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Research output software for energetic materials based on observational modelling 2.1 (RoseBoom2.1©) -Supplementary Information

Table of Contents

1 Detonation velocity and Detonation Pressure 5

1.1 Measurement 5

1.1.1 Measurement of the Detonation Velocity 5

1.1.2 Measurement of the Detonation Pressure 6

1.1.1 Approximation Methods 7

1.2 Density 12

1.2.1 Measurement 12

1.2.2 Theoretical Maximum Density 12

1.2.3 Approximation models for the Density 13

1.3 Heat of Formation 16

1.3.1 Approximation Model by Keshavarz 16

1.3.2 Approximation Model by Joback 18

2 Calculated specific impulse, detonation velocity and detonation pressure for the selected molecules 20

2.1 Categories 90

2.1.1 Neutral Compounds 90

2.1.2 Ionic Compound 138

2.1.3 Zwitterionic Compounds 154

2.1.4 Aromatic Compounds 154

2.1.5 Non-Aromatic Compounds 221

2.1.6 Cyclic Nitramines 232

2.1.7 Acyclic Nitramines 235

2.1.8 Molecules containing nitro groups 251

2.1.9 Molecules not containing nitro groups 305

2.1.10 Diazoles 321

2.1.11 Triazoles 340

2.1.12 Tetrazoles 358

2.1.13 Oxazoles 377

2.1.14 Peroxides 392

2.1.15 Ethers and Esters 394

2.1.16 Nitroxides 400

2.1.17 Molecules with a -$C(NO_2)_3$ Group present 407

2.1.18 Azides 411

2.1.19 Nitrate esters 417

2.2 Comparison of the detonation velocity from RoseBoom2.1 to the EXPLO5 values 422

2.2.1 The detonation velocities of all compounds 422

2.2.2 The detonation velocities of neutral compounds 457

2.2.3 The detonation velocities of ionic compound 481

2.2.4 The detonation velocities of zwitterionic compounds 489

2.2.5 The detonation velocities of aromatic compounds 489

2.2.6 The detonation velocities of non-aromatic compounds 520

2.2.7 The detonation Velocities of cyclic nitramines 525

2.2.8 The detonation velocities of acyclic nitramines 527

2.2.9 The detonation velocities of molecules containing nitro groups 535

2.2.10 The detonation velocities of molecules not containing nitro groups 562

2.2.11 The detonation velocities of diazole 570

2.2.12 The detonation velocities of triazoles 580

2.2.13 The detonation velocities of tetrazoles 590

2.2.14 The detonation velocities of oxazoles 600

2.2.15 The detonation velocities of ethers and esters 608

2.2.16 The detonation velocities of peroxides 610

2.2.17 The detonation velocities of nitroxides 611

2.2.18 The detonation velocities of molecules with a -$C(NO_2)_3$ group present 615

2.2.19 The detonation velocities of azides 618

2.2.20 The detonation velocities of nitrat ester 620

2.2.21 Summary of the detonation velocities 623

2.3 Comparison of the detonation pressure from RoseBoom2.1 to the EXPLO5 values 624

2.3.1 The detonation pressures of all compounds 624

2.3.2 The detonation pressures of neutral compounds 659

2.3.3 The detonation pressures of ionic compounds 683

2.3.4 The detonation pressures of zwitterionic compounds 691

2.3.5 The detonation pressures of aromatic compounds 692

2.3.6 The detonation pressure of non-aromatic compounds 723

2.3.7 The detonation pressures of cyclic nitramines 728

2.3.8 The detonation pressures of acyclic nitramines 729

2.3.9 The detonation pressures of molecules containing nitro groups 737

2.3.10 The detonation pressures of molecules not containing nitro groups 764

2.3.11 The detonation pressures of diazole 772

2.3.12 The detonation pressures of triazoles 782

2.3.13 The detonation pressures of tetrazoles 792

2.3.14 The detonation pressures of oxazoles 802

2.3.15 The detonation pressures of ethers and esters 810
2.3.16 The detonation pressures of peroxides 812
2.3.17 The detonation pressures of nitroxides 813
2.3.18 The detonation pressures of molecules with a -$C(NO_2)_3$ group present 817
2.3.19 The detonation pressures of azides 819
2.3.20 The detonation pressures of nitrate esters 822
2.3.21 Summary of the detonation pressures 824

2.4 Comparison of the densities from RoseBoom2.1 to the literature values 825

2.4.1 The densities of all compounds 825
2.4.2 The densities of neutral compounds 859
2.4.3 The densities of ionic compounds 884
2.4.4 The densities of zwitterionic compounds 891
2.4.5 The densities of aromatic compounds 891
2.4.6 The densities of non-aromatic compounds 922
2.4.7 The densities of cyclic nitramines 927
2.4.8 The densities of acyclic nitramines 928
2.4.9 The densities of molecules containing nitro groups 936
2.4.10 The densities of molecules not containing nitro groups 962
2.4.11 The densities of diazoles 971
2.4.12 The densities of triazoles 980
2.4.13 The densities of tetrazoles 990
2.4.14 The densities of oxazoles 1000
2.4.15 The densities of ethers and esters 1007
2.4.16 The densities of peroxides 1010
2.4.17 The densities of nitroxides 1011
2.4.18 The densities of molecules with -$C(NO_2)_3$ groups present 1014
2.4.19 The densities of azides 1016
2.4.20 The densities of nitrate esters 1019
2.4.21 Summary of the detonation densities 1022

2.5 Comparison of the heat of formation from RoseBoom2.1 to the literature values 1023

2.5.1 The heat of formation of neutral compounds 1023
2.5.2 The heat of formation of aromatic compounds 1047
2.5.3 The heat of formation of non-aromatic compounds 1068
2.5.4 The heat of formation cyclic nitramines 1072
2.5.5 The heat of formation of acyclic nitramines 1074
2.5.6 The heat of formation of molecules containing nitro groups 1078
2.5.7 The heat of formation of molecules not containing nitro groups 1098

2.5.8 The heat of formation of diazoles 1102
2.5.9 The heat of formation of triazoles 1110
2.5.10 The heat of formation of tetrazoles 1115
2.5.11 The heat of formation of oxazoles 1122
2.5.12 The heat of formation of ethers and esters 1125
2.5.13 The heat of formation of peroxides 1127
2.5.14 The heat of formation of molecules with -$C(NO_2)_3$ groups present 1128
2.5.15 The heat of formation of azides 1130
2.5.16 The heat of formation of nitrate esters 1132
2.5.17 Summary of the heat of formation methods 1134
3 RoseIncrements for Joback 1135
4 Literature 1139
5 List of Tables 1146

1 Detonation velocity and Detonation Pressure

1.1 Measurement

1.1.1 Measurement of the Detonation Velocity

Recently, the optic fiber technique has found use in the energetic materials community for the measurement of the detonation velocity. Optic fibers are suited best for this, because they transmit the light signal which is emitted by a detonation front, which then can be measured by a high-speed streak camera (Figure 1) or it can be converted with photodiodes into an electric signal (Figure 2).[1]

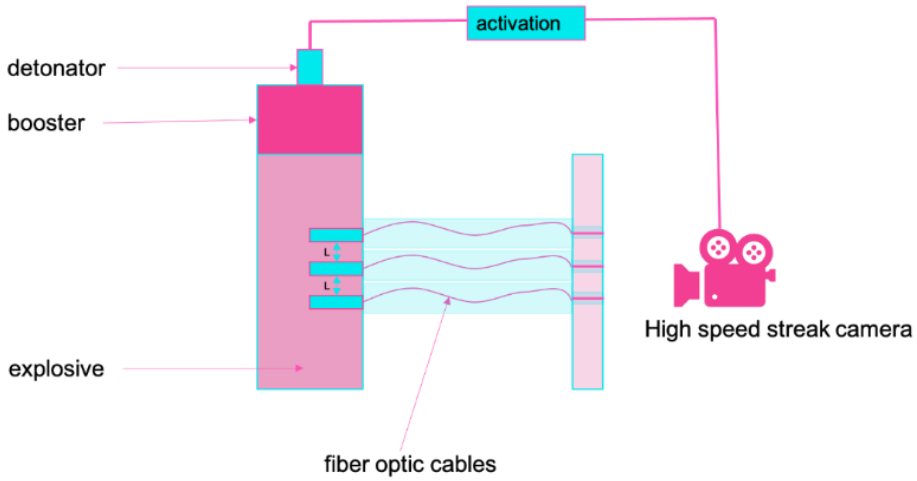


Figure 1. Delineation of the measurement of the detonation velocity using a high-speed streak camera.[1]

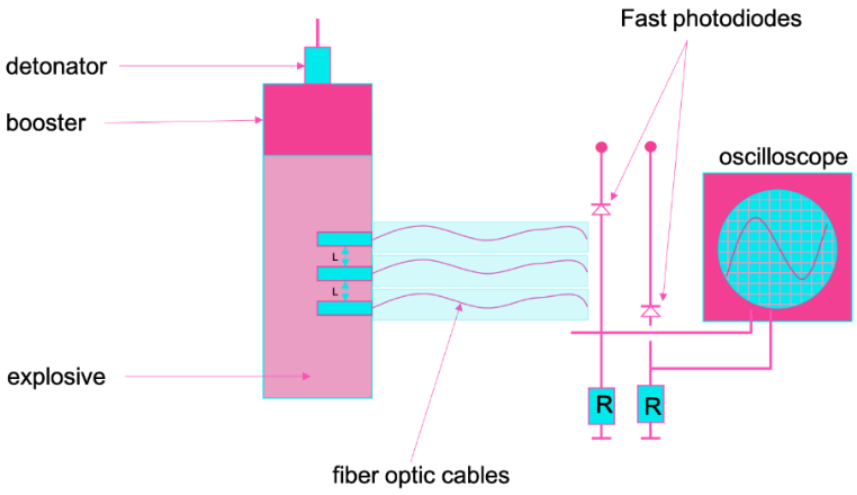


Figure 2. Delineation of the measurement of the detonation velocity using an oscilloscope.[1]

The optic fibers are positioned apart at a fixed length L. From the time it takes the detonation front to travel to the next electric fiber and the distance between them, the velocity can be

calculated. The measurement of the detonation velocity is a lot less complicated than the measurement of the detonation pressure due to which it is used more often. [1]

1.1.2 Measurement of the Detonation Pressure

As already mentioned before, the measurement of the detonation velocity is a lot more complicated than the measurement of the detonation pressure.[2] Generally three methods employing photonic doppler velocimetry can be applied: The flyer plate method, the impedance window method and the detonation electric effect method (see Figure 3).[2]

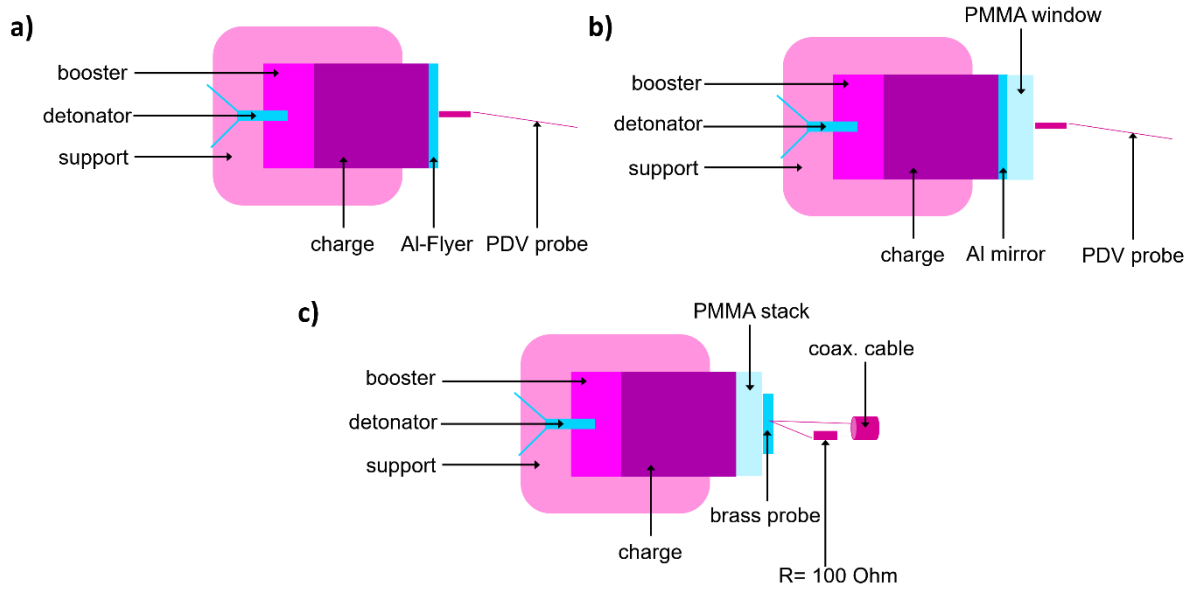


Figure 3. Schematic representation of the different measuring apparatus used for measuring the detonation pressure: a) The flyer plate method (FPM), b) the impedance window method (IWM) and c) the detonation electric effect method (DEM).[2]

The experimental setups of FPM (Figure 3a) and IMW (Figure 3b) are very similar. They consist of a detonator attached to a booster connected to a charge, which is held together by a support. In the FPM setup an Aluminum Flyer Plate is in front of the charge, which gets burst into small pieces when the explosive is ignited.[2] The velocity of the aluminum plate is measured with a photonic doppler velocimetry probe (PDV Probe).[2] For the IMW measurement a thin aluminum foil is glued on the charge with a PMMA window in-between the foil and the PDV probe. [2] The experimental setup of DEM (Figure 3c) is partially the same as the two other methods – part of it consists of a detonator attached to a booster connected to a charge.[2] But this part is then followed by a PMMA stack and a brass probe, which is connected to a resistance of 100 Ohm and a coax. cable.[2] FPM and IMW are supposed to be within a 1% - range with the corresponding values calculated using a thermodynamic code, while DEM is almost 7% lower than the other two methods.[2]

1.1.1 Approximation Methods

1.1.1.1Kamlet and Jacobs

In 1967, Kamlet and Jacobs proposed an equation, from which the C-J Point – which corresponds to the detonation pressure - can be calculated from the density of the explosive ρ_0 [g/cm^3], the numbers of moles of gas released (N), the mass of gas in grams released by the reaction (M) and the heat of explosion (Q) (Equations 1 and 2).[1,3]

$$p_{C\text{-}J}\ [\text{kbar}] = K\rho_0^2\Phi \qquad \textbf{1}$$

$$K = 15.88$$

$$\Phi\ [\text{J/g}] = N(M)^{0.5}(Q)^{0.5} \qquad \textbf{2}$$

Kamlet and Jacobs suggested that this detonation pressure is directly related to the detonation velocity and vice versa (Equation 3). [1,3]

$$D\ [\text{mm}\ \mu\text{s}^{-1}] = A\Phi^{0.5}(1+B\rho_0) \qquad \textbf{3}$$

$$A=1.01$$
$$B=1.30$$

The Kamlet and Jacobs equations illustrate how the detonation pressure and detonation velocity are proportional to the loading density ρ_0. Therefore, it is consequently of great interest to synthesize explosives which have a very high density.[1] Also Kamlet and Jacobs state, that the performance of an explosive directly correlates to the moles of detonation gases released in a reaction.[3] Based on this, Politzer and Murray concluded that the relative composition plays a key role in the performance of an energetic material, because depending on the composition, the volume of the detonation gases varies, hence the intrinsic detonation potential ϕ.[4] This is very interesting, because at first glance the formula only correlates the performance to the density and the heat of formation.

1.1.1.2 Keshavarz-Model for specific impulse, detonation velocity and detonation Pressure

The specific impulse describes the performance of a rocket propulsion system. The larger the specific impulse (I_{sp}) is, the better the performance of the system. Keshavarz published in the '*Central European Journal of Energetic Materials*' in 2018, the following equation for the calculation of the specific impulse (equation 4):[5]

$$I_{sp}(\text{aromatic}) = 2.4205 - 0.074a - 0.0036b + 0.0237c + 0.04d - 0.1001(n\ NH_x) - 0.1466\ (n\ Ar\text{-}1) \quad \mathbf{4}$$

The specific impulse (I_{sp}) is given in $N \cdot s \cdot g^{-1}$; ***n NHx*** and ***n Ar*** correspond to the number of $-NH_2$ or −NH groups and aromatic rings in the molecule respectively. The letter ***a*** represents the number of carbon atoms in the molecule, ***b*** the number of hydrogen atoms, ***c*** the number of nitrogen atoms and ***d*** the number of oxygen atoms. [5]

Applying this equation gave different results for some test compounds compared to the results given in the original papers. Correspondence with Professor Keshavarz via E-Mail elucidated that in the CEJEM paper from 2018 there is an error in the equation and furthermore, according to him, the equations are intended to be applied as is indicated in equations 5 and 6.[6]

$$I_{sp}(\text{aromatic}) = 2.4205 - 0.074a - 0.0036b + 0.0237c + 0.04d - 0.1001n\text{-}NH_x + 0.1466(nAr\text{-}1) \quad \mathbf{5}$$

$$I_{sp}(\text{non-aromatic}) = 2.4205 - 0.074a - 0.0036b + 0.0237c + 0.04d - 0.1001n\text{-}NH_x \quad \mathbf{6}$$

For aromatic compounds, equation 7 should be used and the pink minus in equation 6 should be a plus as shown in equation 7, this was a typo in the publication. Which also makes more sense, because aromatic rings increase the performance of an energetic material due to increasing the heat of formation, while the introduction of amine groups decreases the performance of an energetic material. Even more confusing is, that the part marked in blue should be completely ignored for non-aromatic compounds. After solving these problems, equations 7 and 8 were used for the calculations in this work.[6]

It has also been suggested by Keshavarz *et al.* in 2017, that the detonation velocity and the detonation pressure are empirically related to the specific impulse (see Equations 7 and 8).[1,7]

$$VoD = 1.453\ I_{sp} \cdot \rho_0 + 1.98 \quad \mathbf{7}$$

$$P_{C\text{-}J} = 44.4\ I_{sp} \cdot \rho_0^2 - 21 \quad \mathbf{8}$$

Using equations 9 and 10, the detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J}$) could be calculated based on the specific impulse (I_{sp}) calculated from either equation 7 or 8 and the density ρ_0 [g/cm^3].[5]

1.1.1.3 Stine

The approximation by J.R. Stine is based on the assumption, that the detonation pressure correlates to the relative composition (e.g HMX $C_4H_4N_4O_8$ and RDX $C_3H_3N_3O_6$ have nearly

identical detonation velocities if pressed to the same density, due to their same relative composition), therefore the sum formula can be normalized.[8] By describing a tetrahedron in which the corners are the Carbons, Hydrogens, Oxygens and Nitrogens one can describe the oxygen balance of every explosive as the position of the compound in these coordinates.[8] From this, equation 9 can be derived for explosives with the composition $C_aH_bN_cO_d$.

$$VoD[km/s] = \frac{3.96 + \rho_0\,[g/cm^3(-13.85 \cdot a + 3.95 \cdot b + 37.74 \cdot c + 68.11 \cdot d + 0.6917 * \Delta H_f^0\left[\frac{kcal}{mol}\right](explosive))}{MW} \quad 9$$

This graphic approach helps to clarify which relative compositions give well performing explosives, and which will perform poorly. Moreover, it can be seen which parts of the tetrahedron have been thoroughly investigated and which have been less investigated.[8]

1.1.1.4 Rothstein and Peterson

Rothstein and Petersen describe the detonation velocity as a linear empirical relationship of the composition described as factor F in equation 10.[9]

$$F = \left(\frac{n(O) + n(N) - \frac{n(H)}{2n(O)} + \frac{A}{3} - \frac{n(B)}{1.75} - \frac{n(C)}{2.5} - \frac{n(D)}{4} - \frac{n(E)}{4}}{MW}\text{x } 100\right) - \text{G} \quad 10$$

Where n(O) is the number of oxygen atoms, n(N) the number of nitrogen atoms, n(H) the number of hydrogen atoms, and n(B) the number of oxygen atoms in excess of those which are necessary for conversion of carbon and hydrogen to CO_2 and H_2O. The variable n(C) describes the number of oxygen atoms doubly bonded directly to carbon and n(D) is the number of oxygens singly bonded to carbon. The number of nitrato groups which are either a nitrate ester or a nitric acid salt is described by n(E). The variable G accounts for the aggregate state of the explosive, and is 0.4 for liquid and 1 for solids. A is 1 for aromatic compounds and otherwise 0.[9]

Using a linear regression plot of F against the detonation velocity, the detonation velocity can be predicted as shown in equation 11. [9]

$$VoD[m/s] = \frac{F - 0.26}{0.55} \quad 11$$

From a regression plot of the detonation pressure against the detonation velocity the following relationship is obtained.[10]

$$P_{C-J} = 93.3 \cdot VoD - 456 \qquad 12$$

If the formula given in the publication of 1979 is used, different results are obtained for molecules containing carbonyl and ketone functional groups. This is because the factor n(C) in Equation 10 was forgotten in the original publication but presented in an earlier technical report by the same authors. [10,11]

This empirical relationship is also encoded in the computer program energy, which used to calculate the Rothstein and Petersen values, but is rarely cited.[12] When using the program to calculate compounds from the 1979 publication, different result are obtained for compounds containing oxygens singly bonded to carbon and doubly bonded to carbon than given in the publication (e.g. Sorguyl,,...). This was initially attributed to rounding up of the numbers by the Energy code. But after taking a look at the code of Energy:[12,13]

```
float D2 = 0;
	float D3 = 0;
	float D4 = 0;
	float D5 = 0;
	float D6 = 0;
	float D7 = 0;

	float D8 = float(m_pData->Binary.nSinglyBonded);
	float D9 = float(m_pData->Binary.nDoublyBonded);

	float E1 = float(m_pData->Binary.nNitricAndNatrate);
	float E2 = float(m_pData->Binary.bAromatic);
	float E3 = 0;
	float E4 = 0;
	float E8 = 0;

	float D1 = float(m_pData->Binary.nHydrogenAtoms - m_pData->Binary.nFluorineAtoms);

	if(D1 < 0)
	{
		D3 = -D1;
		D1 = 0;
	}

	D4 = (m_pData->Binary.nCarbonAtoms * 2) + (D1 / 2);
	D5 = D4 - m_pData->Binary.nOxygenAtoms;
```

```
        if(D5 < 0)
                D6 = -D5;

        D7 = D3 + D6;

        // if Liquid
        if(m_pData->Binary.bLiquid)
                E3 = float(.4);

        if(m_pData->Binary.nOxygenAtoms > 0)
                E8 = float(D1 / (2 * m_pData->Binary.nOxygenAtoms));

        E4 = float((m_pData->Binary.nNitrogenAtoms + m_pData->Binary.nOxygenAtoms +
                m_pData->Binary.nFluorineAtoms - E8 + (E2 / 3) - D7 / 1.75 - D8 / 2.5 -
                D9 / 4 - E1 / 5) / m_pData->Binary.nTotalWeight);

        float E5 = float((E4 * 100) - E3);

        m_pData->Binary.nDetonationVelocity = float((E5 - .26) / .55);

        m_pData->Binary.nDetonationPressure = float((93.3 *
                m_pData->Binary.nDetonationVelocity) - 456);
}
```

It becomes clear when comparing it to Equation 10 that the factor n(C) (e.g. D9) and n(D) (e.g. D8) were switched in the program code (marked magenta) in an error. This is why Energy gives different result for compounds having the moieties n(C) or n(D).[13] Switching these factors results in the exact same values being obtained as given in the publication. Therefore, it could be shown, that the different values were not due to rounding errors. It would be interesting to check the two versions prior to the one used in this thesis written for Apple-2 Computers and DOS to check whether this mistake was already present in first versions, or if it occurred when the program was re-written for modern operating systems.[12] However, it was not possible to obtain the older copies. Only the version Energy 1.0 with a copyright from 2005 could be obtained, which was probably programed in 1998 by Kenneth M. Reed.[13] Aside from this significant error in Energy, one obtains results (without any warnings) for compounds without oxygen, because there is an if-clause (marked green) for the term with the number of oxygens in the denominator, defining it only for numbers above zero for oxygens, which is scientifically incorrect to do so, if an empirical model is used which can't be applied to molecules without oxygen.[13]

1.2 Density

1.2.1 Measurement

Generally, there are two commonly used methods to determine the density of a compound: Either from the XRD data or by measuring it using pycnometry. Usually a gas pycnometer is employed in the lab.[14] This works by weighing the sample and putting it into a chamber filled with gas.[14] The displaced volume is then measured by which the weight is divided.[14]

The other method is to calculate the density from crystallographic information using XRD methods. Once the crystal structure is refined it is possible to determine the density using Equation 13: [15]

$$\rho_x \left[\frac{g}{cm^3}\right] = \frac{M \cdot C}{N_A \cdot a^3} \qquad 13$$

Where M is the molar weight of the compound in g/mol, C is a factor specific to the crystal system, a is the lattice parameter and N_A is the Avogadro constant.[15] In theory, the measured density using pycnometery should be the same as the X-ray density.[15] However, the crystal structure is determined using Rietveld refinement which fits an ideal model, not accounting for any crystal defects and impurities.[15] That is why usually the pycnometry density and the X-ray density are different. If the measured density is lower or higher than the X-ray density this is an indication of Schottky-Defects or interstitials respectively. While if the two densities are the same it is an indication of Frenkel defects.[15]

1.2.2 Theoretical Maximum Density

Due to Compton scattering, XRD data is often collected at a temperature below room temperature to reduce movement of the atoms which leads to more defined Bragg-peaks in the diffractograms.[16] The problem with this is, as mentioned before, that often times the density of explosives is approximated according to Equation 13. At lower temperatures the density is always higher than at higher temperatures. This means that it can be problematic to calculate the detonation parameters at room temperature if the X-ray density, measured at a lower temperature is used. To convert the density at any given temperature to the density at room temperature equation 14 can be used.[1]

$$\rho_{298\,K}\left[\frac{g}{cm^3}\right] = \frac{\rho_T}{1 + a_v(298 - T_0)} \quad (14)$$

The density at 298 K can be calculated by taking the density ρ_T measured at temperature T_0 and dividing it by the factor $a_v = 1.5 \cdot 10^{-4}\ K^{-1}$ multiplied by the temperature difference between room temperature and the temperature the compound was measured at.[1] With this formula it is possible to obtain the density at room temperature which will give more accurate results when calculating the detonation parameters.[1] This formula was programmed into RoseBoom2.1© as well, because it is quite common that the X-ray density is given in the literature at the temperature at which it was measured, which is often low at temperature.[1]

1.2.3 Approximation models for the Density

1.2.3.1 Keshavarz Model for Ionic Compounds

The densities for ionic energetic compounds with the general formula $C_aH_bN_cO_d$ were correlated from a set of 100 experimental densities and can be predicted according to equation 16: [17]

$$\rho\left[\frac{g}{cm^3}\right] = 2.148 - \frac{7.767\mathrm{a} + 6.261\mathrm{b} + 4.154\mathrm{c}}{\mathrm{MW}} \quad (15)$$

The interesting approach about this equation is, that it states, the density decreases for ionic compounds with a higher atom count of carbon, hydrogen and nitrogen but the existence of oxygen is almost irrelevant for the correct prediction of the density, it only needs to be accounted for in the molar weight. This suggests, that when synthesizing new ionic explosives, the focus should be on synthesizing small molecules which have a higher density due to the higher latent crystal strain energy.[17] The deviation of the results from this equation and the measured densities (ρ) is only 5.4 %, which makes this equation a promising candidate for implementation in RoseBoom2.1©.[17]

1.2.3.2 Model for Azides

In another recent model developed in 2016 by Sheibani *et al.* the density approximation was derived from several selected example compounds in which the density than is derived from the correlation between the most important groups which had the biggest impact on the density

in the “pool” of selected molecules. The following correlation described in equation 17 was derived for the density ρ of $C_aH_bN_cO_d$ compounds:

$$\rho\left[\frac{g}{cm^3}\right] = 1.21 + 0.1c + 0.26\,\frac{d}{a} - 0.1\,\frac{a}{c} + 0.04\,\rho^{+} - \,0.04\,\rho^{-} \qquad 16$$

The factors ρ^+ and ρ^- describe the contribution of the following molecular moieties to the density (Table 1 and Table 4):

Table 1. Molecular moieties which increase or decrease ρ^+:

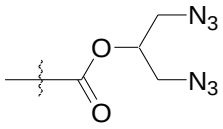
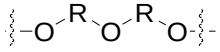
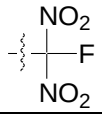
Moieties increasing or decreasing ρ^+:	Value of ρ^+:
Two substituents of: 	0.1
General formula: 	0.5

Table 2. Molecular moieties which increase or decrease ρ^-.

Moieties increasing or decreasing ρ^-:	Value of ρ^-:
	1.0
>C(NO_2)-CH_2-O-	2.0
Acyclic azido nitramines with more than one nitramine function	0.5
Cyclic azido nitramines with more than one nitramine function	2.0

This model seems very promising with a coefficient of determination of 97.1 %,[18] which makes it a promising candidate for implementation in RoseBoom2.1©.

1.2.3.3 Keshavarz Model for all other Compounds

The general model approach by Keshavarz is similar to the one explained in the last chapter, and is based on an empirical relationship between the elemental composition and the presence of certain molecular fragments that increase or decrease the molecular packing. The equation for the general method for the density ρ of $C_aH_bN_cO_d$ compounds is as follows:[19]

$$\rho\left[\frac{g}{cm^3}\right] = 1.753 - \frac{10.238 \cdot \mathrm{b} + 9.908 \cdot}{\mathrm{MW}}\mathrm{c} + 0.0992 \cdot \mathrm{IMP} - 0.0845 \cdot \mathrm{DMP} \quad (17)$$

The moieties which influence IMP and DMP are described in Table 4 and Table 5.[19]

Table 3. Molecular moieties which influence IMP. [19]

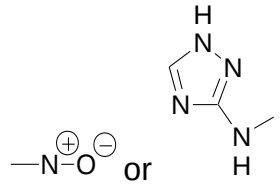
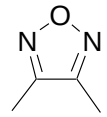
Molecular moieties affecting IMP	IMP	Exceptions
-OH or -ONH_4	1.0	
Same number of -NH_x and nitro groups both attached to carbocyclic aromatic rings	1.8	
Higher number of -NH_x than nitro groups attached to carbocyclic aromatic rings	0.9	
One:  or or more than two 	1.0	The presence of -NH- between two aromatic rings.
Cyclic nitramines	1.0	
$(CH_2ONO_2)_4$-	1.5	
$(CH_2ONO_2)_3$-	0.5	
Non-aromatic cyclic compounds containing nitro groups	0.9	

Table 4. Molecular moieties influencing IMP. [19]

Molecular moieties affecting DMP	DMP	Exceptions
Nitrobenzenes with one benzene ring	0.5	b=0
-O- between two benzene rings	2.3	
-N=N- between two benzene rings	1.0	
$C(H)_{4-n}(NO_2$ or $ONO_2)_n$ or an azide	3.3	
$C_n(H)_{2n+1}(NO_2$ or $ONO_2)_2$ and if two nitrate or nitrogroups are attached to the same carbon	2.2	
$C_n(H)_{2n+1}(NO_2$ or $ONO_2)_2$ and if two nitrate or nitrogroups are attached to the same carbon	1.5	
Non-aromatic compounds with -CH_2-NO_2 and -CH_2-ONO_2 and with additional oxygens aside from these	0.6	

Table 5. Compositions affecting IMP and DMP. [19]

General formula	n	Value of IMP	Value of DMP
$C_{n+1}(H)_{2n+3}(NO_2$ or $ONO_2)$	1	0.0	1.9
	2	0.0	1.0
	3	0.0	0.0
	≥4	1.0	0.0
$(C_nH_{2n+1})_2NNO_2$	1	0.0	2.1
	2	0.0	0.0
	≥3	1.4	0.0

This model also seems to be very promising with a coefficient of determination of 95.3 % for the test molecules described in the publication by Keshavarz *et al.*[19]

1.3 Heat of Formation

1.3.1 Approximation Model by Keshavarz

Keshavarz *et al.* suggested a model with an coeffient of determination of 98.1 % based on an empirical relationship between the heat of formation, the elemental composition and the presence of different molecule groups and structural moieties for $C_aH_bN_cO_d$ compounds (equation 19).[20]

$$\Delta_f H^0_{(explosive)}\,[kJ/mol] = -111.4 + 33.11a - 28.84b + 86.80c + 62.03d - 79.25\,(\Delta_f H^0_{add,DHC} + \Delta_f H^0_{nonadd,DHC}) + 153.3\,(\Delta_f H^0_{add,IHC} + \Delta_f H^0_{nonadd,IHC}) \quad (18)$$

The variables $\Delta_f H^0_{add,DHC}$, $\Delta_f H^0_{nonadd,DHC}$, $\Delta_f H^0_{add,IHC}$ and $\Delta_f H^0_{nonadd,IHC}$ are obtained from the values given in Table 6 to Table 9.[20]

Table 6. Molecular moieties influencing $\Delta_f H^0_{add,DHC}$. [20]

Molecular moieties	$\Delta_f H^0_{add,DHC}$
Ar-OH	1.2
R-OH	1.0
Two or more $-NH_2$ or -C-NH- groups	0.6
Ar-NH-Ar	0.7
1,2,4-triazole	1.4
-COOH (or $-ONH_4$, -NHCOO-, -NHCONH-, -NHCOC- and -COCO-)	2.8
-COOOCO-	2.5
-NHC(=NH)NH.	1.7
-COO-C-	1.4
Cyclic or acyclic ketone	1.2
Fluorine atoms bonded to non-araomatic carbons	$6n_{CF_2}$-2 n_{CF_2}= number of CF_2 groups

-CH_n-NH_2 (or –$(CH_n)_2$-NH, cyclic –$(CH_n)_3$-N, -NH_2 and NH_4^+	1.5
-C(=O or NH)-NH_2	4.2

Table 7. Molecular moieties influencing $\Delta_f H^0_{nonadd,DHC.}$ [20]

Molecular moieties	$\Delta_f H^0_{nonadd,DHC}$
Acyclic ether if there is no Ar-O-Ar or Ar-O-R	0.5
Six-membered cyclic ether	1.7
-O-C-O-C-O-	3.4
Monofluoro derivatives of R-F	2.0

Table 8. Molecular moieties influencing $\Delta_f H^0_{add,IHC.}$ [20]

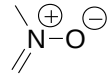
Molecular moieties	$\Delta_f H^0_{add,IHC}$
-N=N- (or -N-N-N- and -N-N-N-N-)	0.6
	0.7
Attachment of -NO_2 to a non-aromatic four-membered ring	0.45
For energetic compounds containg only carbocyclic aromatic rings	$(n_{ar} - 1) \cdot 0.3$

Table 9. Molecular moieties influencing $\Delta_f H^0_{nonadd,IHC.}$ [20]

Molecular moieties	$\Delta_f H^0_{nonadd,IHC}$
Acyclic nitramine	0.5
Cyclic nitramine or a nitroso amine	0.8
More than one -NO_2 group bonded to a aliphatic carbon	0.6
-N_3 group bonded to a carbocyclic aromat	0.7
Only R-ONO_2 is present (except -NO_2)	0.5
Other groups than R-ONO_2 are present	0.1
Mono and polynitrobenzene	0.7
-ONO (nitrite)	0.5
-O-OH	0.5
-CN	0.4
-NH-NO_2 (or -NF-NO_2)	0.2
-$C(NO_2)_3$	0.8
Linear mononitroalkanes	0.6
Hydrogen-free nitroalkanes	2.2
Furan derivative	0.25
Cyclic ethers smaller than a six membered ring	0.5
Attachment of methyl groups to an aromatic ring	0.5
Attachment of longer carbon-chain alkyl groups or -CH=CH- to an aromatic ring	0.6
Peroxides with the general formula R_1-O-O-R_2 where R_1 and R_2 have <4 atoms.	0.7
Monochloro derivative of Ar-Cl	0.2
Monochloro R-Cl	0.5
Monobromo derivative of R-Br	0.8

Molecular moieties	$\Delta_f H^0_{nonadd,IHC}$
Monoiodo derivarive R-I	1.2

It is important to note, that the numbers for $\Delta_f H^0_{add,DHC}$ and $\Delta_f H^0_{add,IHC}$ are multiplied with the number of times the corresponding group is presented in the molecule.[20] For $\Delta_f H^0_{nonadd,DHC}$ and $\Delta_f H^0_{nonadd,IHC}$, the numbers from the table are not multiplied by the number of times the group is present. This method seems to be a very promising alternative for CBS-4M calculations and was therefore implemented into RoseBoom2.1©.[20]

1.3.2 Approximation Model by Joback

The Joback Method[21] is a very well-known group additivity method, where the heat of formation is determined by equation 20, where the increments from Table 11 are summed up.

$$\Delta_f H^0(\text{explosive}) \left[\frac{\text{kJ}}{\text{mol}}\right] = 65.29 + \sum inc \qquad 19$$

Table 10 . Molecular moieties and their values in the Joback method.

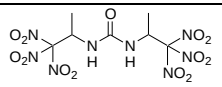
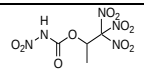
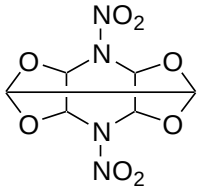
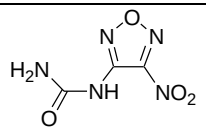
Molecular moieties	Increment (inc)
Non-ring increment	
$-CH_3$	-76.45
$-CH_2-$	-20.64
>CH-	29.89
>C<	82.23
$=CH_2$	-9.63
=CH-	37.97
=C<	83.99
=C=	142.14
≡CH	79.30
≡C-	115.51
ring increment	
$-CH_2-$	-26.80
>CH-	8.67
>C<	79.72
=CH-	2.09
=C<	46.43
Halogen increm46.43ents	
-F	-251.92
-Cl	-71.55
-Br	-29.48
-I	21.06

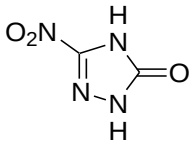
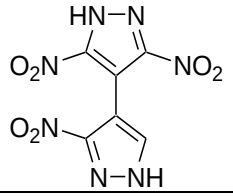
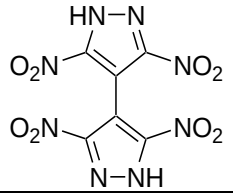
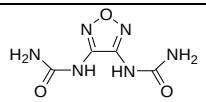
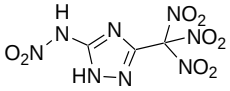
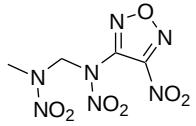
Oxygen increments	
-OH (alcohol)	-208.04
-OH (phenol)	-221.65
-O- (non-ring)	-132.22
-O- (ring)	-138.16
>C=O (non-ring)	-133.22
>C=O (ring)	-164.50
-CH=O	162.03
-C(O)OH	-426.72
-C(O)-O-	-337.92
=O (except above)	-247.61
Nitrogen incements	
$-NH_2$	-22.02
>NH (non-ring)	53.47
>NH (ring)	31.65
>N- (non-ring)	123.34
=N- (non-ring)	23.61
=N- (ring)	55.52
=NH	93.70
-CN	88.43
$-NO_2$	-66.57

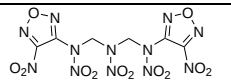
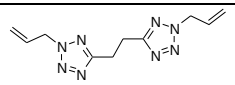
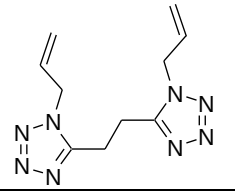
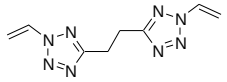
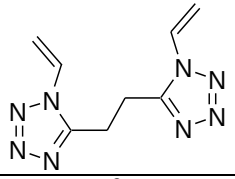
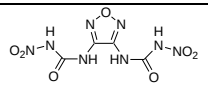
2 Calculated specific impulse, detonation velocity and detonation pressure for the selected molecules

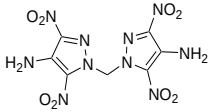
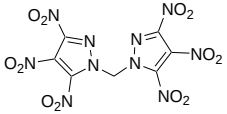
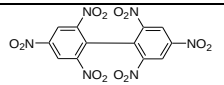
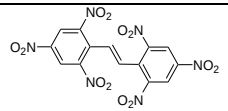
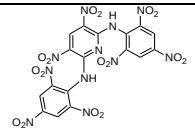
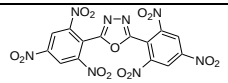
The calculated compounds and results are displayed in Table 1.

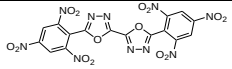
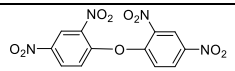
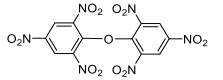
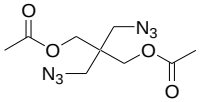
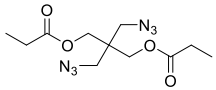
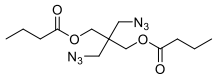
Table 11. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C-J)}$, heat of formation and density for the selected molecules at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

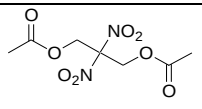
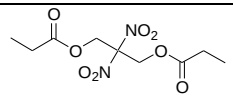
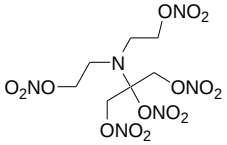
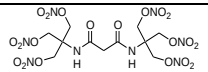
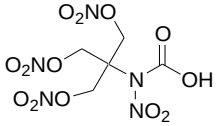
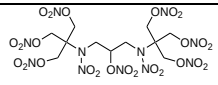
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
1	[22]		$C_7H_{10}N_8O_{13}$	-23.2	27.1	1.82			1.697	1.712	-367	-379.3	-354.36	2.3759	8263	328	8400	328	8547	326	8388	8399	327	1.704	8469	321
2	[22]		$C_4H_5N_5O_{10}$	-2.8	24.7	1.58			1.747	1.792	-368	-332.1	-431.07	2.5249	7777	259	8582	345	7953	259	8006	7912	259	1.770	7680	228
3	[23] [24]		$C_6H_6N_4O_8$	-42.7	21.4	1.985			1.769	2.007	-541	-35.5	-372.31	2.3697	8822	394	6896	187	8139	311	7832	8092	319	1.888	8615	343
4	[25]		$C_3H_3N_5O_4$	-32.4	40.5	1.68			1.862	1.811	63	-134.6	49.68	2.2660	7511	263	8516	339	7751	255	7979	7939	286	1.837	7759	236

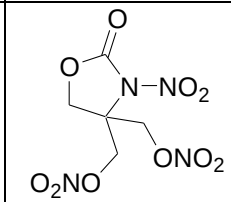
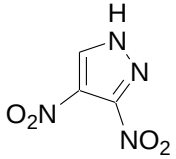
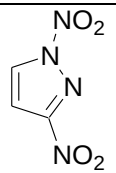
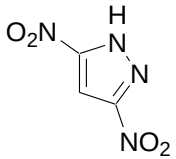
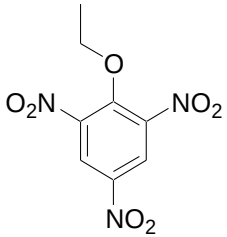
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
5	[23] [26]		$C_2H_2N_4O_3$	-24.6	43.1	1.916			1.900	1.882	-97	-163.7	48.90	2.2799	8327	351	8753	361	8081	300	8396	8389	337	1.891	8543	305
6	[27]		$C_6H_3N_7O_6$	-44.6	36.4	1.855			1.897	1.854	224.9	141.1	277.16	2.3180	8228	333	8365	324	8019	290	7997	8123	313	1.876	8256	286
7	[27]		$C_6H_2N_8O_8$	-25.5	35.7	1.820			1.940	1.927	227.8	132.6	254.93	2.4253	8394	336	8908	375	8232	303	8379	8478	338	1.933	8520	311
8	[25]		$C_4H_6N_6O_3$*	-68.8	45.2	1.95			1.742	1.697	-162	-261.1	30.18	1.9647	7547	311	6885	186	7281	246	7590	7326	248	1.720	8283	245
9	[28]		$C_3H_2N_8O_8$*	5.8	40.3	1.91			2.064	1.957	269	278.6	173.26	2.5007	8920	384	9750	454	9397	406	9580	9409	414	2.010	9250	369
10	[29]		$C_4H_5N_7O_7$	-21.3	37.3	1.74			1.921	1.767	265	172.9	83.91	2.5524	8433	322	9184	401	8579	320	8644	8710	348	1.844	8596	322

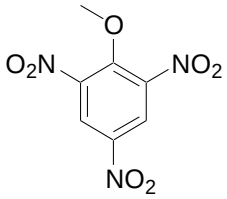
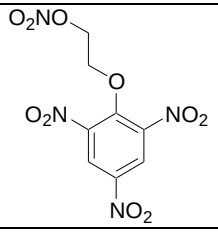
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
11	[29]		$C_6H_4N_{12}O_{12}$	-7.3	38.5	1.90			1.932	1.884	603	391.8	195.66	2.8731	9912	440	9600	440	9248	392	9364	9531	424	1.908	9334	393
12	[30]		$C_{10}H_{14}N_8^+$	-175,4	45.5	1.2				1.255	605	602.3	661.55	1.9663	5408	105	-	-	4514	68	5243	5055	86	-	6148	99
13	[30]		$C_{10}H_{14}N_8^+$	-175.4	45.5	1.2				1.255	622	602.3	661.55	1.9663	5408	105	-	-	4535	69	5257	5067	87	-	6167	99
14	[30]		$C_8H_{10}N_8^+$	-154.0	51.4	1.4				1.324	635	651.5	702.83	2.1287	6310	164	-	-	5284	105	5843	5812	134	-	7109	148
15	[30]		$C_8H_{10}N_8^+$	-154.0	51.4	1.4				1.324	643	651.5	702.83	2.1287	6310	164	-	-	5296	106	5852	5819	135	-	7132	149
16	[25]		$C_4H_2N_8O_7$	-17.4	34.1	1.87			1.892	1.875	-22	-183.9	116.31	2.1793	7901	317	8908	375	8487	327	8671	8492	340	1.883	8685	322

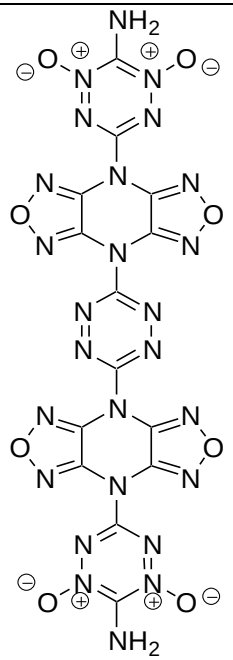
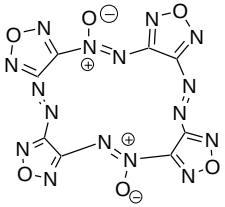
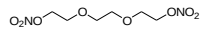
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
17	[31]		$C_7H_6N_{10}O_8$	-40.2	39.1	1.802			1.858	1.838	205	224.0	320.11	2.3843	8223	323	8642	350	8016	285	8132	8253	319	1.848	8332	296
18	[31]		$C_7H_2N_{10}O_{12}$	-11.5	33.5	1.934			1.941	1.933	379	186.3	231.01	2.7589	9733	437	9201	402	9029	377	9094	9264	405	1.937	9304	391
19	[32] [26]		$C_{12}H_4N_6O_{12}$	-52.8	19.8	1.694			1.797	1.776	61.1	100.3	48.67	2.2869	7609	270	7314	226	7355	231	7298	7394	242	1.786	7500	244
20	[32]		$C_{14}H_6N_6O_{12}$	-67.5	18.7	1.74			1.749	1.704	78.2	200.8	86.64	2.1317	7369	266	6830	181	7276	230	7116	7148	226	1.727	7612	243
21	[32]		$C_{17}H_7N_{11}O_{16}$	-55.4	24.8	1.757			1.813	1.776	43.7	208.3	265.80	2.1310	7420	271	7462	240	7421	241	7379	7420	251	1.794	7757	251
22	[32] [33]		$C_{14}H_4N_8O_{13}$	-55.3	22.8	1.77			1.831	1.779	266.55	232.1	114.41	2.3729	8083	309	7350	230	7543	250	7478	7614	263	1.805	7840	279

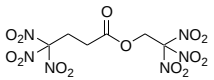
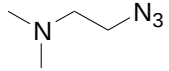
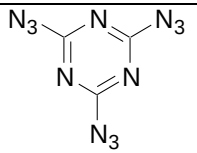
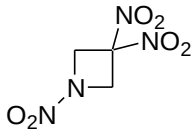
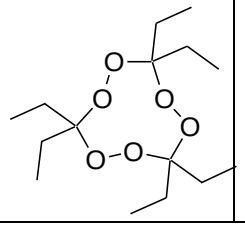
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
23	[32]		$C_{16}H_4N_{10}O_{14}$	-57.1	25.0	1.837			1.857	1.781	197.6	409.9	180.15	2.4589	8543	347	7377	232	7547	256	7486	7738	278	1.819	8030	273
24	[34]		$C_{12}H_6N_4O_9$	-82.2	16.0	1.689			1.606	1.667	-168.1	55.1	-39.09	2.1123	7290	260	6277	130	6827	202	6623	6754	197	1.637	6582	168
25	[34]		$C_{12}H_4N_6O_{13}$	-47.3	19.1	1.70			1.710	1.792	-132.9	-69.0	-83.55	2.3269	8201	329	7449	239	7794	273	7617	7765	280	1.746	7634	250
26	[35]		$C_9H_{14}N_6O_4$*	-124.3	31.1	1.21		1.226	1.443	1.280	-242	-65.3	-108.82	2.0063	5507	109	4203	-64	4912	81	5434	4828	28		5420	79
27	[35]		$C_{11}H_{18}N_6O_4$*	-144.8	28.2	1.16		1.171	1,335	1.230	-296	-114.5	-150.10	1.8439	5088	89	3458	-133	4553	68	5124	4556	12	1.316	5292	72
28	[35]		$C_{13}H_{22}N_6O_4$*	-161.8	25.8	1.09		1.123	1.245	1.192	-349	-163.6	-191.38	1.6815	4648	68	2842	-191	4185	54	4852	4130	-34	1.251	5048	62

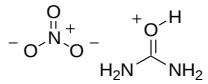
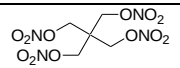
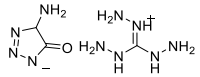
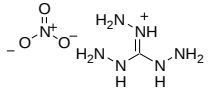
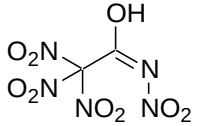
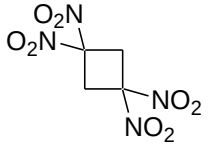
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
29	[35]		$C_7H_{10}N_2O_8$*	-70.3	11.2	1.33			1.423	1.478	-872	-- 810.8	-684.66	2.2339	6297	154	5396	47	5796	122	5916	5851	108	1.347	5683	100
30	[35]		$C_9H_{14}N_2O_8$*	-97.8	10.1	1.22			1.309	1.386	-926	-859.9	-725.94	2.0715	5652	116	4641	-23	5224	93	5435	5238	93	1.348	5111	75
31	[36]		$C_7H_{12}N_6O_{15}$	-29.5	20.0	1.69			1.602	1.632	-530.6	-543.4	-843.93	2.6015	8368	309	8008	291	8393	301	8158	8232	300	1.617	8059	-
32	[36]		$C_{11}H_{16}N_8O_{20}$	-27.8	19.3	1.67			1.606	1.632	-1044.4	-1024.8	-1095.99	2.3383	7654	269	7548	248	7911	265	7726	7710	261	1.619	7891	-
33	[36]		$C_6H_9N_5O_{13}$	-15.6	20.3	1.73			1.788	1.775	-614.8	-683.3	-869.55	2.6638	8307	333	8209	310	8495	312	8356	8434	318	1.781	8048	-
34	[36]		$C_{11}H_{17}N_{11}O_{25}$	-12.5	21.9	1.80			1.710	1.726	-637.8	-695.5	-1180.47	2.8060	9319	383	8384	326	8869	349	8622	8798	353	1.718	8550	328

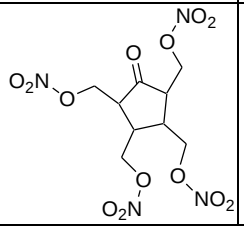
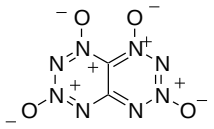
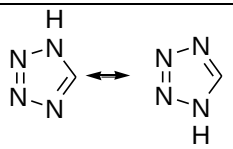
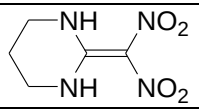
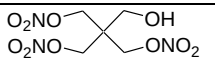
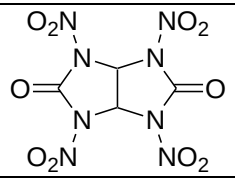
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
35	[36]		$C_5H_6N_4O_{10}$	-17.0	19.9	1.84			1.775	1.780	-752.4	-318.5	-314.69	2.5237	8727	358	7679	260	8165	300	8008	8145	306	1.777	8266	313
36	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.79			1.874	1.849	124.3	29.3	117.27	2.3460	8082	313	8824	301	8257	226	8336	8375	327	1.861	8426	306
37	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8459	308
38	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.78			1.874	1.849	73.2	29.3	117.27	2.346	8048	309	8824	367	8113	290	8215	8300	322	1.861	8279	289
39	[26]		$C_8H_7N_3O_7$	-77.8	16.3	1.554			1.590	1.590	-154.5	-222.2	-170.83	2.1544	6845	210	6303	132	6741	184	6598	6622	175	1.590	6545	191

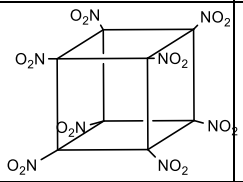
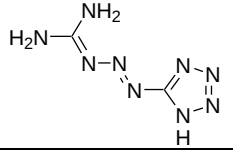
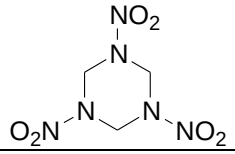
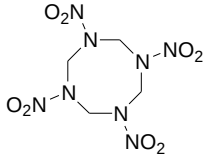
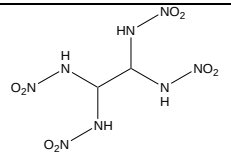
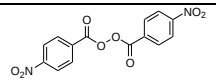
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
40	[38]		$C_7H_5N_3O_7$	-62.5	17.3	1.7			1.665	1.665	-187.2	-197.6	-150.19	2.2356	7502	266	6800	178	7263	226	7059	7156	223	1.665	7035	204
41	[38]		$C_8H_6N_4O_{10}$	-45.3	17.6	1.723			1.684	1.707	-277.4	-277.3	-313.81	2.3017	7742	282	7290	224	7684	255	7476	7548	254	1.696	7470	237

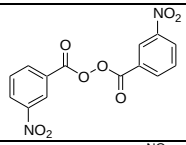
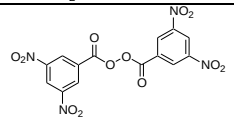
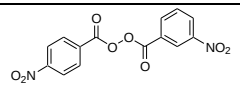
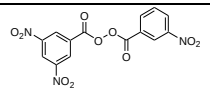
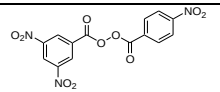
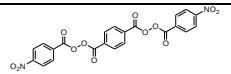
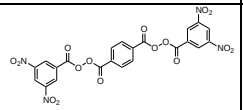
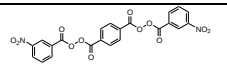
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
42	[38]		$C_{14}H_4N_{26}O_8$	-53.0	54.8	1.903				1.893	2128	2178.2		2.9857	10236	459	8854	370	8184	307	8559	8958	379	-	8700	320
43	[38] [39]		$C_8N_{16}O_6$	-38.4	53.8	1.761				1.786	1702.27	1722.0		2.8875	9368	377	9283	410	8217	296	8696	8891	361	-	9368	377
44	[38]		$C_6H_{12}N_2O_8$	-66.6	11.7	1.344			1.273	1.452	-656.9	-605.8	-717.57	2.3007	6473	164	5848	90	6468	153	6354	6286	136	1.362	6498	143

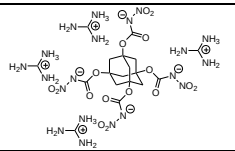
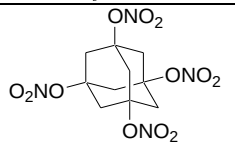
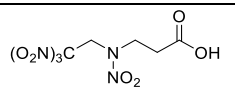
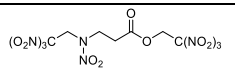
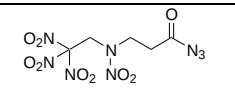
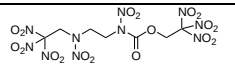
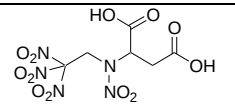
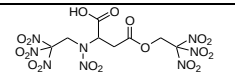
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
45	[38]		$C_6H_6N_6O_{14}$	-4.1	21.8	1.78			1.748	1.780	-421.7	-516.8	-482.52	2.6571	8852	353	8537	340	8658	330	8534	8645	341	1.764	8616	335
46	[24]		$C_4H_{10}N_4$	-182.2	49.1	0.933		1.140		1.109	277	279.1	239.44	2.1833	4940	63	-	-	4252	49	5168	4787	56	1.124	5730	73
47	[24] [40]		$C_3N_{12}^*$	-47.0	82.3	1.73				1.563	914.6/1053	1412.8	1100.11	2.4829	8221	309	-	-	7403	237	8458	8027	273	-	7866	226
48	[41]		$C_3H_4N_4O_6$	-16.7	29.2	1.841			1.935	1.823	62.2	16.2	-8.72	2.5189	8718	358	8676	354	9047	368	8905	8836	360	1.879	8947	365
49	[42]		$C_{15}H_{30}O_8^*$	-198.3	0.0	1.25				1.124	-583.8	-744.8	-1104.05	1.4425	4600	79	714	-389	4462	69	4599	3594	-120	-	6322	114

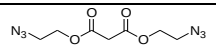
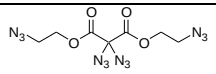
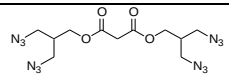
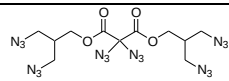
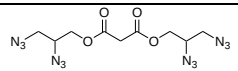
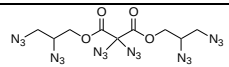
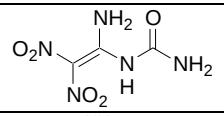
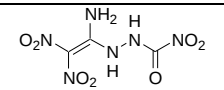
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
50	[43]		$CH_5N_3O_4$	-6.5	17.7	1.655	1.729			1.709	-546.7	-464.3		2.3594	7705	271	8428	330	7218	221	7777	7782	274	1.719	7958	236
51	[44]		$C_5H_8N_4O_{12}$	-10.1	17.7	1.76			1.768	1.706	-538.48	-497.1	-727.20	2.5965	8620	336	8077	298	8652	328	8375	8431	321	1.737	8525	316
52	[45]		$C_3H_{12}N_{10}O^*$	-86.2	68.6	1.569	1.463			1.555	743.27	310.0		1.7316	5928	168	-	-	7715	242	8102	6342	146	1.509	9492	318
53	[38]		$CH_9N_7O_3^*$	-33.5	58.7	1.509	1.590			1.714	-69.2	-1073.4		1.9994	6364	181	8827	368	7487	222	8013	7673	257	1.652	8893	279
54	[38]		$C_2HN_5O_9^*$	30.1	29.3	1.87			2.017	1.937	-134.7	-78.2	-216.20	2.7474	9325	392	8176	307	9370	395	9506	9094	365	1.977	7503	230
55	[38]		$C_4H_4N_4O_8$	-13.6	23.7	1.83			1.837	1.819	-84	124.6	-92.15	2.5249	8730	359	8575	344	8873	354	8696	8718	352	1.828	8646	339

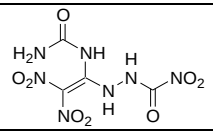
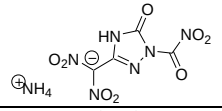
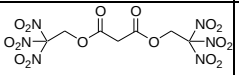
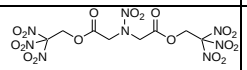
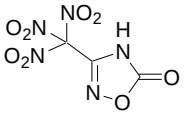
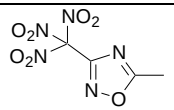
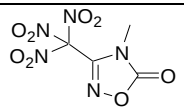
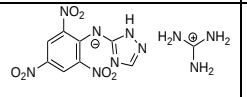
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
56	[38]		$C_8H_{12}N_2O_{13}$	-45.8	-8.3	1.55			1.486	1.622	-676.2	-698.4	-892.82	2.3261	7219	227	6786	177	7308	216	7108	7105	207	1.554	7518	203
57	[46]		$C_2N_8O_4$	0.0	56.0	1.96				2.063	206	401.1		2.7687	9865	451	10734	545	8751	357	9379	9682	451	-	9287	368
58	[38]		CH_2N_4*	-68.5	80.0	1.529				1.582	237.07	303.2	268.59	2.3340	7165	221	-	-	6781	184	7710	7219	202	-	7831	210
59	[47]		$C_2H_6N_4O_4$	-85.0	29.8	1.65			1.618	1.567	61.8	-80.6	159.51	2.0763	6958	230	6292	131	7331	226	7163	6936	196	1.593	7906	232
60	[38]		$C_5H_9N_3O_{10}$	-26.6	15.5	1.54			1.622	1.642	-560.7	-629.2	-736.45	2.4892	7550	241	7540	248	7683	237	7484	7564	242	1.632	7777	253
61	[38]		$C_4H_2N_8O_{10}$*	5.0	34.8	2.04			2.035	2.065	41.8	-76.1	-30.47	2.7069	10004	479	8856	370	9548	434	9617	9506	428	2.050	9946	402

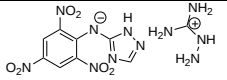
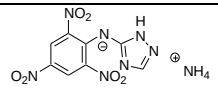
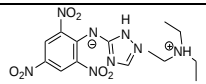
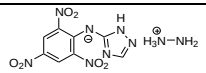
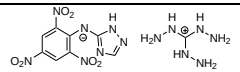
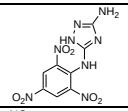
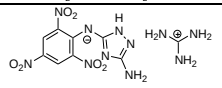
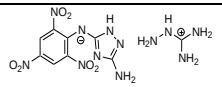
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
62	[38]		$C_8N_8O_{16}$	0.0	24.1	1.979			2.013	2.202	413.8 594	407.3	585.82	2.6581	9623	441	8928	377	9469	420	9443	9366	413	2.107	9562	422
63	[38]		$C_2H_5N_9$*	-67.0	81.3	1.64				1.538	382	633.1	423.71	2.1675	7964	326	-	-	7514	259	8526	8001	292	1.768	9729	338
64	[26]		$C_3H_6N_6O_6$	-21.6	37.8	1.806			1.843	1.797	86.3	40.2	77.92	2.5591	8237	341	8940	378	8771	340	8765	8773	353	1.820	8882	340
65	[38]		$C_4H_8N_8O_8$	-21.6	37.8	1.903			1.843	1.782	92.8	65.1	81.13	2.6053	9184	398	9042	388	9149	384	9077	9113	390	1.812	9286	381
66	[38]		$C_2H_6N_8O_8$	5.9	41.5	1.87			1.819	1.889	48.5	-- 179.6	75.67	2.3601	8393	345	9659	445	9636	421	9720	9352	404	1.854	8760	392
67	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.61			1.566	1.547	-415	-353.4	-370.27	1.8697	6354	194	4197	-64	5752	137	5577	5470	134	1.556	6129	130

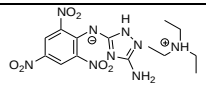
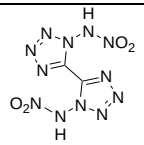
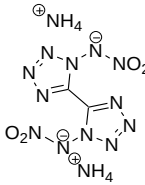
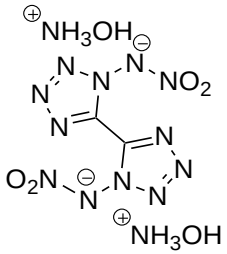
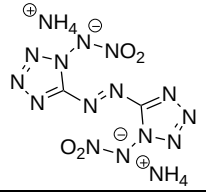
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
68	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.608			1.566	1.547	-406	-- 353.4	-370.27	1.8697	6354	194	4197	-64	5757	137	5582	5471	134	1.556	6130	130
69	[48]		$C_{14}H_6N_4O_{12}$	-72.0	13.3	1.718			1.701	1.686	-410	-358.0	-414.73	2.0843	7183	252	5893	94	6853	202	6662	6648	183	1.694	7087	200
70	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.67			1.566	1.547	-404	-353.4	-370.27	1.8697	6517	211	4197	-64	5909	148	5657	5570	148	1.556	6395	90
71	[48]		$C_{14}H_7N_3O_{10}$	-91.2	11.1	1.70			1.642	1.622	-405	-361.8	-392.50	1.9770	6863	233	5158	25	6451	178	6219	6173	145	1.632	6796	180
72	[48]		$C_{14}H_7N_3O_{10}$	-91.2	11.1	1.69			1.642	1.622	-405	-361.8	-392.50	1.9770	6835	230	5158	25	6425	176	6204	6156	144	1.632	6757	170
73	[48]		$C_{22}H_{12}N_2O_{12}$	-122.5	5.6	1.46			1.545	1.532	-761	-604.1	-776.91	1.5699	5310	128	3642	-116	5179	104	5189	4830	58	1.538	5315	90
74	[48]		$C_{22}H_{10}N_4O_{16}$	-90.1	9.6	1.51			1.646	1.631	-752	-620.9	-821.37	1.7845	5895	160	4929	4	5897	138	5882	5651	101	1.639	6007	130
75	[48]		$C_{22}H_{12}N_2O_{12}$	-122.5	5.6	1.45			1.545	1.532	-752	-604.1	-776.91	1.5699	5288	126	3642	-116	5980	138	5910	5205	74	1.538	5284	90

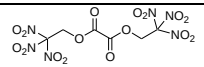
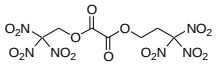
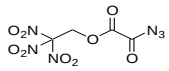
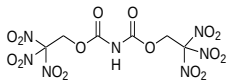
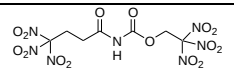
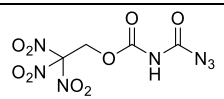
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
76	[49]		$C_{18}H_{44}N_{20}O_{16}$*	-84.4	35.2	1.54	1.551			1.561	-1628	-1313.0		0.8429	3538	68	6836	182	6308	160	6589	5900	137	1.556	6809	159
77	[49]		$C_{10}H_{12}N_4O_{12}$	-58.9	14.7	1.659			1.534	1.705	-581	-446.9	-568.79	2.2121	7348	253	6556	156	7435	234	7121	7115	214	1.619	7282	229
78	[50]		$C_5H_7N_5O_{10}$	-18.8	23.6	1.72			1.778	1.711	-463.1	-389.9	-472.89	2.5438	8337	313	8093	299	8150	287	8041	8155	300	1.744	7987	277
79	[50]		$C_7H_8N_8O_{16}$	-7.0	24.4	1.73			1.747	1.773	-398.4	-369.2	-446.39	2.7033	8775	338	8653	351	8503	313	8429	8590	334	1.760	8300	292
80	[50]		$C_5H_6N_8O_9$	-19.9	34.8	1.70		1.685		1.651	98.3	259.4	138.42	2.5785	8349	310	8707	356	8288	294	8363	8427	320	1.687	8285	291
81	[50]		$C_7H_8N_{10}O_{18}$	0.0	26.9	1.89			1.786	1.816	-292.8	-224.6	-389.62	2.8307	9754	428	9008	384	9212	387	9102	9269	400	1.762	9083	365
82	[50]		$C_6H_7N_5O_{12}$	-16.4	20.5	1.66			1.787	1.738	-824.5	-782.0	-840.91	2.5498	8130	291	7739	266	7671	248	7652	7798	268	1.762	7515	234
83	[50]		$C_9H_8N_8O_{18}$	-6.3	22.2	1.65			1.847	1.787	-777.5	-666.2	-814.41	2.7093	8475	306	8354	323	8014	270	8010	8213	300	1.817	7801	247

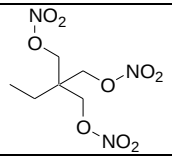
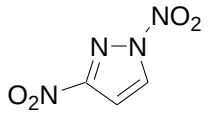
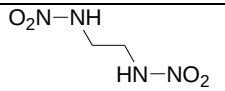
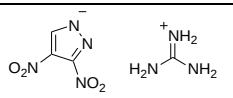
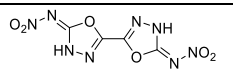
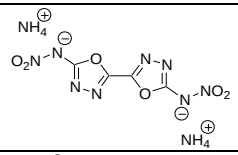
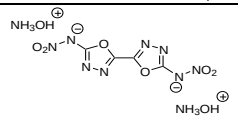
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
84	[51]		$C_7H_{10}N_6O_4$*	99.1	34.7	1.38		1.292		1.348	-176	174.0	-58.79	2.1687	6329	162	5120	22	5648	119	6039	5784	101	1.320	6192	118
85	[51]		$C_7H_8N_{12}O_4$	-69.1	51.8	1.49		1.410		1.437	542	936.5	528.06	2.3181	6999	208	7209	217	6660	174	7135	7001	200	1.423	6974	170
86	[51]		$C_9H_{12}N_{12}O_4$*	-109.4	44.2	1.38		1.323		1.318	466	838.2	443.69	1.9933	5977	148	5598	66	5880	129	6278	5933	114	1.321	6576	160
87	[51]		$C_9H_{10}N_{18}O_4$*	-86.5	54.5	1.51		1.413		1.382	1187	1600.6	1030.54	2.1427	6681	196	6978	195	6695	178	7122	6869	190	1.397	7147	181
88	[51]		$C_9H_{12}N_{12}O_4$*	-90.8	47.7	1.30		1.361		1.370	440	887.3	484.97	2.1557	6052	141	6340	135	5809	120	6350	6138	132	1.365	6252	119
89	[51]		$C_9H_{10}N_{18}O_4$*	-70.0	58.1	1.50		1.446		1.433	1160	1649.8	1071.82	2.3051	7004	209	7669	260	6816	183	7346	7209	217	1.440	7087	178
90	[52]		$C_3H_5N_5O_5$	-29.3	36.6	1.86			1.744	1.770	-277	-162.3	-20.66	2.1987	7922	317	8184	308	8067	294	8183	8089	306	1.757	8516	305
91	[52]		$C_2H_4N_6O_7$	-6.8	35.6	1.79			1.831	1.862	-153	-186.6	-11.74	2.3060	7978	307	9009	385	8512	320	8634	8533	337	1.847	8576	293

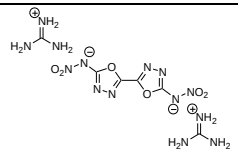
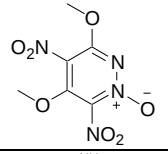
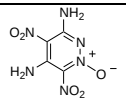
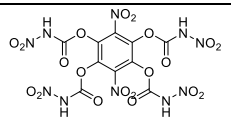
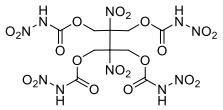
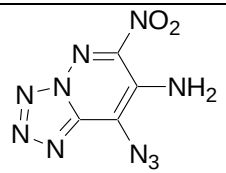
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
92	[52]		$C_4H_7N_7O_8$	-14.3	35.1	1.70			1.818	1.841	-355	-331.9	-7.50	2.1920	7394	260	8573	344	7818	262	8043	7957	289	1.829	7085	231
93	[52]		$C_4H_5N_7O_8$	-14.3	35.1	1.82	1.820			1.827	-337	-205.1		2.3922	8306	331	8573	344	8225	302	8370	8369	326	1.824	8359	279
94	[53]		$C_7H_6N_8O_{16}$	-3.7	19.5	1.76			1.748	1.789	-759	-813.8	-736.45	2.6631	8790	345	8197	309	8361	306	8262	8402	320	1.768	8263	246
95	[53]		$C_8H_8N_8O_{18}$	-6.3	22.2	1.78			1.748	1.781	-691	-476.0	-700.32	2.7093	8987	360	8354	323	8506	319	8401	8562	334	1.764	8415	240
96	[54]		$C_3H_3N_5O_8$*	10.2	29.8	1.95			1.920	1.972	142	-257.9	-171.82	2.5333	9158	407	8870	372	9619	430	9658	9326	403	1.946	8798	331
97	[54]		$C_4H_5N_5O_7$	-17.2	30.0	1.84			1.834	1.784	43	78.1	-59.90	2.5122	8696	357	8980	382	8686	339	8655	8754	359	1.809	8779	346
98	[54]		$C_4H_5N_5O_8$	-9.6	28.1	1.80			1.829	1.833	133	-23.5	-183.34	2.5522	8655	346	8404	328	8868	349	8835	8690	341	1.831	8804	346
99	[55]		$C_9H_{10}N_{10}O_8$	-76.8	39.5	1.666	1.657			1.652	197.5	311.1		1.9417	6680	218	7482	242	6988	207	7140	7072	222	1.655	7543	211

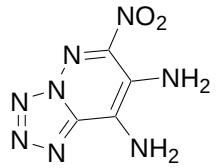
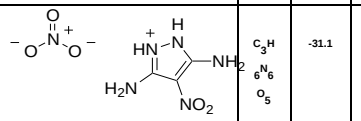
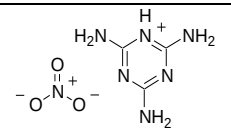
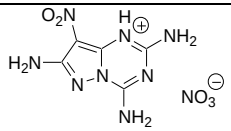
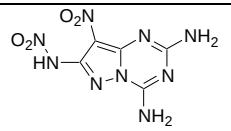
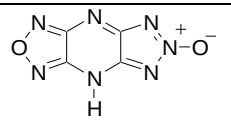
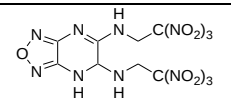
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
100	[55]		$C_8H_{11}O_8N_{11}$	-75.8	41.7	1.80	1.648			1.660	303.4	321.5		1.8617	6849	247	7610	254	7499	249	7554	7378	250	1.654	8302	268
101	[55]		$C_8H_8N_9O_8$	-71.8	35.9	1.84	1.682			1.651	245.9	352.3		2.2758	8064	321	7486	242	7729	268	7651	7732	277	1.667	8400	289
102	[55]		$C_{14}H_{20}N_8O_8$*	-129.2	28.3	1.53	1.474			1.384	68.6	204.9		1.6885	5734	154	5337	42	6036	146	6033	5785	114	1.429	6937	158
103	[55]		$C_8H_9N_9O_8$*	-70.9	38.5	1.62	1.672			1.659	386.9	247.5		2.0957	6913	223	7630	256	7233	217	7339	7279	232	1.665	7640	220
104	[55]		$C_9H_{13}N_{13}O_8$	-74.1	45.6	1.59	1.634			1.673	512.4	342.3		1.7017	5911	170	7837	275	7086	206	7316	7038	217	1.653	7597	208
105	[55]		$C_8H_6N_8O_8$	-67.1	36.1	1.85			1.989	1.746	147.4	299.0	325.48	2.0828	7579	296	7635	256	7540	256	7554	7577	269	1.868	8178	278
106	[55]		$C_8H_{11}O_8N_{11}$	-75.8	41.7	1.59	1.648			1.667	154.8	321.5		1.8617	6281	188	7610	254	6734	186	6998	6906	209	1.657	7209	185
107	[55]		$C_8H_{12}O_8N_{12}$*	-74.9	43.7	1.66	1.641			1.674	260.6	319.7		1.7817	6277	197	7728	265	7051	210	7264	7080	224	1.657	7657	214

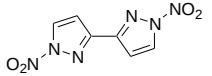
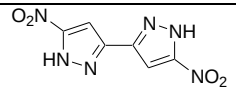
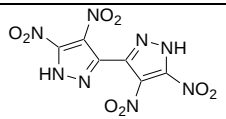
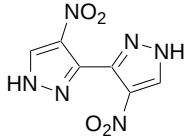
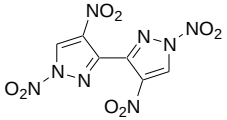
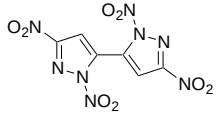
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
108	[55]		$C_{14}H_{21}N_9O_8$*	-126.4	30.6	1.50	1.473			1.402	25.9	167.7		1.7086	5704	150	5530	60	5949	140	6030	5803	117	1.438	6802	151
109	[56]		$C_2H_2N_{12}O_4$	-6.2	65.1	1.930			2.134	1.921	932.1	810.1	661.23	2.6561	9428	418	10855	557	9715	436	10282	10070	470	2.027	10142	456
110	[56]		$C_2H_8N_{14}O_4$	-21.9	67.1	1.795	1.724			1.705	647.7	997.8		2.8821	9497	391	10312	506	8173	296	8900	9220	398	1.715	9519	361
111	[56]		$C_2H_8N_{14}O_6$	-9.9	60.5	1.842	1.766			1.751	789.8	620.1		2.7619	9372	395	10556	529	9399	397	9778	9776	440	1.758	9885	418
112	[56]		$C_2H_8N_{16}O_4$	-20.0	70.0	1.753	1.736			1.675	941.9	1263.4		2.9295	9442	379	10504	524	8778	336	9361	9521	413	1.706	9472	358

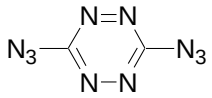
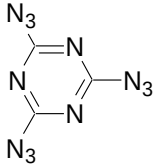
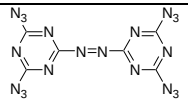
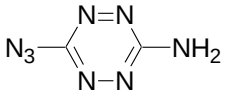
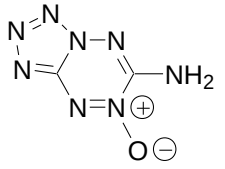
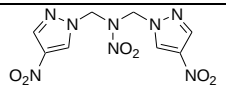
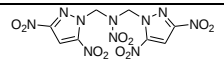
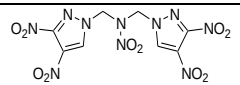
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
113	[57]		$C_6H_4N_6O_{16}$*	7.7	20.2	1.84			1.797	1.851	-668.0	-694.1	-715.81	2.7443	9317	392	8017	292	8813	349	8724	8718	344	1.824	8275	286
114	[57]		$C_7H_6N_6O_{16}$	-3.7	19.5	1.73			1.748	1.789	-705.2	-940.6	-736.45	2.6631	8674	333	8197	309	8305	299	8220	8349	314	1.769	8071	270
115	[57]		$C_4H_2N_6O_9$	0.0	30.2	1.75		1.858		1.782	-170.5	-287.4	-131.00	2.6195	8641	335	8574	344	8353	304	8496	8516	328	1.820	8223	280
116	[57]		$C_6H_5N_7O_{16}$*	5.6	22.7	1.92			1.795	1.851	-775.2	-509.4	-662.34	2.6643	9413	415	8251	314	8967	370	8867	8874	366	1.823	8675	237
117	[57]		$C_7H_7N_7O_{15}$	-9.3	22.8	1.63			1.748	1.776	-645.2	-693.8	-478.28	2.5431	8003	279	8303	319	7889	260	7905	7932	270	1.762	7703	241
118	[57]		$C_4H_3N_7O_9$	-2.7	33.5	1.50		1.878		1.785	-271	-118.5	-77.53	2.5395	7515	233	8697	355	7385	215	7727	7831	268	1.831	7213	189

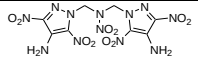
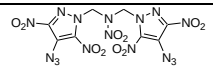
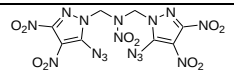
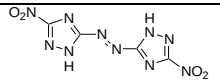
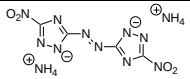
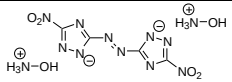
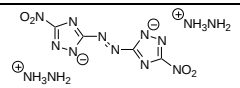
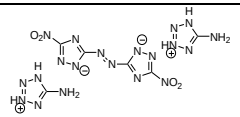
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
119	[26]		$C_6H_{11}N_3O_9$	-50.5	15.6	1.500			1.445	1.527	-480	-451.2	-604.86	2.3680	7141	216	6815	180	7298	210	7074	7082	202	1.529	7097	196
120	[37]		C3H2N4O4	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8426	306
121	[26]		$C_2H_6N_4O_4$	-32.0	37.3	1.75			1.608	1.646	-103.8	-60.9	0.81	2.3055	7842	292	8309	319	8421	309	8380	8238	307	1.627	8336	299
122	[37]		$C_4H_7N_7O_4$	-55.3	45.2	1.63	1.669			1.680	40.4	43.9		2.1249	7013	230	8283	317	7290	222	7560	7536	256	1.675	8369	276
123	[58]		$C_4H_2N_8O_6$	-18.6	43.4	1.98			1.981	1.849	278.6	190.5	66.11	2.3467	8731	387	8566	343	8941	375	9130	8842	368	1.915	9388	391
124	[58]		$C_4H_8N_{10}O_6$	-32.9	47.9	1.95	1.728			1.693	-71.8	408.8		2.7193	9685	438	8653	351	8467	333	8698	8876	374	1.711	9225	349
125	[58]		$C_4H_8N_{10}O_{10}$	-19.7	43.2	1.92	1.770			1.725	70.2	31.1		2.5991	9231	404	8968	381	8953	369	9042	9048	385	1.748	9186	341

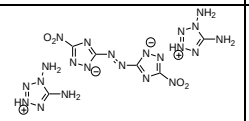
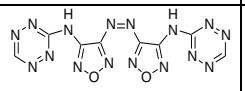
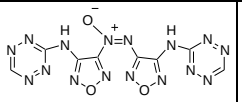
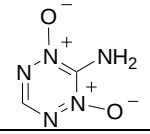
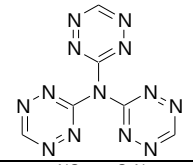
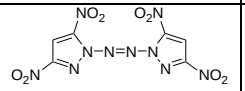
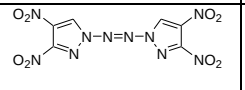
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
126	[58]		$C_4H_{12}N_{14}O_6$	-51.0	52.1	1.79	1.670			1.686	-59.9	437.4		2.0511	7315	271	8386	326	7489	248	7931	7780	282	1.678	8027	248
127	[59]		$C_6H_6N_4O_7$	-52.0	22.8	1.59			1.764	1.659	-114	-172.8		2.3297	7362	241	7213	217	7314	220	7240	7282	226	1.712	7227	208
128	[59]		$C_4H_4N_6O_5$	-37.0	38.9	1.84			2.116	1.841	110	21.2		2.2521	8001	318	8725	358	8266	307	8335	8332	328	1.978	8486	302
129	[60]		$C_{10}H_{14}N_6O_{12}$	-5.5	24.0	1.71			1.852	1.924	-1275	-1125.2	-854.39	2.3027	7701	278	8023	293	7629	250	7806	7790	274	1.888	7702	-
130	[60]		$C_{10}H_{16}N_6O_{12}$	-16.2	23.7	1.89			1.713	1.764	-1441.5	-1355.9	-1051.07	2.2739	8225	340	7846	276	8293	314	8190	8138	310	1.739	8298	-
131	[61]		$C_4H_2N_{10}O_2$	-50.4	63.1	1.82		1.390	2.107	1.749	811.2	998.6	726.07	2.4808	8540	344	9212	403	8079	291	8608	8610	346	1.570	8746	315

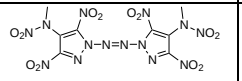
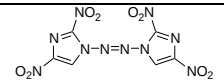
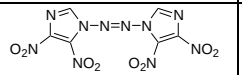
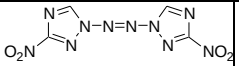
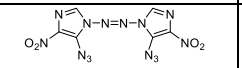
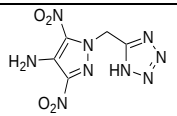
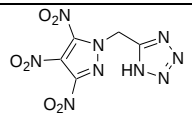
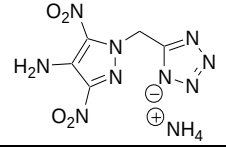
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
132	[61]		$C_4H_4N_8O_2$	-65.3	57.1	1.80			1.948	1.766	446.5	472.9	462.06	2.3261	8064	314	8179	307	7630	258	8025	7974	293	1.857	8434	277
133	[62]		$C_3H_6N_6O_5$	-31.1	40.8	1.76	1.732			1.852	-63.4	-212.2		2.1187	7398	270	8818	367	8174	292	8290	8170	310	1.792	8420	298
134	[62]		$C_3H_7N_7O_3$*	-55.0	51.8	1.65	1.639			1.684	-173.7	-149.1		2.0588	6916	228	8386	326	6763	192	7406	7368	249	1.661	7455	193
135	[62]		$C_5H_7N_9O_5$	-49.8	46.1	1.82	1.817			1.816	60.0	5.8		2.1848	7758	300	8634	350	7776	270	8011	8045	307	1.817	8391	282
136	[62]		$C_5H_5N_9O_4$	-53.3	49.4	1.89				1.825	314	331.0	439.87	2.2521	8165	336	8582	345	8004	292	8242	8248	324	-	8713	319
137	[63]		$C_4HN_7O_2$	-58.1	54.7	1.85				1.870	597	475.7	521.64	2.4133	8467	346	8748	360	7913	282	8314	8360	329	-	8532	324
138	[63]		$C_8H_8N_1$	-23.3	35.0	1.80			1.830	1.806	110	138.0	162.52	2.3038	8005	310	8907	375	8430	315	8483	8456	333	1.818	8409	321

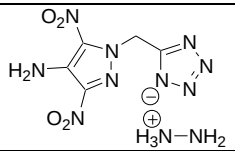
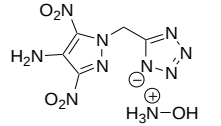
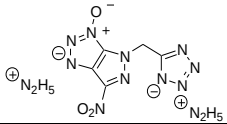
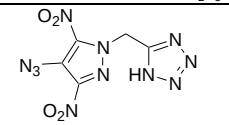
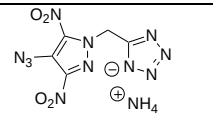
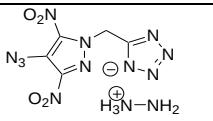
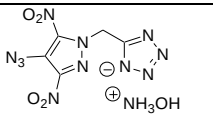
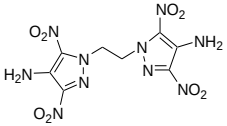
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
			$_2O_{13}$																								
139	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.751	413.9	321.2	340.57	2.4109	8320	330	7503	244	7718	265	7728	7817	280	1.794	8301	288
140	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.759	229.1	149.5	299.39	2.2107	7794	301	7503	244	7425	245	7481	7551	263	1.797	8026	262
141	[64]		$C_6H_2N_8O_8H_2O$	-25.5	35.7	1.84			1.940	1.927	42.7	132.6	254.93	2.4253	8464	344	8908	375	8079	293	8251	8426	337	1.933	8556	323
142	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.83			1.836	1.759	221	149.5	299.39	2.2107	7858	308	7503	244	7469	250	7512	7586	267	1.797	8120	269
143	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.85			1.940	1.920	407.1	304.4	296.11	2.6255	9037	378	8908	375	8523	327	8631	8775	360	1.980	8869	345
144	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.855			1.940	1.920	444.1	304.4	296.11	2.6255	9057	380	8908	375	8578	332	8680	8806	362	1.980	8926	354

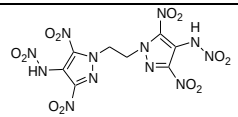
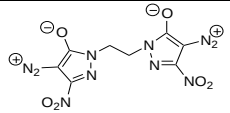
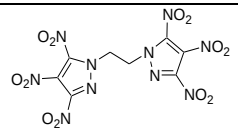
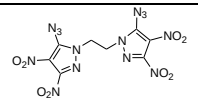
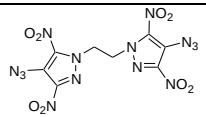
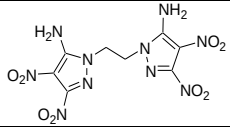
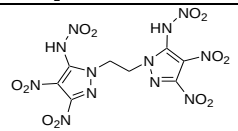
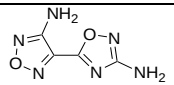
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
145	[40]		C_2N_{10}	-39.0	85.4	1.62		1.280		1.566	1130	1206.1	867.21	2.5095	7887	271	-	-	8023	267	8987	8299	269	1.423	8306	265
146	[40]		C_3N_{12}*	-47.0	82.3	1.74				1.563	1053	1412.8	1100.11	2.4829	8257	313	-	-	7699	258	8680	8212	286	-	8308	269
147	[40]		C_6N_{20}*	-54.5	79.5	1.67				1.481	2171	2022.5	1747.35	2.5971	8282	301	-	-	7691	250.5	8582	8185	275.8	-	8306	264
148	[40]		$C_2H_2N_8$*	-57.9	81.1	1.68				1.554	686.2	882.8	603.20	2.3548	7728	274	-	-	7664	250	8502	7965	262	-	8449	270
149	[40]		$C_2H_2N_8O$	-41.5	72.7	1.874				1.839	631.4	713.5		2.5414	8885	374	9359	417	8550	332	9206	9000	374	-	9326	364
150	[65]		$C_9H_8N_8O_6$	-71.8	35.9	1.69			1.745	1.663	377.2	367.6	362.89	2.3759	7814	280	7486	242	7429	236	7445	7544	253	1.704	7867	251
151	[65]		$C_9H_6N_{10}O_{10}$	-35.8	34.8	1.789	1.78		1.847	1.801	388	350.8	311.60	2.5905	8680	343	8583	345	8234	299	8273	8442	329	1.824	8258	309
152	[65]		$C_9H_6N_{10}O_{10}$	-35.8	34.8	1.78			1.847	1.801	398	350.8	311.60	2.5905	8680	343	8583	345	8242	299	8280	8446	329	1.824	8265	310

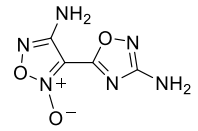
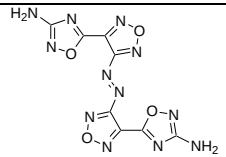
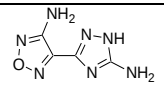
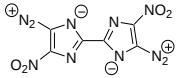
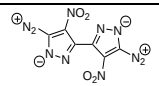
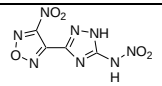
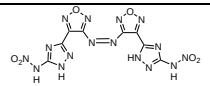
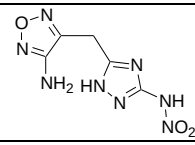
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
153	[65]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.86			1.839	1.820	486.4	371.6	356.24	2.4305	8549	352	8753	361	8555	331	8575	8608	348	1.829	8639	347
154	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1108.2	1220.5	884.26	2.7399	9265	386	9339	415	8619	333	8880	9026	378	1.716	8717	351
155	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1118.7	1220.5	884.26	2.7399	9265	386	9339	415	8626	333	8886	9029	378	1.716	8724	352
156	[66]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.88			2.062	1.795	571.7	580.1	453.47	2.4607	8702	365	9602	440	8421	323	8845	8892	376	1.928	8952	347
157	[66]		$C_4H_8N_{12}O_4$	-44.4	58.3	1.76	1.693			1.614	426.5	675.8		2.6867	8851	349	9200	402	7984	279	8405	8610	343	1.654	8665	295
158	[66]		$C_4H_{10}N_{12}O_6$	-30.0	52.5	1.82	1.739			1.664	279.5	521.7		2.5665	8767	356	9558	436	8402	315	8715	8860	369	1.702	8857	330
159	[66]		$C_4H_{14}O_4$*	-45.3	61.6	1.80	1.671			1.634	661.9	601.5		2.3265	8065	314	9287	410	8359	310	8749	8615	345	1.652	9114	329
160	[66]		$C_6H_8N_{20}O_4$	-45.3	66.0	1.71	1.724			1.736	1239.0	1151.1		2.4209	7995	293	9525	433	7862	266	8448	8458	331	1.730	8226	258

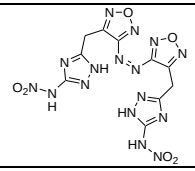
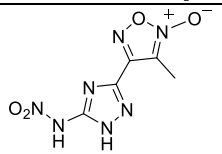
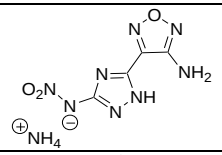
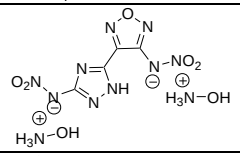
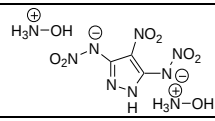
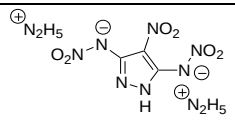
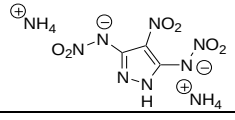
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
161	[66]		$C_6H_{10}N_{22}O_4$*	-45.8	67.8	1.79	1.706			1.744	967.7	1267.0		2.4611	8381	329	9565	436	7826	271	8494	8566	345	1.725	8702	294
162	[67]		$C_8H_4N_{16}O_2$	-71.9	62.9	1.67				1.609	1654.3	1283.9	895.13	2.5129	8078	290	8373	325	7457	236	7996	7976	284	-	8075	251
163	[67]		$C_8H_4N_{16}O_3$	-64.5	60.2	1.75				1.657	1517.6	1313.8		2.5529	8471	326	8644	350	7752	262	8223	8272	313	-	8401	283
164	[67]		$C_2H_3N_5O_2$	-43.4	54.3	1.77				1.786	237.2	270.2		2.3601	8050	307	8799	365	8145	291	8466	8365	321	-	8640	302
165	[67]		$C_6H_3N_{13}$*	-84.0	70.8	1.73				1.517	1386.2	1405.1	1003.43	2.5670	8433	320	-	-	7415	238	8053	7967	279	-	8322	264
166	[68]**4**		$C_6H_2N_{16}O_8$	-23.4	40.9	1.81			1.983	1.852	687.6	677.3	343.33	2.6729	9010	368	9202	403	8559	326	8773	8886	366	1.917	8298	348
167	[68]**5**		$C_6H_2N_{16}O_8$	-23.4	40.9	1.82			1.983	1.852	687.6	677.3	343.33	2.6729	9048	372	9202	403	8592	330	8801	8911	368	1.917	8964	351

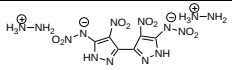
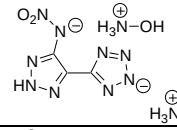
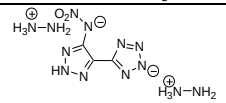
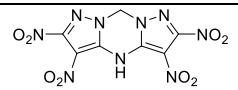
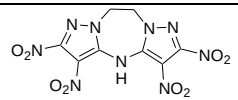
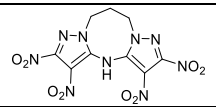
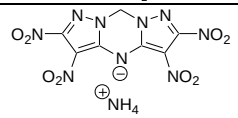
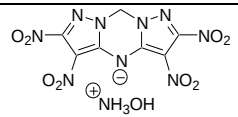
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
168	[68]6		$C_8H_6N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	789.2	849.9	392.65	2.7653	9212	377	9200	402	8654	332	8790	8964	370	1.864	8834	346
169	[68]7		$C_6H_2N_{10}O_8$	-23.4	40.9	1.85			1.983	1.852	591.8	493.3	343.33	2.6729	9165	385	9202	403	8600	333	8799	8942	374	1.917	8979	356
170	[68]8		$C_6H_2N_{10}O_8$	-23.4	40.9	1.83			1.983	1.852	612.4	493.3	343.33	2.6729	9087	376	9202	403	8554	328	8762	8901	369	1.917	8932	351
171	[68]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.80			2.062	1.770	719.1	859.2	494.65	2.6609	8939	362	9602	440	8373	311	8799	8928	371	1.916	8825	335
172	[68]		$C_4H_2N_{14}O_4$	-43.1	58.7	1.77		1.470		1.712	1169.1	1379.9	960.45	2.6077	8687	342	9365	418	8056	285	8557	8666	348	1.591	8702	314
173	[69]		$C_5H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	347.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
174	[69]		$C_5H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	376.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345
175	[69]		$C_5H_6N_{10}O_6$	-58.8	51.5	1.68	1.669			1.659	422.3	535.3		2.4652	7998	288	8433	331	7614	247	7900	7986	289	1.664	8153	251

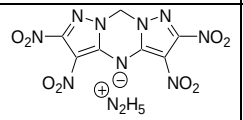
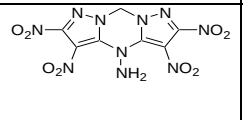
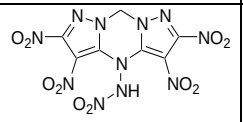
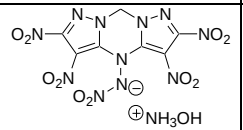
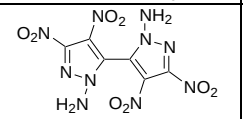
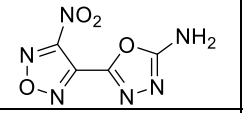
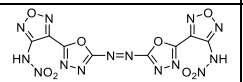
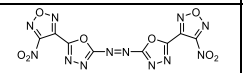
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176	[69]		$C_5H_7N_{11}O_6$*	-58.5	53.6	1.65	1.812			1.668	573.8	450.6		2.2851	7458	255	8521	339	7696	249	7992	7917	281	1.740	8264	256
177	[69]		$C_5H_6N_{10}O_7$	-50.0	48.6	1.75	1.695			1.685	470.2	298.9		2.4051	8096	306	8696	355	8118	287	8293	8301	316	1.690	8592	298
178	[69]		$C_6H_{14}N_{14}O_3$*	-77.5	59.4	1.69	1.604			1.658	883.2	642.1		2.3519	7755	277	8342	322	7914	267	8269	8070	289	1.631	8778	289
179	[69]		$C_5H_5N_{11}O_4$	-42.7	54.8	1.812		1.473	2.031	1.741	782.1	873.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
180	[69]		$C_5H_6N_{12}O_4$	-48.3	56.4	1.64	1.725			1.657	793.0	965.9		2.6199	8223	292	9028	386	7740	251	8150	8285	310	1.691	8167	258
181	[69]		$C_5H_7N_{13}O_4$	-48.5	58.1	1.72	1.712			1.665	937.1	928.7		2.4398	8077	299	9081	391	8137	286	8503	8450	325	1.688	8640	297
182	[69]		$C_5H_6N_{12}O_5$	-40.7	53.5	1.76	1.746			1.659	834.3	824.6		2.5598	8526	331	9210	403	8354	305	8652	8686	346	1.703	8747	322
183	[70]		$C_6H_6N_{10}O_8$	-51.6	37.6	1.77			1.799	1.768	218.9	291.4	299.47	2.3031	7903	299	8238	313	7815	268	7871	7957	293	1.784	8189	279

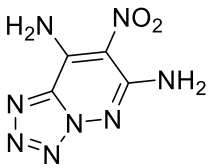
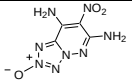
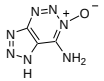
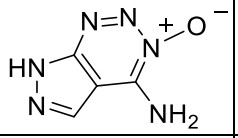
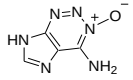
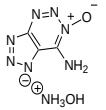
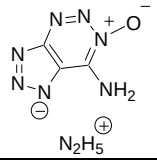
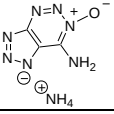
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
184	[70]		$C_8H_8N_{12}O_{12}$	-24.2	36.4	1.84			1.877	1.862	380.6	305.2	317.31	2.5177	8711	357	9000	384	8588	331	8650	8737	357	1.869	8753	343
185	[70]		$C_8H_4N_{10}O_6$	-57.1	41.7	1.72	1.765		1.926	1.724	441.9	625.9		2.4377	8072	299	8180	307	7352	233	7599	7801	280	1.805	7803	242
186	[70]		$C_8H_4N_{10}O_{12}$	-22.2	32.4	1.84			1.887	1.863	306.9	253.7	210.37	2.6777	9139	382	8852	370	8551	329	8588	8782	360	1.875	8759	341
187	[70]		$C_8H_4N_{14}O_8$	-37.7	46.2	1.78		1.543	1.983	1.750	1233.9	1140.3	827.49	2.6125	8737	347	8991	383	8398	311	8651	8694	347	1.647	8797	334
188	[70]		$C_8H_4N_{14}O_8$	-37.7	46.2	1.76		1.543	1.983	1.750	1013.9	1140.3	827.49	2.6125	8661	338	8991	383	8170	292	8444	8566	338	1.647	8558	310
189	[70]		$C_8H_8N_{10}O_8$	-51.6	37.6	1.75			1.799	1.768	237.9	291.4	299.47	2.3031	7836	292	8238	313	7772	263	7839	7921	289	1.784	8127	273
190	[70]		$C_8H_6N_{12}O_{12}$	-24.2	36.4	1.83			1.877	1.862	368.1	305.2	317.31	2.5177	8675	353	9000	384	8546	327	8615	8709	355	1.869	8710	337
191	[71]		$C_4H_4N_4O_2$	-76.1	50.0	1.680				1.716	186.6	246.9	155.73	2.2787	7542	265	7458	240	6820	198	7227	7262	234	-	7459	204

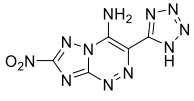
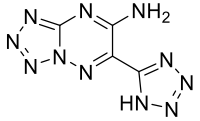
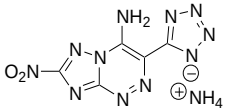
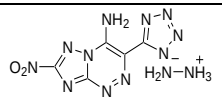
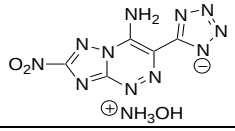
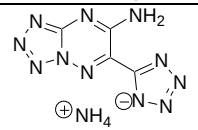
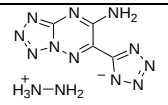
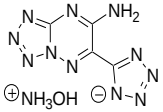
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
192	[71]		$C_4H_4N_8O_3$	-60.8	45.6	1.788				1.819	185.9	184.97		2.3187	8004	308	8085	298	7576	254	7787	7863	287	-	8193	268
193	[71]		$C_8H_4N_{12}O_2$	-67.4	50.6	1.652				1.716	705.5	868.1	334.43	2.4981	7976	282	8192	308	6964	204	7405	7634	265	-	7547	216
194	[71]		$C_4H_5N_7O^*$	-91.0	58.7	1.716				1.685	290.8	279.8	325.54	2.1587	7362	261	5873	92	6698	193	7229	6790	182	-	7798	215
195	[72]		$C_8N_{10}O_4$	-46.4	50.7	1.830	1.829		2.112	1.757	819.7	707.1		2.5201	8681	354	8964	380	7927	281	8344	8479	338	1.899	8653	311
196	[72]		$C_8N_{10}O_4$	-46.4	50.7	1.850	1.829		2.112	1.757	987.2	707.1		2.5201	8754	362	8964	380	8189	302	8580	8622	348	1.899	8943	340
197	[73]		$C_4H_2N_8O_5$	-26.4	46.3	1.851			1.996	1.881	524.66	322.8	289.91	2.4533	8578	352	9389	420	8648	337	8902	8879	370	1.938	9025	360
198	[73]		$C_8H_4N_{16}O_6$	-45.7	53.3	1.873			2.033	1.799	1274.4	1121.9	691.89	2.4727	8709	364	9045	388	8392	320	8719	8716	357	1.916	8973	349
199	[73]		$C_5H_6N_8O_3$	-70.8	49.5	1.695			1.832	1.692	449.0	364.6	313.82	2.1848	7361	258	7834	275	7456	238	7699	7588	257	1.762	8079	249

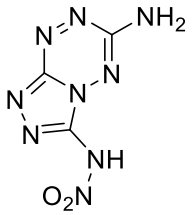
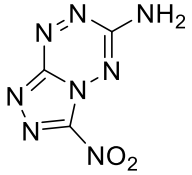
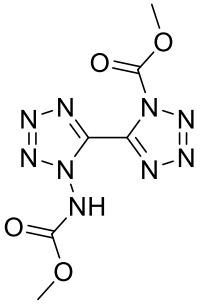
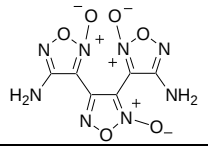
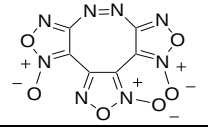
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
200	[73]		$C_{10}H_8N_{16}O_6$	-64.2	50.0	1.704			1.924	1.692	1206.2	1072.8	650.61	2.3103	7700	277	8314	320	7607	248	7890	7878	282	1.808	8125	260
201	[73]		$C_5H_5N_7O_4$	-59.9	43.2	1.741			1.932	1.750	443.8	321.3		2.3048	7810	289	8098	300	7873	269	7986	7942	286	1.841	8236	282
202	[73]		$C_5H_9N_9O_3$ *	-59.3	55.0	1.680	1.658			1.679	328.2	481.4		2.3790	7787	277	8386	326	7494	239	7872	7885	281	1.668	8130	246
203	[73]		$C_5H_{11}N_{11}O_7$	-27.2	47.7	1.850	1.736			1.723	327.3	190.7		2.4791	8032	290	9478	428	8286	292	8505	8575	337	1.730	9135	366
204	[74]		$C_3H_9N_9O_8$	-13.4	42.1	1.90	1.757			1.757	95.7	-165.2		2.3991	8603	364	9719	451	9368	402	9370	9265	406	1.757	9394	400
205	[74]		$C_3H_{11}N_{11}O_6$	-29.6	51.8	1.87	1.684			1.721	300.2	138.2		2.1591	7847	314	9570	437	9061	373	9198	8919	375	1.703	9581	385
206	[74]		$C_3H_9N_9O_7$	-27.0	47.2	1.80	1.710			1.707	-22.7	260.0		2.5193	8569	341	9451	426	8479	319	8666	8791	362	1.708	8842	326

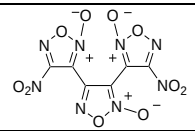
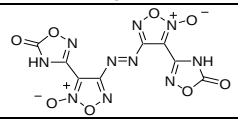
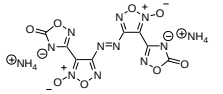
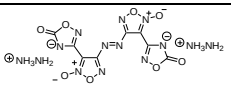
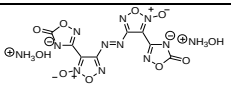
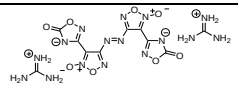
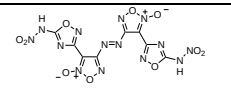
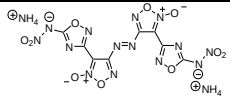
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
207	[74]		$C_6H_{12}N_{14}O_8$	-39.2	48.0	1.85	1.707			1.757	498.0	297.5		2.1311	7709	303	9139	397	8654	338	8765	8567	346	1.732	9118	352
208	[74]		$C_3H_9N_{11}O_4$*	-39.5	58.5	1.82	1.672			1.644	434.3	532.5		2.4331	8414	337	9342	416	8591	330	8900	8812	361	1.658	9282	348
209	[74]		$C_3H_{11}N_{13}O_2$*	-58.2	69.7	1.71	1.588			1.608	663.4	651.9		2.1931	7429	264	8285	317	8006	276	8524	7986	270	1.598	9022	301
210	[75]		$C_7H_3N_9O_8$	-35.2	37.0	1.895			2.014	1.932	375.3	207.9	445.16	2.4715	8785	373	8664	352	8400	323	8475	8562	349	1.973	8792	343
211	[75]		$C_8H_5N_9O_8$	-47.3	35.5	1.80			1.949	1.847	301.9	275.3	418.36	2.3903	8232	323	8240	313	7908	277	7964	8086	304	1.898	8257	292
212	[75]		$C_8H_7N_9O_8$	-58.5	34.1	1.760			1.890	1.775	299.1	250.7	391.56	2.3091	7885	297	7847	276	7671	258	7680	7771	277	1.833	8051	272
213	[75]		$C_7H_6N_{10}O_8$	-40.2	39.1	1.82	1.775			1.836	347.5	319.1		2.5845	8815	359	8642	350	8218	302	8296	8493	337	1.805	8518	317
214	[75]		$C_7H_6N_{10}O_9$	-34.2	37.4	1.86	1.791			1.853	392.9	177.8		2.5244	8802	367	8759	361	8549	331	8572	8670	353	1.822	8893	359

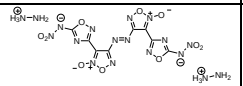
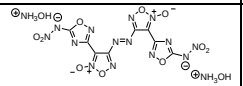
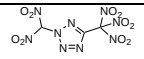
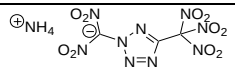
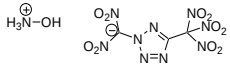
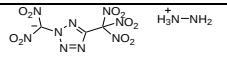
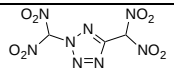
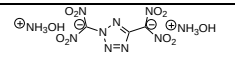
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
215	[75]		$C_7H_7N_{11}O_8$	-40.7	41.3	1.83	1.762			1.791	496.4	377.0		2.4044	8373	337	8732	359	8384	315	8460	8487	337	1.776	8690	332
216	[75]		$C_7H_4N_{10}O_8$	-35.9	39.3	1.790			2.005	1.929	342.0	376.8	432.55	2.4916	8460	333	8758	361	8035	285	8201	8364	326	1.967	8356	296
217	[75]		$C_7H_5N_{11}O_{10}$	-21.9	38.4	1.937			2.037	1.972	521.6	399.0	441.47	2.5989	9295	412	9127	396	8890	366	8989	9075	391	2.005	9226	388
218	[75]		$C_7H_6N_{12}O_{11}$	-22.1	38.7	1.87	1.821			1.897	573.1	533.9		2.6518	9185	391	9183	401	8894	359	8960	9056	384	1.859	9034	371
219	[76]		$C_6H_4N_{10}O_8$	-27.9	40.7	1.760 *1.811 @ 173 K*			1.922	1.921	457.8	432.5	340.75	2.4655	8285	318	9080	391	8263	299	8449	8519	336	1.922	8504	310
220	[77]		$C_4H_2N_6O_4$	-40.4	42.4	1.747			1.950	1.823	219.4	236.0	111.18	2.4660	8240	313	8781	363	7724	260	7991	8184	312	1.976	8102	269
221	[77]		$C_8H_2N_{14}O_8$	-34.1	-34.1	1.767			2.033	1.826	786.1	1026.3	352.27	2.7127	8945	355	8660	352	7940	277	8295	8460	328	1.929	8409	293
222	[77]		$C_8N_{12}O_8$	-32.6	42.9	1.825			2.056	1.824	854.2	790.8	245.33	2.8727	9598	404	8954	379	8170	299	8475	8683	346	1.940	8800	351

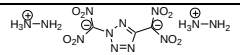
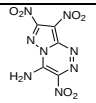
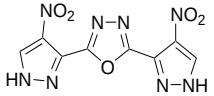
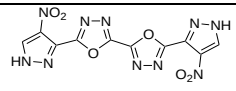
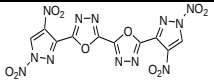
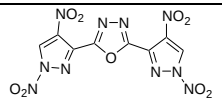
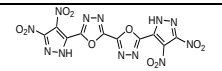
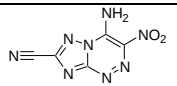
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
223	[78]		$C_4H_4N_8O_2$	-65.3	57.1	1.869			1.948	1.766	398	564.9	462.06	2.3261	8297	340	8179	307	7731	271	8115	8080	306	1.857	8899	303
224	[78]		$C_4H_4N_8O_3$	-52.8	52.8	1.886			2.033	1.856	470	502.8		2.3661	8464	353	8669	353	8281	313	8530	8486	340	1.945	9021	348
225	[79]		$C_2H_3N_7O^*$	-67.9	64.0	1.815				1.789	537.4	535.8		2.3400	8151	321	7641	257	7868	276	8330	7998	285	-	8792	303
226	[79]		$C_4H_4N_8O^*$	-94.7	55.2	1.772				1.721	418.9	361.3		2.2387	7744	291	5901	95	7155	225	7467	7067	204	-	8271	256
227	[79]		$C_4H_4N_8O^*$	-94.7	55.2	1.743				1.721	368.3	361.3		2.2387	7650	281	5901	95	6943	210	7309	6951	195	-	8008	233
228	[79]		$C_4H_8N_8O_2^*$	-60.2	60.2	1.772	1.643			1.677	282.7	394.8		2.3929	8141	313	8155	305	7686	260	8136	8030	293	-	8607	280
229	[79]		$C_2H_7N_9O^*$	-73.5	68.1	1.800	1.584			1.515	625.0	689.2		2.2729	7726	285	6237	126	7594	251	8128	7421	221	1.550	9385	336
230	[79]		$C_2H_7N_9O^*$	-75.2	65.9	1.740	1.595			1.635	474.1	520.3		2.4530	8182	309	6295	131	7622	252	8093	7548	231	1.615	8744	282

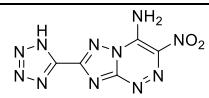
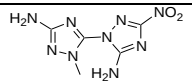
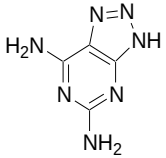
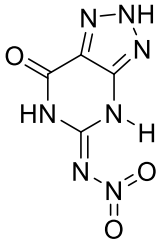
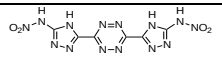
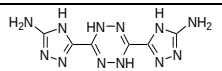
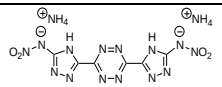
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
231	[80]		$C_5H_5N_{11}O_2$	-61.0	61.8	1.873			2.067	1.776	721.6	887.2	728.72	2.4734	8711	364	8709	357	7792	276	8300	8378	332	1.921	9010	328
232	[80]		$C_4H_5N_{11}$*	-74.1	75.1	1.795				1.714	866.5	1070.2	804.38	2.4674	8415	332	-	-	7446	246	8195	8019	289	-	8367	256
233	[80]		$C_5H_6N_{12}O_2$*	-66.1	63.1	1.811	1.674			1.676	625.3	982.6		2.5864	8786	356	8292	318	7565	255	8091	8184	310	1.675	8793	286
234	[80]		$C_5H_7N_{13}O_2$*	-65.4	64.8	1.855	1.662			1.685	781.2	897.9		2.4063	8466	347	8309	319	7932	284	8403	8278	317	1.673	8950	329
235	[80]		$C_5H_6N_{12}O_3$	-56.7	59.6	1.859	1.701			1.678	677.4	746.2		2.5263	8804	367	8761	361	8064	294	8457	8522	341	1.690	9220	331
236	[80]		$C_4H_6N_{12}$	-79.2	75.7	1.725	1.615			1.608	739.5	1073.6		2.5804	8448	320	-	-	7117	219	7909	7825	270	1.611	8313	249
237	[80]		$C_4H_7N_{13}$*	-77.6	76.8	1.742	1.605			1.622	882.1	988.9		2.4003	8055	302	-	-	7432	240	8161	7883	271	1.614	8679	276
238	[80]		$C_4H_6N_{12}O$	-67.2	70.6	1.751	1.651			1.614	785.7	837.2		2.5203	8392	322	7414	236	7576	253	8242	6221	270	1.633	8618	280

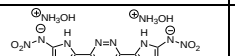
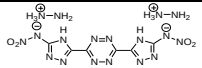
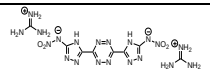
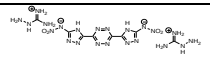
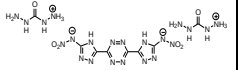
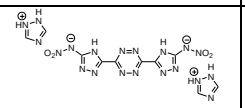
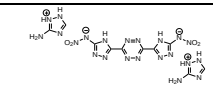
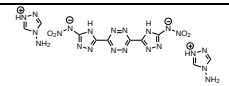
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239	[81]		$C_3H_3N_9O_2$	-44.6	64.0	1.79			2.050	1.804	634.3	625.7	546.64	2.4274	8293	324	9288	411	8175	295	8694	8612	343	1.927	8763	313
240	[81]		$C_3H_2N_8O_2$	-43.9	61.5	1.83			1.769	1.800	656.8	592.6	493.17	2.5074	8647	352	9344	416	8374	314	8846	8803	361	1.784	8953	339
241	[82]		$C_8H_7N_9O_4$	-68.4	46.8	1.64				1.590	325.5	301.3	80.14	2.3711	7630	262	7063	203	7122	212	7409	7306	226	-	7403	201
242	[83]		$C_6H_4N_8O_6$	-45.0	39.4	1.787				1.953	492.8	199.0		2.4847	8432	331	8485	336	8145	293	8248	8328	320	-	8480	310
243	[83]		$C_6N_8O_6$	-34.3	40.0	1.895				2.017	894.9	501.5		2.6993	9412	409	8830	368	8716	347	8936	8974	375	2.076	9417	396

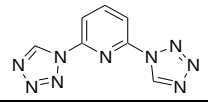
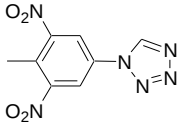
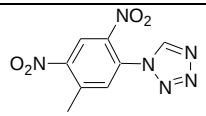
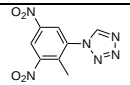
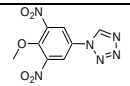
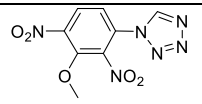
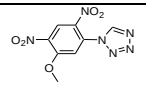
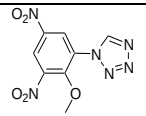
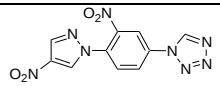
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
244	[83]		$C_6N_8O_{10}$	-9.3	32.6	1.914				2.062	579.2	161.4		2.8593	9932	444	9213	404	9106	381	9228	9370	410	-	9503	408
245	[84]		$C_8H_5N_{10}O$	-39.3	38.3	1.90				1.925	633.44	313.9		2.6179	9207	399	7922	283	8368	321	8485	8496	334	-	8891	347
246	[84]		$C_8H_{11}N_{12}O_8$	-48.0	42.0	1.65	1.743			1.762	534.88	560.1		2.8439	8798	323	7946	285	7647	246	7647	8058	285	1.752	8234	273
247	[84]		$C_8H_{10}N_{14}O_8$	-48.3	45.6	1.71	1.723			1.768	887.15	295.6		2.4837	8151	301	8700	356	8099	282	8255	8301	313	1.746	8453	293
248	[84]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.72	1.773			1.794	666.58	-7.8		2.7237	8787	337	8206	310	8234	293	8326	8388	313	1.784	8445	307
249	[84]		$C_{11}H_{12}N_{16}O_8$	-59.5	46.3	1.65	1.695			1.744	504.79	398.5		2.1757	7196	242	7892	280	6871	198	7293	7313	240	1.720	8150	267
250	[84]		$C_8H_2N_{14}O_{10}$	-24.7	43.2	1.92			2.112	2.013	1241.13	840.9		2.7927	9771	436	9027	386	9028	375	9235	9265	399	2.062	9505	413
251	[84]		$C_8H_8N_{16}O_{10}$	-32.8	45.9	1.66	1.782			1.778	1060.87	905.9		3.0187	9261	348	8997	383	8134	279	8386	8694	337	1.780	8357	289

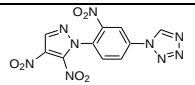
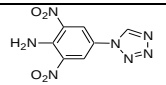
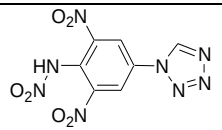
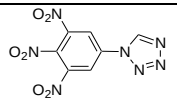
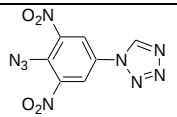
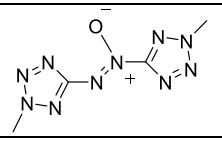
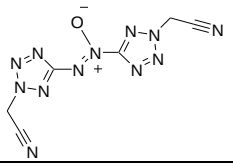
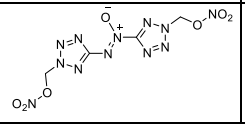
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
252	[84]		$C_8H_{10}N_{18}O_{10}$	-34.0	48.6	1.74	1.763			1.782	1187.52	669.3		2.6585	8701	336	9115	394	8451	310	8677	8736	347	1.772	8860	319
253	[84]		$C_8H_8N_{16}O_{12}$	-24.6	43.1	1.72	1.805			1.804	1405.62	528.2		2.8985	9224	360	9137	396	8717	328	8895	8993	361	1.804	8846	343
254	[85]		$C_3HN_9O_{10}$*	17.3	39.0	1.88			1.997	1.950	284.3	334.6	157.13	2.8082	9651	420	9252	407	9432	405	9684	9505	411	1.974	8511	312
255	[85]		$C_3H_4N_{10}O_{10}$*	9.4	41.2	1.79	1.884			1.896	238.1	334.9		2.8211	9317	380	9678	447	9109	367	9332	9359	398	1.890	8617	316
256	[85]		$C_3H_4N_{10}O_{11}$	13.5	39.3	1.92	1.896			1.912	277.8	193.6		2.7610	9683	431	9450	426	9729	436	9873	9762	434	1.896	9054	363
257	[85]		$C_3H_5N_{11}O_{10}$	6.8	43.4	1.81	1.866			1.904	383.5	297.8		2.6410	8926	363	9881	466	8889	352	9166	9216	394	1.895	8920	346
258	[85]		$C_3H_2N_8O_8$	5.8	40.3	1.92	1.964			1.881	247.5	312.4	171.36	2.7009	9515	421	9750	454	9393	406	9587	9561	427	1.922	9123	377
259	[85]		$C_3H_8N_{10}O_{10}$	0.0	40.7	1.91	1.814			1.820	103.2	-64.7		2.6065	9214	401	10057	482	9558	420	9604	9608	434	1.817	9590	424

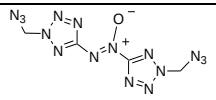
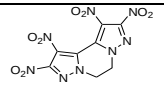
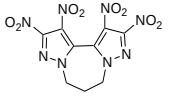
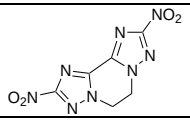
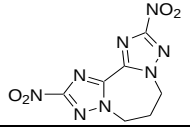
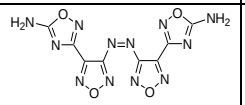
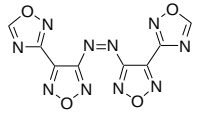
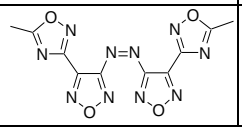
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
260	[85]		$C_3H_{10}N_{12}O_{10}$	-14.0	49.1	1.83	1.751			1.787	355.5	238.6		2.3665	8272	331	9998	477	9167	376	9329	9192	395	1.769	9230	379
261	[86]		$C_5H_2N_8O_6$	-29.6	41.5	1.90			1.971	1.897	344	410.7	341.85	2.5194	8935	383	9062	389	8479	329	8657	8783	367	1.934	8737	326
262	[87]		$C_6H_4N_8O_5$	-71.2	38.4	1.800			1.884	1.768	521.57	327.3	365.13	2.2967	7987	309	7264	222	7508	250	7594	7588	260	1.826	8099	271.4
263	[87]		$C_{10}H_4N_{10}O_6$	-71.1	38.9	1.809			1.914	1.773	639.79	505.1	430.87	2.3827	8243	325	7098	206	7431	246	7553	7581	259	1.843	8054	265.3
264	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.831			1.972	1.903	762.11	660.0	427.59	2.7975	9423	395	8102	300	7499	252	7771	8199	316	1.976	8855	342.3
265	[87]		$C_8H_2N_{10}O_9$	-33.5	36.7	1.844			1.959	1.897	882.44	482.2	361.85	2.7115	9245	388	8434	331	8552	329	8676	8727	349	1.920	8766	333.3
266	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.870			1.972	1.885	602,65	488.2	386.41	2.5973	9037	382	8102	300	7614	263	7859	8153	315	1.929	8710	327.5
267	[88]		$C_5H_2N_8O_2$	-69.9	54.4	1.753			2.056	1.729	533.3	532.2	688.02	2.3594	7990	301	8200	309	7186	225	7644	7607	263	1.893	7763	230.5

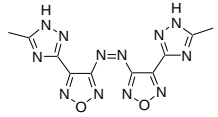
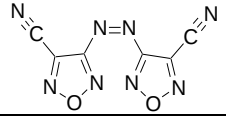
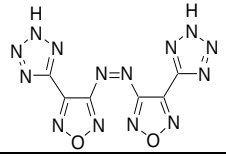
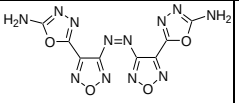
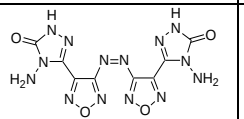
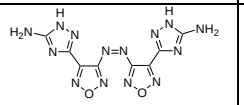
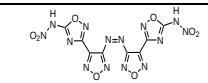
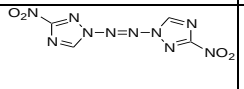
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
268	[88]		$C_6H_3N_{11}O_2$	-61.0	61.8	1.819			2.067	1.776	723.4	926.9	728.72	2.4734	8517	342	8709	357	7635	260	8169	8258	320	1.921	8312	270.4
269	[89]		$C_5H_7N_9O_2$*	-81.7	56.0	1.83			1.831	1.657	369	530.6	482.19	2.2650	8003	316	7265	222	7374	244	7715	7589	261	1.744	7520	254
270	[90]		$C_4H_5N_7$*	-111.2	64.9	1.67			1.873	1.638	361	433.8	463.70	2.1187	7121	241	-	-	6163	161	6875	6720	201	1.756	7426	181.6
271	[90]		$C_4H_3N_7O_5$	-52.8	49.7	1.94			1.949	1.856	223	194.9	252.54	2.2459	8311	354	8228	312	7952	293	8235	8182	320	1.903	8845	325.4
272	[91]		$C_6H_4N_{14}O_4$	-47.6	58.3	1.88			2.044	1.781	1336.0	1220.8	828.13	2.3467	8390	347	9171	400	8660	341	9027	8812	363	1.913	9100	317
273	[91]		$C_6H_8N_{12}$	-103.1	67.7	1.84				1.659	1124.3	842.7	873.59	1.7781	6734	246	-	-	7645	263	8043	7474	254	-	8943	364
274	[91]		$C_6H_{18}N_{18}O_4$	1.657	60.5	1.79	1.674			1.640	996.0	1190.7		2.5727	8671	345	8897	374	8145	293	8512	8556	337	1.657	8898	311

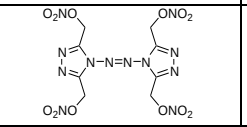
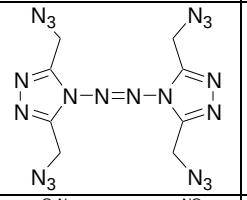
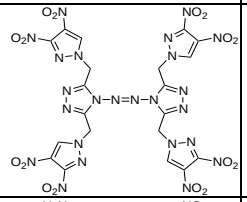
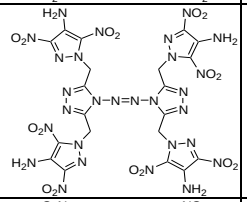
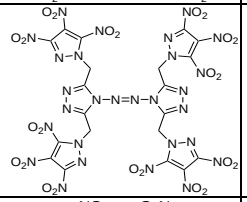
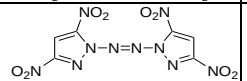
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
275	[91]		$C_6H_{10}N_{16}O_6$	-43.8	55.7	1.81	1.711			1.645	1468.2	816.1		2.4525	8430	336	9244	406	8908	353	9142	8931	365	1.678	9267	378
276	[91]		$C_6H_{12}N_{18}O_4$	-56.0	63.0	1.78	1.657			1.654	1361.5	1214.6		2.2125	7702	290	8989	383	8412	312	8765	8467	328	1.655	9214	337
277	[91]		$C_8H_{14}N_{20}O_4$	-66.9	61.7	1.84	1.636			1.644	947.3	1127.3		1.9045	7072	265	8564	343	7848	277	8260	7936	295	1.640	8978	309
278	[91]		$C_8H_{16}N_{22}O_4$	-66.1	63.6	1.79	1.624			1.656	1360	1243.2		1.7445	6517	227	8660	352	8032	285	8420	7907	288	1.640	8963	318
279	[91]		$C_8H_{16}N_{22}O_6$	-55.8	59.7	1.82	1.657			1.678	1312.9	1198.4		1.8245	6805	247	9033	387	8350	311	8654	8210	315	1.667	8978	334
280	[91]		$C_{10}H_{10}N_{20}O_4$	-70.8	59.1	1.85	1.677			1.676	1581.4	1578.3		2.2643	8067	323	8375	325	8002	289	8330	8194	312	1.676	8925	318
281	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.84	1.664			1.697	1791.1	1694.2		2.1043	7606	295	8479	335	8122	296	8461	8167	309	1.680	8976	336
282	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.85	1.664			1.686	1497.5	1694.2		2.3045	8175	329	8479	335	7934	284	8309	8224	316	1.675	8966	323

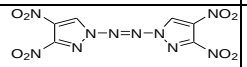
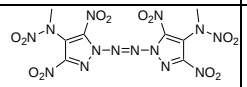
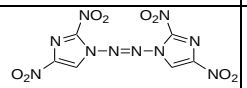
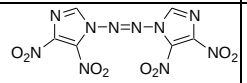
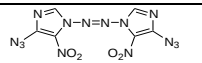
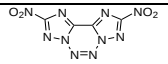
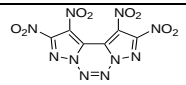
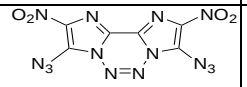
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283	[92]		$C_7H_5N_9^+$	-122.7	58.6	1.59				1.518	882.5	941.3	753.40	2.3910	7504	247	-	-	6188	157	6707	6800	202	1.724	7120	172
284	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.66				1.577	403.9	421.8	313.83	2.2557	7421	255	6492	150	6833	197	6865	6903	201	1.661	7432	204
285	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.63			1.745	1.577	408.7	421.8	313.83	2.2557	7322	245	6492	150	6754	190	6813	6845	195	1.661	7305	195
286	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.62			1.745	1.577	392.9	421.8	313.83	2.2557	7290	242	6492	150	6706	187	6777	6816	193	1.661	7243	191
287	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	243.4	313.83	2.2957	7651	274	6688	168	7097	216	7075	7128	219	1.677	7247	199
288	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.62			1.746	1.608	287.4	243.4	181.61	2.2957	7384	247	6688	168	6849	195	6900	6955	203	1.677	7268	197
289	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.65			1.746	1.608	322.4	243.4	181.61	2.2957	7484	257	6688	168	6977	205	6995	7036	210	1.677	7432	210
290	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.66			1.746	1.608	293.7	243.4	181.61	2.2957	7517	260	6688	168	7006	207	7015	7056	212	1.677	7442	211
291	[92]		$C_{10}H_6N_6O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	584.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189

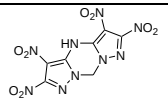
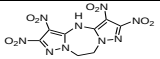
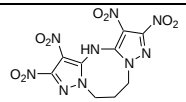
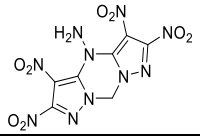
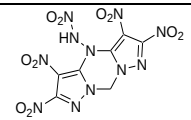
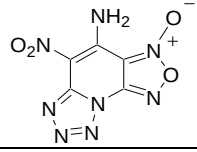
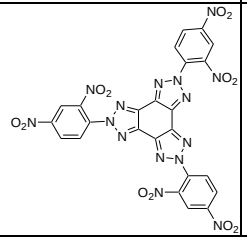
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
292	[92]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
293	[92]		$C_7H_5N_7O_4$	-79.6	39.0	1.69			1.825	1.675	369.0	427.6	368.26	2.2569	7522	265	7279	223	7051	212	7192	7261	233	1.750	7899	241
294	[92]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	449.9	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.818	8202	280
295	[92]		$C_7H_3N_7O_6$	-54.1	34.9	1.83			1.890	1.750	470.5	361.3	323.71	2.4442	8479	342	7988	289	7989	286	8022	8120	306	1.820	8298	284
296	[92]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	858.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.665	7734	262
297	[93]		$C_5H_8N_{10}O^*$	-76.1	66.7	1.57				1.534	519.8	1006.6		2.5265	7743	256	6736	172	6729	184	7423	7158	204	-	7465	190
298	[93]		$C_6H_5N_{12}O$	-79.9	64.6	1.58				1.554	869.0	1288.7		2.4331	7566	249	7446	239	6635	180	7318	7241	223	-	7262	187
299	[93]		$C_4H_4N_{12}O_7$	-14.5	50.6	1.68			1.937	1.756	345.4	804.3		2.8211	8866	333	10007	478	8035	275	8481	8847	362	1.847	8066	258

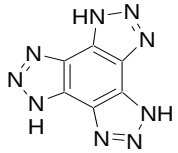
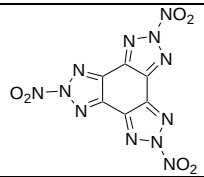
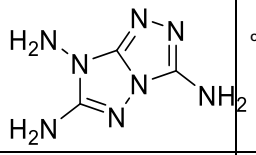
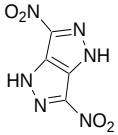
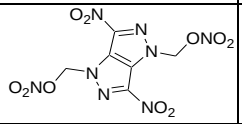
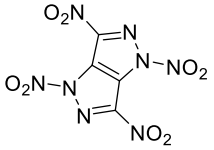
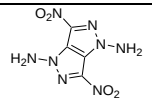
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
300	[93]		$C_4H_4N_{16}O$ *	-49.3	76.7	1.59		1.400		1.597	682.3	1799.7		2.6759	8162	279	9067	390	6631	180	7745	7901	283	1.498	7228	177
301	[94]		$C_6H_4N_8O_8$	-47.0	32.9	1.762			1.866	1.847	326.6	328.3	331.19	2.4703	8304	320	8123	302	7808	267	7864	8025	296	1.857	8135	281
302	[94]		$C_8H_6N_8O_8$	-58.7	31.6	1.677			1.803	1.772	280.1	211.7	304.39	2.3891	7801	277	7719	264	7392	232	7441	7588	258	1.788	7700	241
303	[94]		$C_6H_4N_8O_4$	-63.5	44.4	1.733			1.905	1.763	345.3	454.7	489.34	2.4583	8170	307	8059	296	7309	232	7567	7776	278	1.834	7838	241
304	[94]		$C_7H_6N_8O_4$	-78.1	42.1	1.634			1.820	1.677	307.2	430.1	462.54	2.3771	7624	261	7439	238	6832	195	7078	7243	231	1.748	7336	197
305	[95]		$C_8H_4N_{12}O_4$	-67.4	50.6	1.85				1.716	711.2	828.5	334.43	2.4981	8695	359	7919	283	7541	256	7855	8002	299	-	8445	283
306	[95]		$C_8H_2N_{10}O_4$	-68.8	46.4	1.68				1.684	832.9	807.7	289.79	2.6581	8469	312	7700	262	7135	216	7496	7700	263	-	7685	227
307	[95]		$C_{10}H_6N_{10}O_4$	-92.1	42.4	1.75				1.567	696.5	835.2	225.57	2.4957	8326	318	6730	172	6971	212	7136	7291	234	-	7781	226

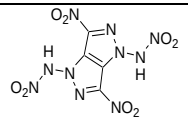
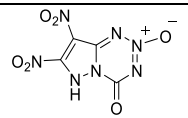
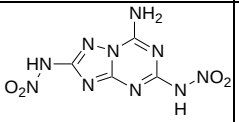
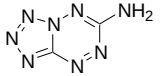
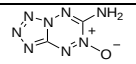
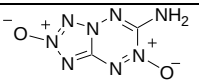
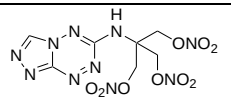
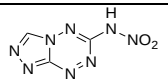
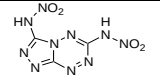
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
308	[95]		$C_{10}H_8N_{12}O_2$	-107.2	51.2	1.81				1.540	864.3	1019.7	565.19	2.2557	7912	307	6358	137	6891	211	7137	7074	218	-	8482	264
309	[95]		$C_8N_8O_2$	-74.0	51.8	1.62				1.613	933.9	810.9	654.87	2.3927	7612	258	8220	311	6980	202	7509	7580	257	-	7640	218
310	[95]		$C_8H_2N_{14}O_2$	-58.2	64.9	1.69				1.715	1224.3	1301.6	736.27	2.6207	8415	311	9053	389	7486	239	8118	8268	313	-	8477	280
311	[95]		$C_8H_4N_{12}O_4$	-67.4	50.6	1.83				1.716	684.1	828.5	266.14	2.4981	8622	350	7645	257	7451	249	7785	7876	285	-	8323	273
312	[95]		$C_8H_6N_{14}O_4$	-66.3	54.1	1.68				1.790	769.9	793.8	427.17	2.3381	7687	272	7951	286	7140	217	7590	7592	258	-	7774	224
313	[95]		$C_8H_6N_{14}O_2$*	-82.4	59.4	1.79				1.685	920.8	262	674.05	2.2581	7853	300	7693	262	7180	228	7645	7593	263	-	8458	262
314	[95]		$C_8H_2N_{14}O_8$	-34.1	46.4	2.12			2.033	1.826	1038.0	964.9	352.27	2.7127	10336	520	8875	372	9274	418	9424	9477	437	1.929	10114	461
315	[95]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.80			2.062	1.770	718	803.7	494.65	2.6609	8939	362	9602	440	8371	311	8797	8927	371	1.916	8830	335

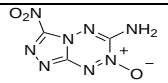
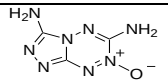
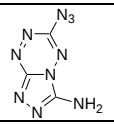
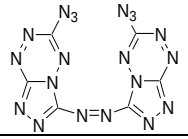
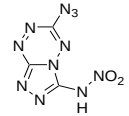
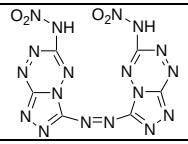
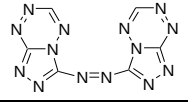
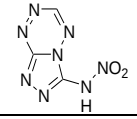
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
316	[95]		$C_8H_8N_{12}O_{12}$	-27.6	36.2	1.70			1.833	1.687	246	271.8	-161.25	2.7107	8676	327	9005	384	8091	280	8200	8493	330	1.760	8190	285
317	[95]		$C_8H_8N_{20}$*	-83.3	72.9	1.53		1.360		1.462	1940	2170.5	1601.87	2.4203	7361	231	-	-	6962	194	7657	7327	212	1.411	7690	209
318	[95]		$C_{20}H_{12}N_{24}O_{16}$	-56.8	39.8	1.74			1.889	1.742	1382	1331.9	1089.55	2.8391	9158	361	8130	303	7652	254	7799	8185	306	1.816	8070	269
319	[95]		$C_{20}H_{16}N_{28}O_{26}$	-56.6	43.4	1.75			1.879	1.763	1483	1563.8	1178.83	2.5191	8385	322	8337	322	7731	261	7904	8089	302	1.821	8190	273
320	[95]		$C_{20}H_8N_{28}O_{24}$	-31.2	38.3	1.82			1.944	1.843	1359	1298.3	1000.63	3.2683	10623	460	8785	364	8283	306	8435	9032	377	1.893	8640	323
321	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.81			1.983	1.852	687.6	677.3	343.33	2.6729	9010	368	9202	403	8559	326	8773	8886	366	1.917	8928	348

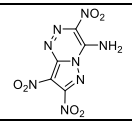
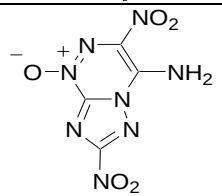
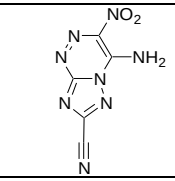
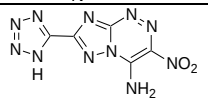
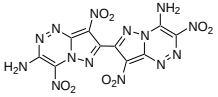
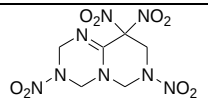
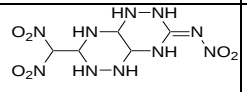
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
322	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.82			1.983	1.852	687.6	677.3	343.33	2.6729	9048	372	9202	403	8592	330	8801	8911	368	1.917	8964	351
323	[95]		$C_8H_6N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	744.1	849.9	392.65	2.7653	9212	377	9200	402	8624	330	8763	8950	370	1.864	8834	346
324	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.85			1.983	1.852	591.8	493.3	343.33	2.6729	9165	385	9202	403	8600	333	8799	8942	374	1.917	8979	356
325	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.83			1.983	1.852	612.4	493.3	343.33	2.6729	9087	376	9202	403	8554	328	8762	8901	369	1.917	8932	251
326	[95]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.77		1.470	2.107	1.712	1289.7	1379.9	960.45	2.6077	8687	342	9365	418	8175	293	8663	8722	351	1.591	8702	314
327	[96]		$C_4N_{10}O_4$	-25.4	55.6	1.901 (β), 1.91 (α)			2.146	1.949	787	861.4	647.15	2.8147	9755	431	9863	464	8674	345	9153	9361	413	2.047	9400	380
328	[96]		$C_8N_{10}O_8$	-18.8	41.2	1.89			2.044	1.994	758.5	735.0	495.83	2.8267	9743	427	9327	414	8797	353	9050	9229	398	2.019	9631	440
329	[96]		$C_8N_{14}O_4$	-38.5	59.0	1.89		1.470	2.171	1.835	1318.8	1437.6	1112.95	2.7615	9564	417	9561	436	8499	330	9014	9160	394	1.652	9256	367

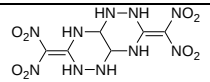
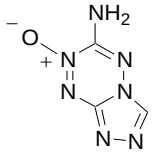
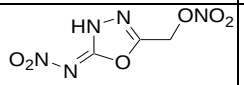
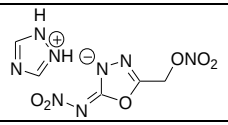
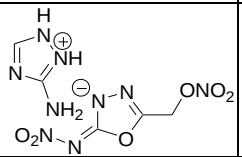
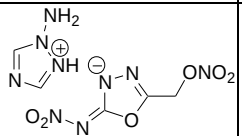
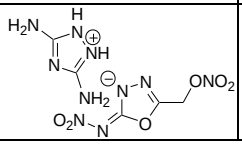
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
330	[96]		$C_7H_8N_8O_8$	-35.2	37.0	1.90			2.014	1.932	375.3	207.9	445.16	2.4715	8803	375	8664	352	8415	324	8488	8592	1.973	1.973	8792	343
331	[96]		$C_6H_5N_9O_8$	-47.3	35.5	1.80			1.949	1.847	301.9	275.3	418.36	2.3903	8232	323	8240	313	7908	277	7964	8086	304	1.898	8257	292
332	[96]		$C_8H_7N_9O_8$	-58.5	34.1	1.76			1.890	1.775	299.1	250.7	391.56	2.3091	7885	297	7847	276	7671	258	7680	7771	277	1.833	8051	272
333	[96]		$C_7H_6N_{10}O_8$	-35.9	39.3	1.79			2.005	1.929	341.9	399.0	432.55	2.4916	8460	333	8758	361	8035	285	8201	8364	326	1.967	8356	296
334	[96]		$C_7H_5N_{11}O_{10}$	-21.9	38.4	1.94			2.037	1.972	521.5	521.7	441.47	2.5989	9306	413	9127	396	8900	367	8997	9082	392	2.005	9226	388
335	[96]		$C_5H_2N_8O_4$	-47.0	47.1	1.92			1.939	1.944	908	534.7		2.5860	9194	402	8753	361	8838	360	9037	8956	374	2.030	8838	360
336	[96]		$C_{24}H_9N_{15}O_{12}$	-92.6	30.0	1.69			1.834	1.719	695.0	1257.3	1006.99	2.3272	7695	274	6535	154	6493	180	6593	6829	203	1.776	7032	199

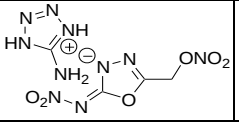
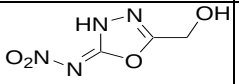
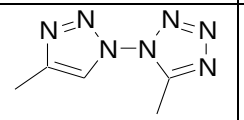
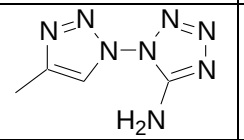
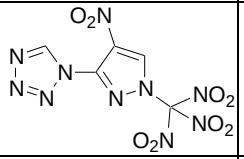
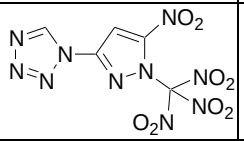
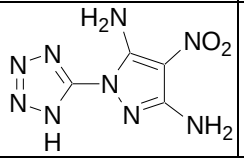
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionics	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
337	[96]		$C_6H_3N_9$	-107.4	62.7	1.77				1.811	463.0	915.2	774.94	2.3185	7943	302	-	-	5902	153	6725	6857	228	-	7160	194
338	[96]		$C_6N_{12}O_6$	-28.6	50.0	1.82				2.033	710.0	1109.3	814.41	2.9407	9757	411	9443	425	8093	292	8540	8958	376	2.119	8376	312
339	[96]		$C_3H_6N_8$	-93.4	72.7	1.73				1.774	470.5	453.8	501.24	2.2128	7542	273	-	-	7087	217	7751	7460	245	-	8580	259
340	[96]		$C_4H_2N_6O_4$	-40.4	42.4	1.85			1.950	1.942	322.6	140.9	295.21	2.3659	8340	339	8781	363	8230	305	8403	8438	336	1.946	8250	274
341	[96]		$C_8H_4N_{10}O_{10}$	-18.4	32.2	1.82			1.863	1.856	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.860	8674	331
342	[96]		$C_4N_8O_8$	0.0	38.9	1.95			2.127	2.085	550.9	295.8	291.93	2.7807	9859	448	9834	462	9443	414	9663	9700	441	2.106	9460	409
343	[96]		$C_4H_4N_8O_4$	-42.1	49.1	1.84			1.921	1.930	467.0	256.9	381.03	2.4061	8413	341	8957	380	8413	318	8626	8602	346	1.925	8864	339

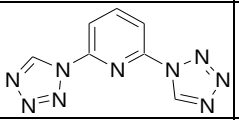
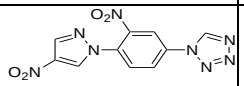
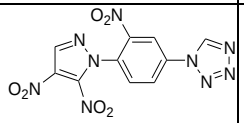
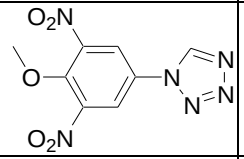
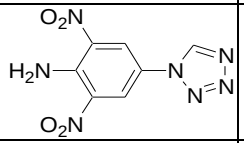
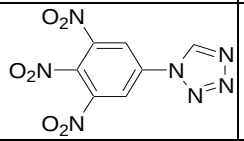
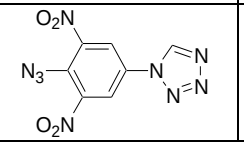
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
344	[96]		$C_4H_5N_{10}O_8$	-5.0	44.0	1.93			2.000	2.042	595.2	270.7	398.87	2.6207	9329	412	9933	471	9363	405	9594	9555	429	2.021	9507	418
345	[96]		$C_4HN_7O_6$	-16.5	40.3	2.02			2.095	2.024	131.8	224.5		2.5733	9533	445	9137	397	8855	372	9035	9140	405	2.059	8515	332
346	[96]		$C_4H_4N_{10}O_4$	-37.5	54.7	1.84			1.980	1.856	544.9	500.7	524.45	2.3534	8272	333	9345	416	8368	315	8721	8676	355	1.918	8787	342
347	[96]		$C_2H_3N_9O$	-57.9	81.1	1.68				1.714	686.2	867.5	568.83	2.5014	8086	292	-	-	7664	250	8502	8084	271	-	8449	270
348	[96]		$C_2H_2N_8O$	-41.5	72.7	1.87				1.839	631.4	805.5		2.5414	8885	374	9359	417	8551	332	9207	9000	374	-	9326	364
349	[96]		$C_2H_2N_8O_2$	-28.2	65.9	1.93				1.955	576.0	743.4		2.5814	9219	406	10037	480	8979	372	9517	9438	419	-	9600	413
350	[96]		$C_7H_8N_{10}O_9$	-38.3	37.2	1.79			1.799	1.700	246.0	251.2	14.83	2.5172	8527	337	8366	325	8261	302	8285	8360	321	1.749	9290	294
351	[96]		$C_2H_2N_8O_2$	-43.9	61.5	1.76			2.076	1.782	675.1	567.8	524.32	2.5074	8392	324	9344	416	8182	293	8678	8649	344	1.929	8621	304
352	[96]		$C_2H_4N_{10}O_4$	-19.8	57.9	1.91			2.078	1.890	740.9	709.3	555.56	2.5347	9014	390	10102	487	9086	379	9517	9430	419	1.984	9301	383

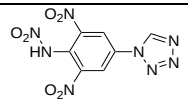
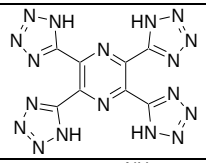
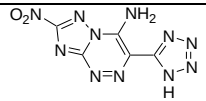
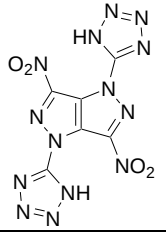
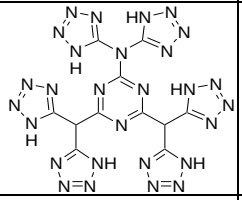
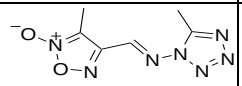
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
353	[96]		$C_3H_2N_8O_3$	-32.3	56.6	1.86			2.327	1.898	744.0	475.1		2.5474	8865	370	9622	442	8905	359	9282	9168	390	2.112	9384	391
354	[96]		$C_3H_4N_8O$	-66.6	66.7	1.82				1.794	492.0	541.4		2.3601	8221	326	7457	240	7761	269	8298	7934	278	1.937	9008	347
355	[96]		$C_3H_2N_{10}$	-62.9	78.6	1.74		1.270		1.674	913.6	1034.0	801.73	2.4748	8237	312	-	-	7732	260	8524	8164	286	1.472	8581	285
356	[96]		C_6N_{20}	-54.5	79.5	1.77		1.370		1.674	2194.6	2335.0	1626.43	2.8903	9413	381	-	-	8028	283	8889	8777	332	1.522	8690	302
357	[96]		$C_3HN_{11}O_2$	-32.3	69.1	1.85		1.456	2.196	1.782	951.8	1056.3	810.65	2.5821	8921	371	10187	494	8591	333	9255	9238	399	1.619	9236	363
358	[96]		$C_6H_2N_{18}O_4$	-36.9	64.6	1.85			2.158	1.805	2037.8	1595.0	1116.25	2.7955	9494	404	9816	460	6522	192	7846	8420	352	1.982	9500	398
359	[96]		$C_6H_2N_{14}$	-77.0	72.6	1.91				1.644	1525.2	1465.2	1053.77	2.7409	9587	423	-	-	8049	298	8676	8771	360	-	9200	348
360	[96]		$C_3H_2N_8O_2$	-43.9	61.5	1.81			2.076	1.782	647.8	659.7	524.32	2.5074	8574	344	9344	416	8292	306	8775	8746	355	1.929	8800	332

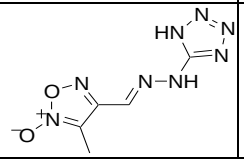
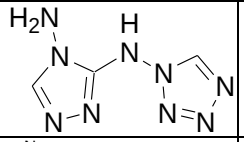
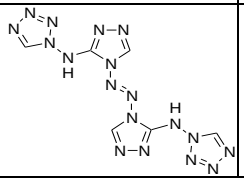
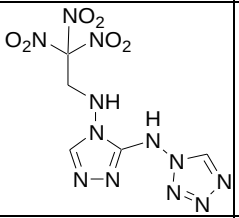
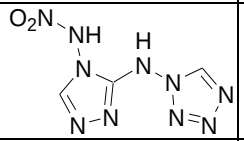
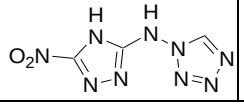
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
361	[96]		$C_5H_6N_8O_2$	-29.6	41.5	1.95			1.971	1.897	370.0	410.7	341.85	2.5194	9118	404	9062	389	8123	307	8379	8670	367	1.934	8998	360
362	[96]		$C_4H_2N_8O_4$	-26.4	46.3	1.90 (predicted)			1.937	2.095	378.0	384.1		2.5534	9029	388	9389	420	8594	338	8850	8966	382	2.016	8970	354
363	[96]		$C_5H_3N_9O_2$	-69.9	54.4	1.81			2.056	1.729	533.5	664.6	688.02	2.3594	8185	322	8200	309	7349	240	7773	7877	290	1.893	7763	231
364	[96]		$C_6H_5N_{11}O_2$	-61.0	61.8	1.82			2.067	1.776	752.7	926.9	728.72	2.4734	8521	343	8709	357	7685	264	8207	8280	321	1.921	8312	270
365	[96]		$C_{10}H_4N_{14}O_8$	-50.0	43.7	1.85			1.971	1.859	899.0	912.2	748.55	2.5575	8669	347	8484	336	7876	275	8104	8283	319	1.915	8572	314
366	[96]		$C_6H_6N_8O_8$	-40.0	35.0	1.86			1.933	1.748	124.76	223.3	166.22	2.4573	8621	356	8328	321	8527	329	8430	8476	335	1.841	8798	338.7
367	[96]		$C_5H_{10}N_{10}O_8$	-47.0	45.7	1.73			1.832	1.791	304.2	-66.5	184.42	1.8909	6733	230	8532	340	8130	286	8247	7910	285	1.812	8492	294

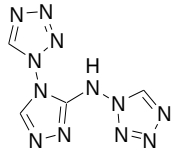
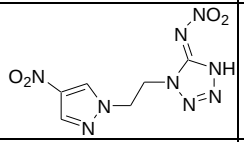
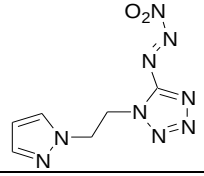
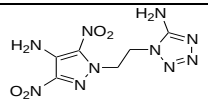
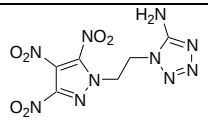
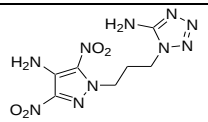
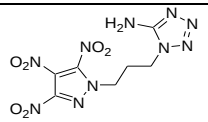
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
368	[96]		$C_7H_8N_8O_8$			1.85			1.892	1.876	348.2	35.0	270.09	1.9041	7098	268	8665	352	8610	334	8622	8249	318	1.884	8862	352
369	[97]		$C_2H_3N_7O$	-67.9	64.0	1.70				1.768	524.3	483.5		2.4401	8007	292	7641	257	7487	240	8012	7787	263	1.937	8215	255
370	[98]		$C_3H_3N_5O_6$	-11.7	34.1	1.875			1.794	1.796	26.13	-21.4	-152.23	2.4461	8644	361	8732	359	8858	357	8880	8778	359	1.795	8855	349.9
371	[98]		$C_5H_6N_8O_6$	-40.9	40.9	1.772	1.748			1.721	569.08	163.2		2.4049	8172	314	8237	312	7815	268	7988	8053	298	1.735	8630	319.8
372	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.780	1.733			1.717	600.04	221.1		2.1783	7614	285	8361	324	8584	325	8651	8302	311	1.725	8725	321.2
373	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.802	1.733			1.707	667.09	221.1		2.2784	7946	307	8518	339	8732	338	8781	8494	328	1.720	8877	337.1
374	[98]		$C_5H_8N_{10}O_6$	-42.1	46.0	1.814	1.719			1.733	508.38	279.1		2.0983	7511	286	8622	348	7910	279	8153	8049	304	1.726	8821	321.2

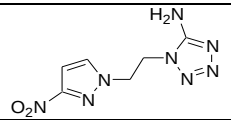
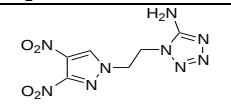
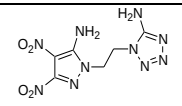
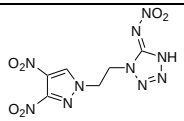
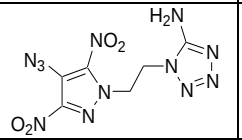
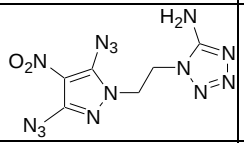
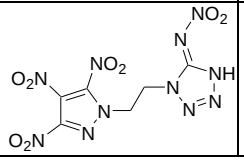
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
375	[98]		$C_4H_8N_{10}O_6$	-27.6	48.3	1.796	1.768			1.709	784.44	308.5		2.2796	7929	305	9166	399	8990	358	9162	8812	354	1.739	9142	365.7
376	[98]		$C_3H_4N_4O_4$	-40.0	35.0	1.811			1.943	1.678	-75.57	-107.6	-161.48	2.3388	8134	320	7855	277	8042	288	8047	8020	295	1.810	8140	272.2
377	[99]		$C_5H_7N_7$*	-130.8	59.4	1.47				1.414	699.62	812.5	481.10	2.3378	6973	203	-	-	6223	151	6701	6632	177	-	7725	245
378	[99]		$C_4H_6N_8$*	-105.9	67.4	1.52				1.536	747.17	895.0	535.53	2.3390	7146	219			6741	181	7292	7060	200	-	7724	203
379	[99]		$C_5H_2N_{10}O_8$	-14.5	42.4	1.79			1.991	1.886	602	582.9	396.52	2.7469	9124	370	9554	435	8641	330	8898	9054	378	1.938	8860	340
380	[99]		$C_5H_2N_{10}O_8$	-14.5	42.4	1.76			1.991	1.886	629	582.9	396.52	2.7469	9005	357	9554	435	8566	321	8834	8990	371	1.938	8780	320
381	[99]		$C_4H_5N_9O$	-64.4	59.7	1.76			1.933	1.772	407.7	483.3	493.71	2.2461	7724	288	8209	310	6410	180	7360	7426	259	1.853	8257	259

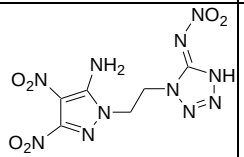
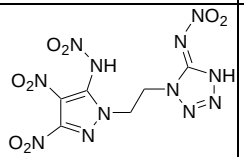
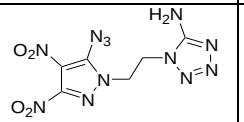
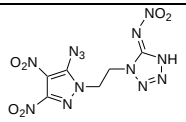
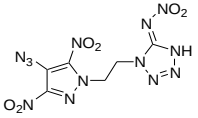
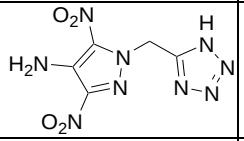
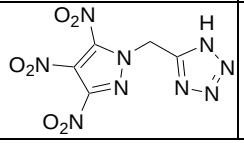
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
382	[99]		$C_7H_5N_9$	-122.7	58.6	1.59				1.518	882.5	941.3	753.40	2.3910	7504	247	-	-	6188	157	6707	6800	202	1.724	7120	172
383	[99]		$C_{10}H_6N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	676.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
384	[99]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
385	[99]		$C_8H_6N_8O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	335.4	181.61	2.2957	7651	274	6859	184	7097	216	7075	7170	225	1.677	7274	199
386	[99]		$C_7H_5N_7O_4$	-79.6	39.0	1.69			1.825	1.675	369.0	427.6	368.26	2.2569	7522	265	7279	223	7051	212	7192	7261	233	1.750	7899	241
387	[99]		$C_7H_3N_7O_6$	-54.1	34.9	1.83			1.890	1.750	470.5	453.2	323.71	2.4442	8479	342	7988	289	7989	286	8022	8120	306	1.820	8298	284
388	[99]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	950.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.516	7734	262

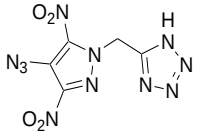
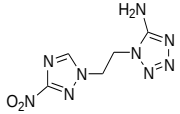
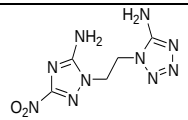
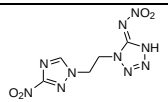
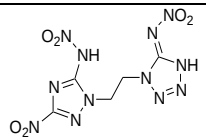
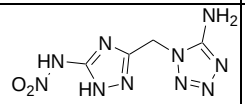
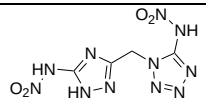
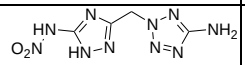
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
389	[99]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	541.8	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.755	8208	280
390	[99]		$C_6H_4N_{18}$	-81.8	71.6	1.95				1.681	1383	1778.2	1343.61	2.4267	8856	389	-	-	7518	263	8191	8188	326	-	8655	280
391	[99]		$C_5H_5N_{11}O_2$	-61.0	61.8	1.87			2.067	1.776	721.6	926.9	728.72	2.4734	8700	363	8709	357	7783	275	8293	8371	332	1.921	9010	328
392	[99]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
393	[99]		$C_{11}H_8N_{28}$	-78.1	73.7	1.88				1.664	1833.0	2719.1	2025.10	2.5203	8865	375	-	-	7280	241	8065	8070	308	-	7430	251
394	[99]		$C_6H_7N_7O_2$	-103.3	46.9	1.531				1.490	568.96	537.6		2.3438	7194	223	6118	115	6644	177	6903	6715	172	-	6900	192.4

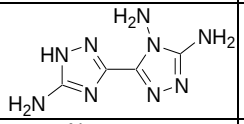
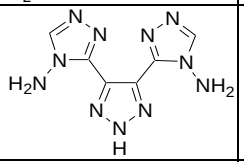
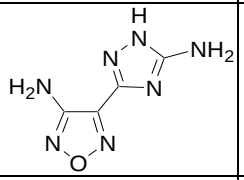
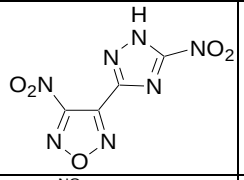
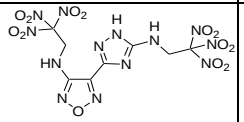
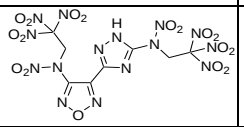
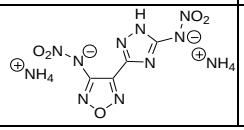
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
395	[99]		$C_5H_6N_8O_2$	-83.8	53.3	1.62				1.595	760.2	525.0		2.2449	7264	241	7169	213	7407	228	7685	7381	227	-	7991	235
396	[99]		$C_3H_5N_9$	-81.4	75.4	1.65				1.662	862.9	550.5	621.11	2.3402	7591	262	-	-	7632	245	8236	7820	254	-	8789	277
397	[99]		$C_6H_6N_{18}$	-72.7	76.3	1.68				1.661	1799.4	1586.1	1265.19	2.6211	8378	307	-	-	7669	250	8357	8135	278	-	8599	276
398	[99]		$C_5H_6N_{15}O_6$	-33.9	50.9	1.77			1.927	1.772	1091.8	690.7	558.48	2.4997	8409	327	9346	416	8791	339	9032	8894	361	1.849	9004	349
399	[99]		$C_3H_4N_{10}O_2$	-45.3	66.0	1.78			2.027	1.777	923.3	787.3	630.03	2.4475	8310	323	9240	406	8591	325	9065	8802	351	1.902	9141	336
400	[99]		$C_2H_3N_9O_2$	-44.6	64.0	1.74			2.050	1.787	950.6	484.1	555.97	2.4274	8117	305	9288	411	8541	317	9016	8740	344	1.918	8885	321

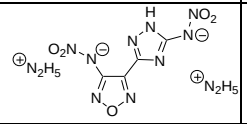
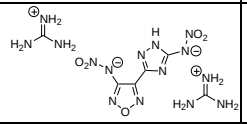
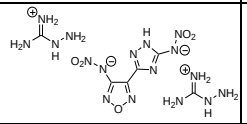
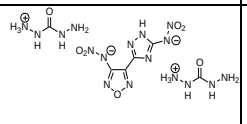
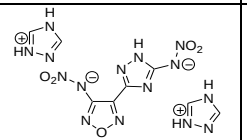
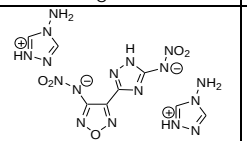
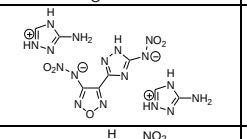
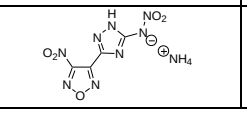
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
401	[99]		$C_4H_4N_{12}$	-72.7	76.3	1.71				1.683	1256.5	964.8	908.36	2.5876	8409	315	-	-	7848	265	8514	8257	290	-	9695	284
402	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.65			1.818	1.649	463	602.4	405.89	2.3711	7665	266	7941	285	7337	226	7571	7628	259	1.734	7824	231
403	[99]		$C_6H_7N_{10}O_4$	-91.1	53.2	1.50			1.827	1.509	522.3	818.5	475.60	2.3912	7192	218	6873	185	6435	164	6895	6849	189	1.668	7041	163
404	[99]		$C_6H_6N_{10}O_4$	-67.6	49.3	1.67			1.992	1.678	373.7	565.3	450.79	2.2911	7539	263	8057	296	7277	224	7569	7610	261	1.835	7889	232
405	[99]		$C_6H_4N_{10}O_6$	-45.8	44.6	1.71			1.873	1.745	430.7	594.0	406.24	2.4784	8138	301	8689	355	7817	263	8033	8169	306	1.809	8172	271
406	[99]		$C_7H_{10}N_{10}O_4$	-80.5	47.0	1.65			1.920	1.611	364.6	540.7	430.15	2.2099	7278	246	7503	244	7069	210	7301	7288	233	1.765	7768	218
407	[99]		$C_7H_8N_{10}O_6$	-58.5	42.7	1.67			1.805	1.676	437.3	569.4	385.60	2.3972	7797	276	8205	310	7565	242	7725	7823	276	1.740	7959	247

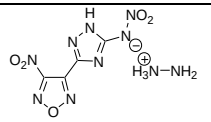
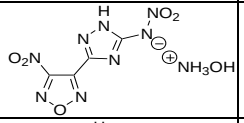
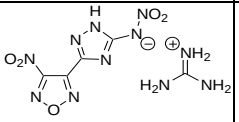
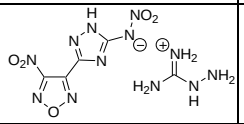
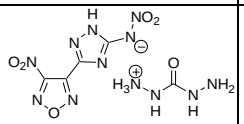
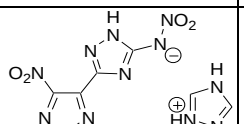
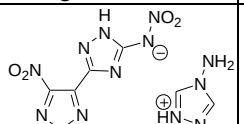
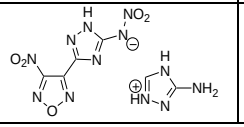
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
408	[99]		$C_6H_8N_8O_2$	-99.9	50.0	1.53			1.920	1.552	355.8	610.8	450.70	2.2638	7013	214	6285	130	6330	160	6730	6590	168	1.736	7072	168
409	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.59			1.818	1.659	394.7	602.4	428.47	2.3711	7458	245	7941	285	7067	205	7363	7457	245	1.739	7516	206
410	[99]		$C_6H_8N_{10}O_4$	-67.6	49.3	1.68			1.992	1.678	369.0	565.3	450.79	2.2911	7573	266	8057	296	7300	227	7588	7630	263	1.835	7883	230
411	[99]		$C_6H_6N_{10}O_6$	-45.8	44.6	1.69			1.873	1.735	485.6	594.0	383.66	2.4784	8066	293	8689	355	7814	261	8031	8150	303	1.804	8114	267
412	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.70		1.443	1.938	1.674	784.9	1090.9	714.80	2.4458	8021	293	8660	352	7692	253	8051	8106	299	1.558	8185	261
413	[99]		$C_6H_6N_{14}O_2$	-67.9	64.0	1.63		1.384	2.005	1.608	1057.8	1480.6	1023.36	2.4132	7695	264	8334	322	7286	221	7842	7789	269	1.496	7917	231
414	[99]		$C_6H_5N_{11}O_8$	-29.0	42.9	1.77			1.914	1.788	516.3	585.6	361.43	2.4391	8253	318	9155	398	8337	305	8529	8568	340	1.851	8555	316

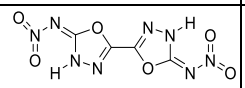
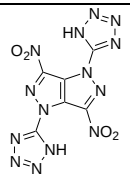
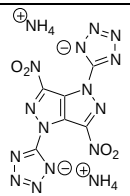
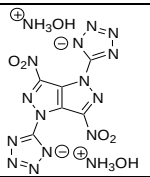
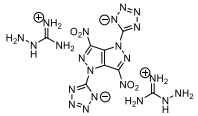
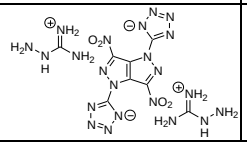
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
415	[99]		$C_6H_7N_{11}O_6$	-46.2	46.8	1.76			2.045	1.731	455.8	556.9	405.98	2.2518	7738	289	8778	363	7990	279	8201	8177	310	1.888	8388	288
416	[99]		$C_6H_6N_{12}O_8$	-29.9	44.9	1.84			1.907	1.791	501.8	579.1	414.90	2.3591	8287	334	9224	405	8534	327	8712	8689	355	1.849	8804	342
417	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.71		1.443	1.938	1.674	727.2	1090.9	714.80	2.4458	8057	297	8660	352	7657	252	8024	8100	300	1.558	8186	263
418	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.81		1.544	1.971	1.453	812.5	1082.5	669.99	2.4065	8309	329	9209	403	8336	309	8634	8622	347	1.498	8748	327
419	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.78		1.544	1.971	1.724	844.4	1082.5	669.99	2.4065	8204	318	9209	403	8270	301	8579	8566	341	1.634	8659	318
420	[99]		$C_6H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	439.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
421	[99]		$C_6H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	468.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345

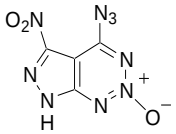
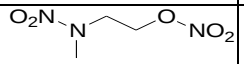
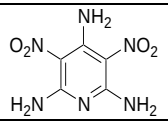
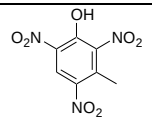
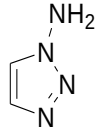
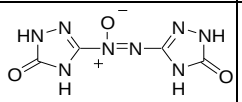
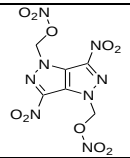
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
422	[99]		$C_5H_5N_{11}O_4$	-42.7	54.8	1.81		1.473	2.031	1.741	782.1	965.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
423	[99]		$C_5H_7N_9O_2$	-81.7	56.0	1.58			2.009	1.589	382.8	637.9	504.13	2.3651	7410	241	7265	222	6690	183	7181	7136	215	1.799	7395	188
424	[99]		$C_5H_6N_{10}O_2$	-79.9	58.3	1.66			1.825	1.614	359.4	695.9	526.45	2.2851	7492	259	7349	230	6879	200	7390	7278	230	1.720	7807	216
425	[99]		$C_5H_6N_{10}O_4$	-53.3	51.8	1.66			1.892	1.663	476.8	629.5	459.32	2.3258	7590	264	8668	353	7534	240	7887	7920	286	1.777	8113	256
426	[99]		$C_5H_6N_{12}O_6$	-33.9	50.9	1.69			1.927	1.753	511.5	709.7	490.56	2.3531	7758	277	9346	416	7947	270	8299	8338	321	1.840	8690	322
427	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.71			1.919	1.699	476.2	659.1	557.65	2.2662	7611	273	8236	312	7406	236	7929	7796	274	1.809	8187	249
428	[99]		$C_4H_5N_{11}O_4$	-38.4	56.8	1.81			1.966	1.785	285.0	742.7	566.57	2.3735	8222	324	9388	420	7847	274	8356	8453	339	1.875	8750	318
429	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.72			1.919	1.699	462.8	659.1	557.65	2.2662	7644	277	8236	312	7411	237	7937	7807	275	1.809	8213	252

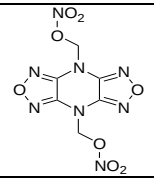
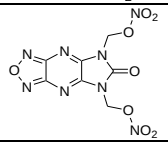
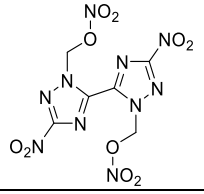
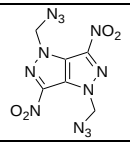
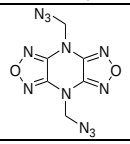
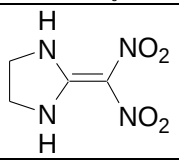
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
430	[100]		$C_4H_7N_9$*	-101.6	69.6	1.68				1.670	396.8	544.9	538.26	2.0588	7006	237	-	-	6392	174	7191	6863	206	-	7818	204
431	[100]		$C_6H_7N_{11}$*	-106.4	66.1	1.65				1.648	763.0	784.7	772.08	2.2049	7266	246	-	-	6508	178	7128	6967	212	-	7806	207
432	[101]		$C_4H_5N_7O$	-91.0	58.7	1.596				1.685	404.03	366.9	325.54	2.1587	6986	223	5873	92	6656	182	7161	6669	166	-	6846	193
433	[101]		$C_4HN_7O_5$	-24.7	43.2	1.863			2.013	1.883	499.91	234.2	236.44	2.5333	8837	369	9321	414	8668	340	8907	8933	374	1.948	9152	371
434	[101]		$C_8H_7N_{13}O_{13}$	-21.1	36.9	1.908			1.869	1.822	451.38	340.8	200.28	2.4777	8849	379	9135	396	8962	369	8980	8982	381	1.845	9087	381
435	[101]		$C_8H_5N_{15}O_{17}$	-4.1	36.0	1.932			1.920	1.891	648.95	446.6	206.88	2.8925	10100	458	9560	436	9383	407	9455	9624	434	1.905	9355	401
436	[101]		$C_4H_9N_{11}O_5$	-41.2	52.9	1.822	1.691			1.676	246.19	473.3		2.5993	8861	362	9163	399	8274	306	8549	8712	356	1.683	8897	319

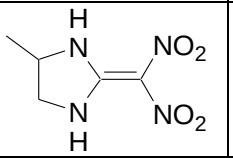
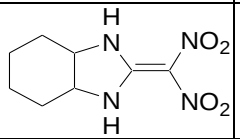
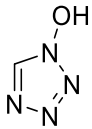
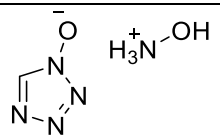
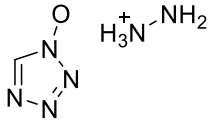
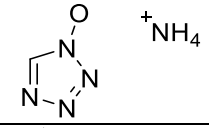
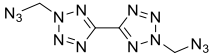
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
437	[101]		$C_4H_{11}N_{13}O_5$	-42.3	56.7	1.834	1.669			1.691	616.05	589.2		2.2391	7947	313	9281	410	8716	341	8949	8723	355	1.680	9045	349
438	[101]		$C_6H_{13}N_{15}O_5$	-57.6	56.0	1.659	1.641			1.673	249.08	501.9		1.9311	6635	215	8748	360	7260	222	7740	7596	266	1.657	7942	229
439			$C_6H_{15}N_{17}O_5$	-57.2	58.8	1.679	1.627			1.685	656.43	571.8		1.7711	6301	201	8872	372	7723	254	8109	7751	276	1.656	8455	265
440	[101]		$C_6H_{15}N_{17}O_7$	-45.7	54.5	1.687	1.665			1.710	607.27	527.0		1.8511	6517	213	9198	402	8000	273	8300	8004	296	1.688	8159	277
441			$C_8H_9N_{15}O_5$	-62.7	53.2	1.780	1.691			1.711	833.73	906.9		2.2909	7905	301	8466	334	7763	266	8055	8047	300	1.701	8341	264
442	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.761	1.674			1.721	1103.75	1068.9		2.3311	7945	300	8604	347	7934	276	8233	8179	308	1.698	8642	291
443	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.752	1.674			1.735	804.55	1068.9		2.1309	7405	269	8604	347	7640	255	8006	7914	290	1.704	8373	268
444	[101]		$C_4H_5N_9O_5$	-34.0	48.6	1.815	1.763			1.761	349.86	415.1		2.5663	8748	354	8998	384	8371	312	8610	8682	350	1.762	8716	326

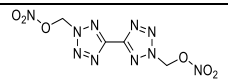
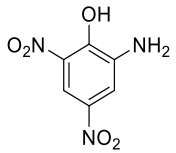
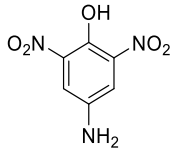
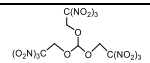
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
445	[101]		$C_4H_8N_{10}O_5$	-35.0	51.1	1.847	1.746			1.766	519.39	473.0		2.3862	8384	340	9297	411	8677	339	8892	8812	363	1.756	9060	358
446	[101]		$C_4H_5N_9O_6$	-26.2	45.8	1.844	1.785			1.757	402.73	273.8		2.5062	8695	357	9383	419	8747	344	8913	8934	373	1.771	8954	357
447	[101]		$C_5H_7N_{11}O_5$	-45.2	51.2	1.677	1.722			1.746	309.89	429.4		2.2322	7419	258	8964	380	7576	244	7951	7978	294	1.734	7990	247
448	[101]		$C_5H_8N_{12}O_5$	-45.5	53.2	1.670	1.709			1.751	502.18	441.3		2.1522	7202	246	9033	387	7771	256	8120	8032	296	1.730	8187	258
449	[101]		$C_5H_8N_{12}O_6$	-38.5	50.6	1.676	1.730			1.765	468.58	464.9		2.1922	7319	252	9196	402	7932	267	8238	8171	307	1.748	8256	270
450	[101]		$C_6H_5N_{11}O_5$	-48.8	49.5	1.720	1.751			1.770	620.12	654.9		2.4121	8008	296	8778	363	7773	261	8084	8161	307	1.760	8197	271
451	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.748	1.737			1.774	719.34	712.8		2.4322	8157	309	8853	370	7962	276	8261	8308	318	1.756	8424	288
452	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.716	1.737			1.784	570.70	712.8		2.3321	7795	284	8853	370	7697	255	8048	8098	303	1.760	8151	263

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
453	[102]		$C_4H_2N_8O_6$	-18.6	43.4	1.99			1.981	1.849	159.8	313.1	66.11	2.3467	8765	392	8566	343	8790	363	9006	8782	366	1.915	9457	403.9
454	[103]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
455	[103]		$C_6H_8N_{16}O_4$	-52.1	60.9	1.69	1.705			1.724	916.8	1181.2		2.9267	9167	350	9072	390	7682	252	8171	8523	331	1.715	8404	262
456	[103]		$C_6H_8N_{16}O_6$	-40.0	56.0	1.61	1.740			1.760	1062.2	803.5		2.8065	8545	302	9369	418	7853	255	8262	8507	325	1.750	8237	260
457	[103]		$C_6H_{10}N_{18}O_4$*	-63.0	63.9	1.75	1.648			1.720	1223.0	945.3		2.0985	7316	264	8793	364	7746	262	8223	8020	297	1.684	9082	313
458	[103]		$C_6H_{14}N_{22}O_4$*	-63.0	63.9	1.64	1.648			1.720	1143.3	1325.7		2.0985	6981	230	8793	364	7344	226	7893	7753	273	1.684	8396	249

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
459	[104]		$C_4HN_9O_3$	-39.4	56.5	1.86		1.441	2.206	1.828	744.75	878.6		2.5007	8738	363	9441	425	8378	317	8823	8845	368	1.821	9111	351.4
460	[26]		$C_3H_7N_3O_5$	-43.6	25.5	1.53			1.364	1.547	-150.0	-125.7	-191.46	2.4444	7414	233	7345	229	7676	236	7536	7493	233	1.456	8050	259
461	[38]		$C_6H_6N_6O_4$	-67.2	39.2	1.82			1.744	1.726	-38.9	11.1	156.76	2.0308	7350	278	7663	259	7393	244	7488	7474	260	1.735	7749	224
462	[38]		$C_7H_5N_3O_7$	-62.5	17.3	1.62			1.764	1.677	-252.3	-216.1	-195.28	2.2356	7242	239	6987	196	7558	237	7385	7293	224	1.720	6763	180
463	[24]		$C_2H_4N_4^+$	-114.2	66.6	1.441				1.523	285.6	278.6	258.07	2.2528	6697	187	-	-	6268	151	6882	6616	169	-	7767	19.5
464	[24]		$C_4H_4N_8O_3$	-52.8	52.8	1.91				1.868	11	260.3		2.1659	7991	330	7983	289	7357	249	7908	7810	289	1.901	8204	243.9
465	[105]		$C_6H_4N_8O_{10}$	-18.4	32.2	1.82			1.863	1.884	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.873	8674	331

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
466	[105]		$C_6H_4N_8O_8$	-30.4	35.4	1.84			1.874	1.853	276.6	185.4	-45.93	2.6183	8980	373	8546	341	8449	321	8493	8617	345	1.864	8669	334
467	[105]		$C_7H_4N_8O_8$	-39.0	34.1	1.79			1.870	1.840	-7.2	-3.4	-25.84	2.6909	8979	362	7994	290	7746	265	7860	8145	306	1.855	8057	273
468	[105]		$C_6H_4N_{10}O_{10}$	-17.0	37.2	1.83			1.908	1.839	113.6	179.5	97.25	2.7457	9281	387	9065	390	8460	321	8604	8852	366	1.873	8639	327
469	[105]		$C_6H_4N_{12}O_4$	-51.9	54.5	1.71		1.443	2.006	1.699	946.3	1056.6	867.77	2.5531	8324	310	8868	371	7816	263	8209	8304	315	1.571	8292	276
470	[105]		$C_6H_4N_{12}O_2$	-69.5	60.9	1.68		1.357		1.652	1100.2	1180.7	835.63	2.4731	8017	289	8304	319	7484	238	7971	7944	282	1.504	8323	278
471	[47]		$C_4H_6N_4O_4$	-64.3	32.2	1.69			1.717	1.668	-5.7	-56.0	75.27	2.1575	7278	253	7097	206	7566	244	7483	7356	234	1.692	8394	286

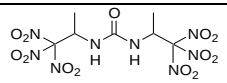
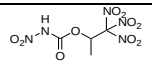
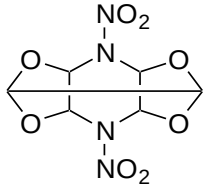
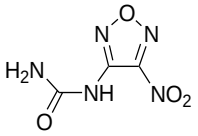
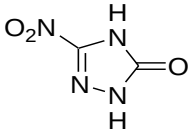
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
472	[47]		$C_5H_8N_4O_4$	-85.0	29.8	1.62			1.618	1.567	53.3	-80.6	34.29	2.0763	6867	221	6292	131	7225	217	7087	6868	190	1.593	7720	230
473	[47]		$C_8H_{12}N_4O_4$*	-126.2	24.6	1.54			1.478	1.472	107.4	-96.6	39.01	1.8399	6097	173	4706	-17	6387	164	6239	5857	160	1.475	7251	177
474	[106]		CH_2N_4O	-37.2	65.1	1.63			2.075	1.681	252	238.1	111.87	2.4741	7840	271	8682	354	7977	265	8516	8254	297	1.825	8405	269
475	[106]		$CH_5N_5O_2$	-33.6	58.8	1.67	1.646			1.634	343	192.2		2.4269	7869	280	8814	366	7818	259	8333	8208	302	1.785	9284	331
476	[106]		CH_6N_6O	-54.2	71.2	1.60	1.553			1.594	259	296.3		2.3069	7343	241	6198	122	7838	253	8394	7443	205	1.574	9437	319
477	[106]		CH_5N_5O	-54.3	67.9	1.40	1.568			1.562	207	333.4		2.4870	7646	250	6287	131	7683	240	8207	7456	207	1.574	8013	213
478	[107]		$C_4H_4N_{14}$	-64.5	79.0	1.62		1.311	2.147	1.551	1258	1596.1	1130.13	2.5885	8073	281	-	-	7444	230	8238	7918	256	1.670	8155	237

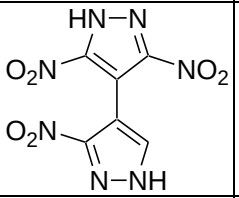
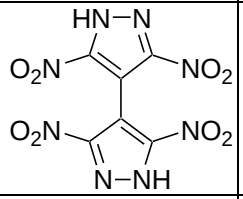
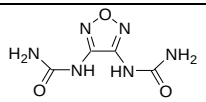
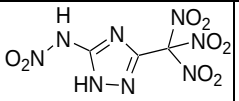
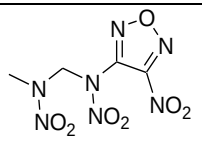
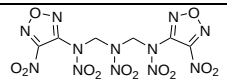
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
479	[107]		$C_4H_4N_{10}O_6$	-22.2	48.6	1.69			1.955	1.764	441	600.8	248.57	2.7337	8693	326	9054	389	8152	284	8496	8599	333	1.860	8377	286
480	[108]		$C_6H_5N_3O_5$	-76.3	21.1	1.69			1.744	1.679	-262.4	-201.8	-118.62	2.1295	7209	249	6451	146	6726	193	6635	6755	196	1.712	6553	162
481	[109]		$C_6H_5N_3O_5$	-76.3	21.1	1.78			1.744	1.679	-0.5	-201.8	-118.62	2.1295	7488	279	6451	146	7465	246	7179	7146	224	1.712	7458	225
482	[110]		$C_7H_7N_9O_{21}$	10.1	22.8	1.81			1.785	1.851	-1021	-519.9	-781.13	2.9306	9687	405	8675	353	8741	340	8702	8951	366	1.818	-	-

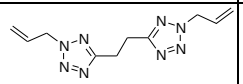
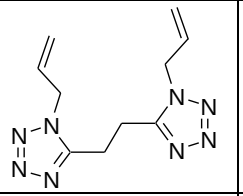
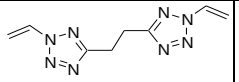
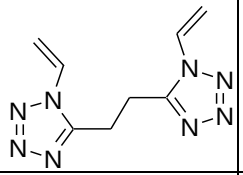
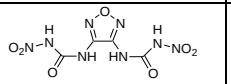
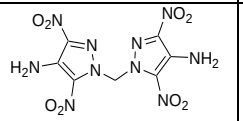
2.1 Categories

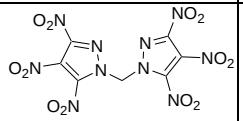
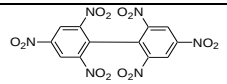
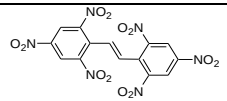
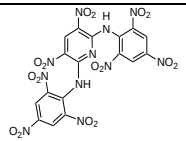
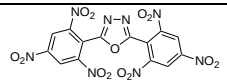
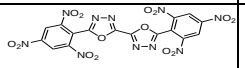
2.1.1 Neutral Compounds

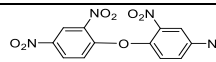
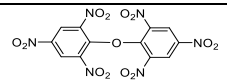
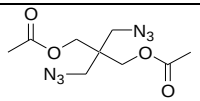
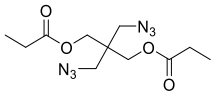
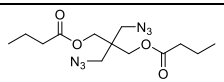
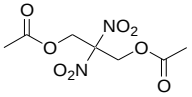
Table 12. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure (P_{C-J}), heat of formation and density for the selected neutral compounds at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

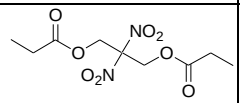
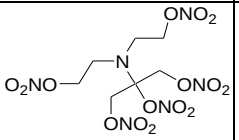
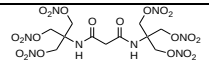
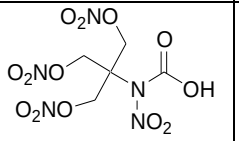
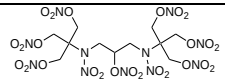
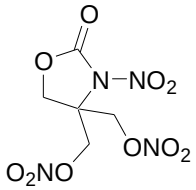
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1	[22]		$C_7H_{10}N_8O_{13}$	-23.2	27.1	1.82			1.697	1.712	-367	-379.3	-354.36	2.3759	8263	328	8400	328	8547	326	8388	8399	327	1.704	8469	321
2	[22]		$C_4H_5N_5O_{10}$	-2.8	24.7	1.58			1.747	1.792	-368	-332.1	-431.07	2.5249	7777	259	8582	345	7953	259	8006	7912	259	1.770	7680	228
3	[23] [24]		$C_6H_6N_4O_8$	-42.7	21.4	1.985			1.769	2.007	-541	-35.5	-372.31	2.3697	8822	394	6896	187	8139	311	7832	8092	319	1.888	8615	343
4	[25]		$C_3H_3N_5O_4$	-32.4	40.5	1.68			1.862	1.811	63	-134.6	49.68	2.2660	7511	263	8516	339	7751	255	7979	7939	286	1.837	7759	236
5	[23] [26]		$C_2H_2N_4O_3$	-24.6	43.1	1.916			1.900	1.882	-97	-163.7	48.90	2.2799	8327	351	8753	361	8081	300	8396	8389	337	1.891	8543	305

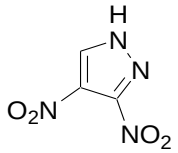
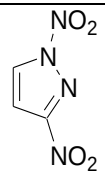
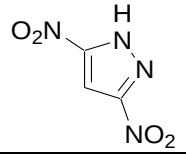
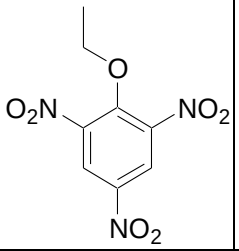
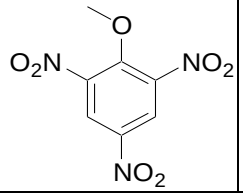
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6	[27]		$C_6H_3N_7O_6$	-44.6	36.4	1.855			1.897	1.854	224.9	141.1	277.16	2.3180	8228	333	8365	324	8019	290	7997	8123	313	1.876	8256	286
7	[27]		$C_6H_2N_8O_8$	-25.5	35.7	1.820			1.940	1.927	227.8	132.6	254.93	2.4253	8394	336	8908	375	8232	303	8379	8478	338	1.933	8520	311
8	[25]		$C_4H_6N_6O_3^*$	-68.8	45.2	1.95			1.742	1.697	-162	-261.1	30.18	1.9647	7547	311	6885	186	7281	246	7590	7326	248	1.720	8283	245
9	[28]		$C_3H_2N_8O_8^*$	5.8	40.3	1.91			2.064	1.957	269	278.6	173.26	2.5007	8920	384	9750	454	9397	406	9580	9409	414	2.010	9250	369
10	[29]		$C_4H_5N_7O_7$	-21.3	37.3	1.74			1.921	1.767	265	172.9	83.91	2.5524	8433	322	9184	401	8579	320	8644	8710	348	1.844	8596	322
11	[29]		$C_6H_4N_{12}O_{12}$	-7.3	38.5	1.90			1.932	1.884	603	391.8	195.66	2.8731	9912	440	9600	440	9248	392	9364	9531	424	1.908	9334	393

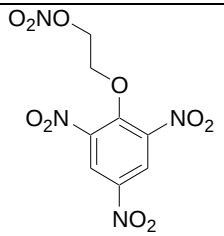
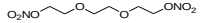
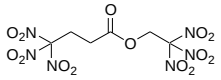
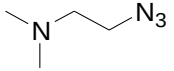
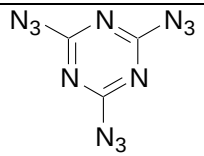
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12	[30]		$C_{10}H_{14}N_8^*$	-175,4	45.5	1.2				1.255	605	602.3	661.55	1.9663	5408	105	-	-	4514	68	5243	5055	86	-	6148	99
13	[30]		$C_{10}H_{14}N_8^*$	-175.4	45.5	1.2				1.255	622	602.3	661.55	1.9663	5408	105	-	-	4535	69	5257	5067	87	-	6167	99
14	[30]		$C_8H_{10}N_8^*$	-154.0	51.4	1.4				1.324	635	651.5	702.83	2.1287	6310	164	-	-	5284	105	5843	5812	134	-	7109	148
15	[30]		$C_8H_{10}N_8^*$	-154.0	51.4	1.4				1.324	643	651.5	702.83	2.1287	6310	164	-	-	5296	106	5852	5819	135	-	7132	149
16	[25]		$C_4H_2N_8O_7$	-17.4	34.1	1.87			1.892	1.875	-22	-183.9	116.31	2.1793	7901	317	8908	375	8487	327	8671	8492	340	1.883	8685	322
17	[31]		$C_7H_6N_{10}O_8$	-40.2	39.1	1.802			1.858	1.838	205	224.0	320.11	2.3843	8223	323	8642	350	8016	285	8132	8253	319	1.848	8332	296

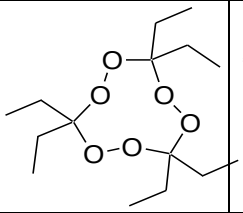
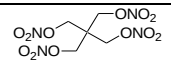
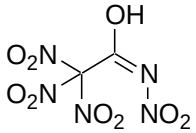
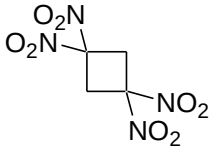
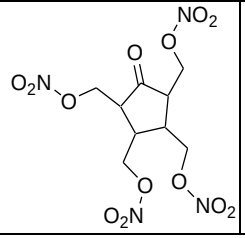
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18	[31]		$C_7H_2N_{10}O_{12}$	-11.5	33.5	1.934			1.941	1.933	379	186.3	231.01	2.7589	9733	437	9201	402	9029	377	9094	9264	405	1.937	9304	391
19	[32] [26]		$C_{12}H_4N_6O_{12}$	-52.8	19.8	1.694			1.797	1.776	61.1	100.3	48.67	2.2869	7609	270	7314	226	7355	231	7298	7394	242	1.786	7500	244
20	[32]		$C_{14}H_6N_6O_{12}$	-67.5	18.7	1.74			1.749	1.704	78.2	200.8	86.64	2.1317	7369	266	6830	181	7276	230	7116	7148	226	1.727	7612	243
21	[32]		$C_{17}H_7N_{11}O_{16}$	-55.4	24.8	1.757			1.813	1.776	43.7	208.3	265.80	2.1310	7420	271	7462	240	7421	241	7379	7420	251	1.794	7757	251
22	[32] [33]		$C_{14}H_4N_8O_{13}$	-55.3	22.8	1.77			1.831	1.779	266.55	232.1	114.41	2.3729	8083	309	7350	230	7543	250	7478	7614	263	1.805	7840	279
23	[32]		$C_{16}H_4N_{10}O_{14}$	-57.1	25.0	1.837			1.857	1.781	197.6	409.9	180.15	2.4589	8543	347	7377	232	7547	256	7486	7738	278	1.819	8030	273

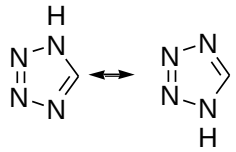
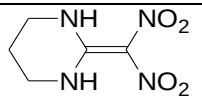
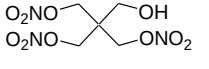
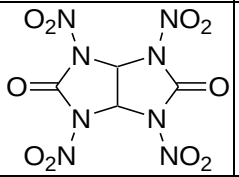
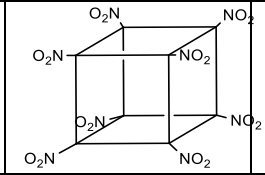
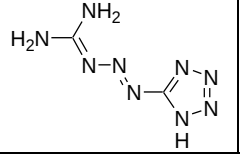
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
24	[34]		$C_{12}H_6N_4O_9$	-82.2	16.0	1.689			1.606	1.667	-168.1	55.1	-39.09	2.1123	7290	260	6277	130	6827	202	6623	6754	197	1.637	6582	168
25	[34]		$C_{12}H_4N_6O_{13}$	-47.3	19.1	1.70			1.710	1.792	-132.9	-69.0	-83.55	2.3269	8201	329	7449	239	7794	273	7617	7765	280	1.746	7634	250
26	[35]		$C_9H_{14}N_6O_4$*	-124.3	31.1	1.21		1.226	1.443	1.280	-242	-65.3	-108.82	2.0063	5507	109	4203	-64	4912	81	5434	4828	28		5420	79
27	[35]		$C_{11}H_{18}N_6O_4$*	-144.8	28.2	1.16		1.171	1,335	1.230	-296	-114.5	-150.10	1.8439	5088	89	3458	-133	4553	68	5124	4556	12	1.316	5292	72
28	[35]		$C_{13}H_{22}N_6O_4$*	-161.8	25.8	1.09		1.123	1.245	1.192	-349	-163.6	-191.38	1.6815	4648	68	2842	-191	4185	54	4852	4130	-34	1.251	5048	62
29	[35]		$C_7H_{10}N_2O_8$*	-70.3	11.2	1.33			1.423	1.478	-872	-- 810.8	-684.66	2.2339	6297	154	5396	47	5796	122	5916	5851	108	1.347	5683	100

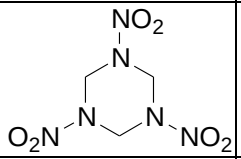
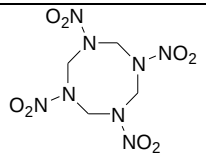
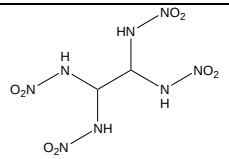
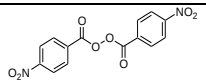
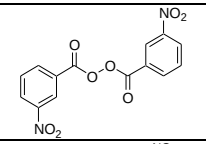
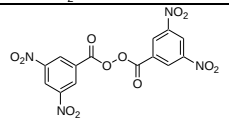
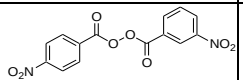
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
30	[35]		$C_9H_{14}N_2O_8$*	-97.8	10.1	1.22			1.309	1.386	-926	-859.9	-725.94	2.0715	5652	116	4641	-23	5224	93	5435	5238	93	1.348	5111	75
31	[36]		$C_7H_{12}N_6O_{15}$	-29.5	20.0	1.69			1.602	1.632	-530.6	-543.4	-843.93	2.6015	8368	309	8008	291	8393	301	8158	8232	300	1.617	8059	-
32	[36]		$C_{11}H_{16}N_8O_{20}$	-27.8	19.3	1.67			1.606	1.632	-1044.4	-1024.8	-1095.99	2.3383	7654	269	7548	248	7911	265	7726	7710	261	1.619	7891	-
33	[36]		$C_6H_9N_5O_{13}$	-15.6	20.3	1.73			1.788	1.775	-614.8	-683.3	-869.55	2.6638	8307	333	8209	310	8495	312	8356	8434	318	1.781	8048	-
34	[36]		$C_{11}H_{17}N_{11}O_{25}$	-12.5	21.9	1.80			1.710	1.726	-637.8	-695.5	-1180.47	2.8060	9319	383	8384	326	8869	349	8622	8798	353	1.718	8550	328
35	[36]		$C_5H_6N_4O_{10}$	-17.0	19.9	1.84			1.775	1.780	-752.4	-318.5	-314.69	2.5237	8727	358	7679	260	8165	300	8008	8145	306	1.777	8266	313

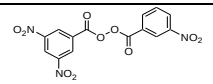
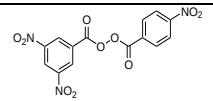
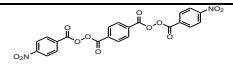
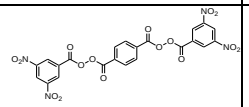
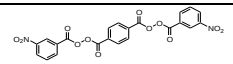
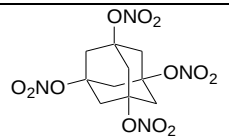
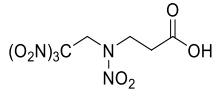
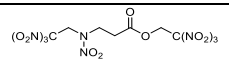
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
36	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.79			1.874	1.849	124.3	29.3	117.27	2.3460	8082	313	8824	301	8257	226	8336	8375	327	1.861	8426	306
37	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8459	308
38	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.78			1.874	1.849	73.2	29.3	117.27	2.346	8048	309	8824	367	8113	290	8215	8300	322	1.861	8279	289
39	[26]		$C_8H_7N_3O_7$	-77.8	16.3	1.554			1.590	1.590	-154.5	-222.2	-170.83	2.1544	6845	210	6303	132	6741	184	6598	6622	175	1.590	6545	191
40	[38]		$C_7H_5N_3O_7$	-62.5	17.3	1.7			1.665	1.665	-187.2	-197.6	-150.19	2.2356	7502	266	6800	178	7263	226	7059	7156	223	1.665	7035	204

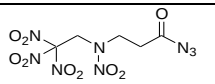
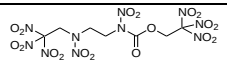
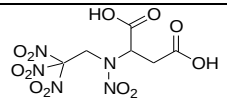
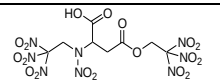
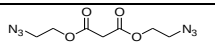
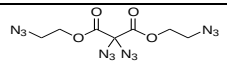
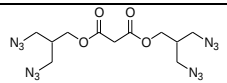
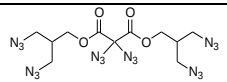
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
41	[38]		$C_8H_6N_4O_{10}$	-45.3	17.6	1.723			1.684	1.707	-277.4	-277.3	-313.81	2.3017	7742	282	7290	224	7684	255	7476	7548	254	1.696	7470	237
44	[38]		$C_6H_{12}N_2O_8$	-66.6	11.7	1.344			1.273	1.452	-656.9	-605.8	-717.57	2.3007	6473	164	5848	90	6468	153	6354	6286	136	1.362	6498	143
45	[38]		$C_6H_6N_6O_{14}$	-4.1	21.8	1.78			1.748	1.780	-421.7	-516.8	-482.52	2.6571	8852	353	8537	340	8658	330	8534	8645	341	1.764	8616	335
46	[24]		$C_4H_{10}N_4$	-182.2	49.1	0.933		1.140		1.109	277	279.1	239.44	2.1833	4940	63	-	-	4252	49	5168	4787	56	1.124	5730	73
47	[24] [40]		$C_3N_{12}^*$	-47.0	82.3	1.73				1.563	914.6/1053	1412.8	1100.11	2.4829	8221	309	-	-	7403	237	8458	8027	273	-	7866	226

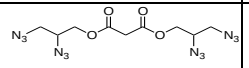
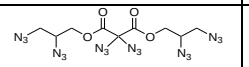
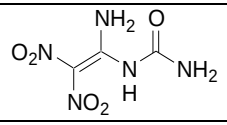
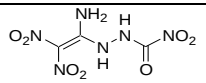
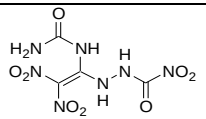
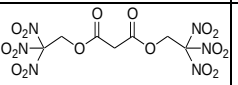
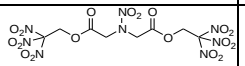
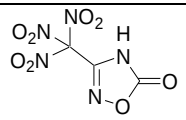
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
49	[42]		$C_{15}H_{30}O_6$*	-198.3	0.0	1.25				1.124	-583.8	-744.8	-1104.05	1.4425	4600	79	714	-389	4462	69	4599	3594	-120	-	6322	114
51	[44]		$C_5H_8N_4O_{12}$	-10.1	17.7	1.76			1.768	1.706	-538.48	-497.1	-727.20	2.5965	8620	336	8077	298	8652	328	8375	8431	321	1.737	8525	316
54	[38]		$C_2HN_5O_9$*	30.1	29.3	1.87			2.017	1.937	-134.7	-78.2	-216.20	2.7474	9325	392	8176	307	9370	395	9506	9094	365	1.977	7503	230
55	[38]		$C_4H_4N_4O_8$	-13.6	23.7	1.83			1.837	1.819	-84	124.6	-92.15	2.5249	8730	359	8575	344	8873	354	8696	8718	352	1.828	8646	339
56	[38]		$C_9H_{12}N_4O_{13}$	-45.8	-8.3	1.55			1.486	1.622	-676.2	-698.4	-892.82	2.3261	7219	227	6786	177	7308	216	7108	7105	207	1.554	7518	203

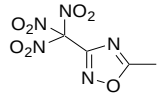
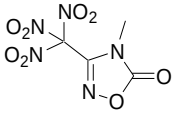
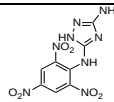
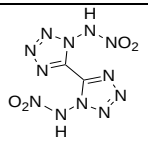
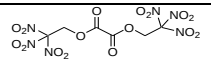
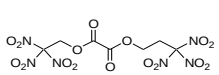
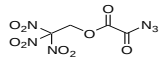
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
58	[38]		CH_2N_4*	-68.5	80.0	1.529				1.582	237.07	303.2	268.59	2.3340	7165	221	-	-	6781	184	7710	7219	202	-	7831	210
59	[47]		$C_5H_8N_4O_4$	-85.0	29.8	1.65			1.618	1.567	61.8	-80.6	159.51	2.0763	6958	230	6292	131	7331	226	7163	6936	196	1.593	7906	232
60	[38]		$C_5H_9N_3O_{10}$	-26.6	15.5	1.54			1.622	1.642	-560.7	-629.2	-736.45	2.4892	7550	241	7540	248	7683	237	7484	7564	242	1.632	7777	253
61	[38]		$C_6H_2N_8O_{16}$*	5.0	34.8	2.04			2.035	2.065	41.8	-76.1	-30.47	2.7069	10004	479	8856	370	9548	434	9617	9506	428	2.050	9946	402
62	[38]		$C_8N_8O_{16}$	0.0	24.1	1.979			2.013	2.202	413.8 594	407.3	585.82	2.6581	9623	441	8928	377	9469	420	9443	9366	413	2.107	9562	422
63	[38]		$C_2H_5N_9$*	-67.0	81.3	1.64				1.538	382	633.1	423.71	2.1675	7964	326	-	-	7514	259	8526	8001	292	1.768	9729	338

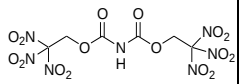
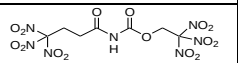
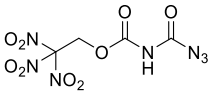
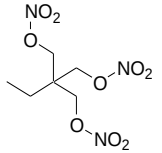
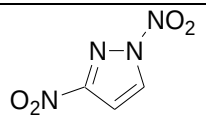
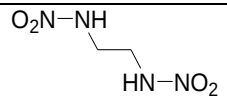
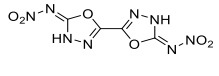
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
64	[26]		$C_3H_6N_6O_6$	-21.6	37.8	1.806			1.843	1.797	86.3	40.2	77.92	2.5591	8237	341	8940	378	8771	340	8765	8773	353	1.820	8882	340
65	[38]		$C_4H_8N_8O_8$	-21.6	37.8	1.903			1.843	1.782	92.8	65.1	81.13	2.6053	9184	398	9042	388	9149	384	9077	9113	390	1.812	9286	381
66	[38]		$C_2H_6N_8O_8$	5.9	41.5	1.87			1.819	1.889	48.5	-- 179.6	75.67	2.3601	8393	345	9659	445	9636	421	9720	9352	404	1.854	8760	392
67	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.61			1.566	1.547	-415	-353.4	-370.27	1.8697	6354	194	4197	-64	5752	137	5577	5470	134	1.556	6129	130
68	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.608			1.566	1.547	-406	-- 353.4	-370.27	1.8697	6354	194	4197	-64	5757	137	5582	5471	134	1.556	6130	130
69	[48]		$C_{14}H_8N_4O_{12}$	-72.0	13.3	1.718			1.701	1.686	-410	-358.0	-414.73	2.0843	7183	252	5893	94	6853	202	6662	6648	183	1.694	7087	200
70	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.67			1.566	1.547	-404	-353.4	-370.27	1.8697	6517	211	4197	-64	5909	148	5657	5570	148	1.556	6395	90

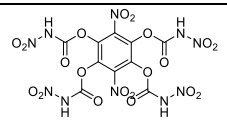
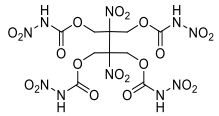
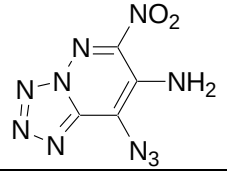
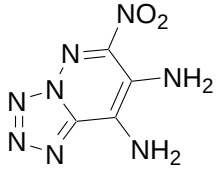
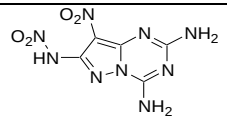
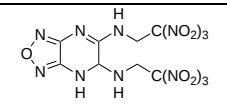
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
71	[48]		$C_{14}H_7N_3O_{10}$	-91.2	11.1	1.70			1.642	1.622	-405	-361.8	-392.50	1.9770	6863	233	5158	25	6451	178	6219	6173	145	1.632	6796	180
72	[48]		$C_{14}H_7N_3O_{10}$	-91.2	11.1	1.69			1.642	1.622	-405	-361.8	-392.50	1.9770	6835	230	5158	25	6425	176	6204	6156	144	1.632	6757	170
73	[48]		$C_{22}H_{12}N_2O_{12}$	-122.5	5.6	1.46			1.545	1.532	-761	-604.1	-776.91	1.5699	5310	128	3642	-116	5179	104	5189	4830	58	1.538	5315	90
74	[48]		$C_{22}H_{10}N_4O_{16}$	-90.1	9.6	1.51			1.646	1.631	-752	-620.9	-821.37	1.7845	5895	160	4929	4	5897	138	5882	5651	101	1.639	6007	130
75	[48]		$C_{22}H_{12}N_2O_{12}$	-122.5	5.6	1.45			1.545	1.532	-752	-604.1	-776.91	1.5699	5288	126	3642	-116	5980	138	5910	5205	74	1.538	5284	90
77	[49]		$C_{10}H_{12}N_4O_{12}$	-58.9	14.7	1.659			1.534	1.705	-581	-446.9	-568.79	2.2121	7348	253	6556	156	7435	234	7121	7115	214	1.619	7282	229
78	[50]		$C_5H_7N_5O_{10}$	-18.8	23.6	1.72			1.778	1.711	-463.1	-389.9	-472.89	2.5438	8337	313	8093	299	8150	287	8041	8155	300	1.744	7987	277
79	[50]		$C_7H_8N_8O_{16}$	-7.0	24.4	1.73			1.747	1.773	-398.4	-369.2	-446.39	2.7033	8775	338	8653	351	8503	313	8429	8590	334	1.760	8300	292

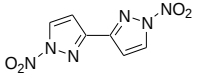
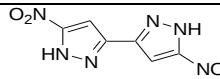
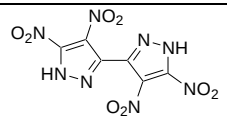
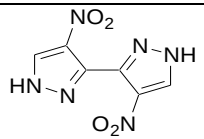
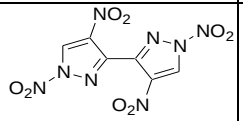
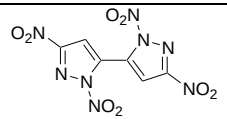
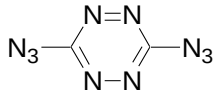
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
80	[50]		$C_5H_6N_8O_9$	-19.9	34.8	1.70		1.685		1.651	98.3	259.4	138.42	2.5785	8349	310	8707	356	8288	294	8363	8427	320	1.687	8285	291
81	[50]		$C_7H_8N_{10}O_{18}$	0.0	26.9	1.89			1.786	1.816	-292.8	-224.6	-389.62	2.8307	9754	428	9008	384	9212	387	9102	9269	400	1.762	9083	365
82	[50]		$C_6H_7N_5O_{12}$	-16.4	20.5	1.66			1.787	1.738	-824.5	-782.0	-840.91	2.5498	8130	291	7739	266	7671	248	7652	7798	268	1.762	7515	234
83	[50]		$C_8H_8N_8O_{18}$	-6.3	22.2	1.65			1.847	1.787	-777.5	-666.2	-814.41	2.7093	8475	306	8354	323	8014	270	8010	8213	300	1.817	7801	247
84	[51]		$C_7H_{10}N_6O_4$*	99.1	34.7	1.38		1.292		1.348	-176	174.0	-58.79	2.1687	6329	162	5120	22	5648	119	6039	5784	101	1.320	6192	118
85	[51]		$C_7H_8N_{12}O_4$	-69.1	51.8	1.49		1.410		1.437	542	936.5	528.06	2.3181	6999	208	7209	217	6660	174	7135	7001	200	1.423	6974	170
86	[51]		$C_9H_{12}N_{12}O_4$*	-109.4	44.2	1.38		1.323		1.318	466	838.2	443.69	1.9933	5977	148	5598	66	5880	129	6278	5933	114	1.321	6576	160
87	[51]		$C_9H_{10}N_{18}O_4$*	-86.5	54.5	1.51		1.413		1.382	1187	1600.6	1030.54	2.1427	6681	196	6978	195	6695	178	7122	6869	190	1.397	7147	181

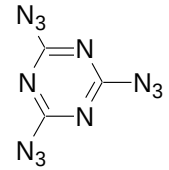
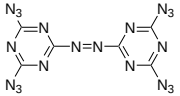
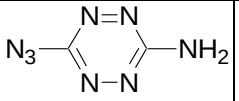
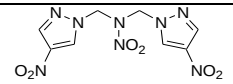
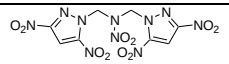
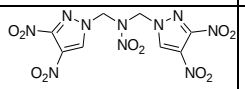
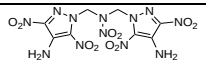
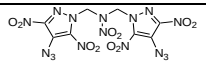
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88	[51]		$C_9H_{12}N_{12}O_4$*	-90.8	47.7	1.30		1.361		1.370	440	887.3	484.97	2.1557	6052	141	6340	135	5809	120	6350	6138	132	1.365	6252	119
89	[51]		$C_9H_{18}N_{18}O_4$*	-70.0	58.1	1.50		1.446		1.433	1160	1649.8	1071.82	2.3051	7004	209	7669	260	6816	183	7346	7209	217	1.440	7087	178
90	[52]		$C_3H_5N_5O_5$	-29.3	36.6	1.86			1.744	1.770	-277	-162.3	-20.66	2.1987	7922	317	8184	308	8067	294	8183	8089	306	1.757	8516	305
91	[52]		$C_3H_4N_6O_7$	-6.8	35.6	1.79			1.831	1.862	-153	-186.6	-11.74	2.3060	7978	307	9009	385	8512	320	8634	8533	337	1.847	8576	293
92	[52]		$C_4H_7N_7O_8$	-14.3	35.1	1.70			1.818	1.841	-355	-331.9	-7.50	2.1920	7394	260	8573	344	7818	262	8043	7957	289	1.829	7085	231
94	[53]		$C_7H_8N_8O_{16}$	-3.7	19.5	1.76			1.748	1.789	-759	-813.8	-736.45	2.6631	8790	345	8197	309	8361	306	8262	8402	320	1.768	8263	246
95	[53]		$C_6H_8N_8O_{18}$	-6.3	22.2	1.78			1.748	1.781	-691	-476.0	-700.32	2.7093	8987	360	8354	323	8506	319	8401	8562	334	1.764	8415	240
96	[54]		$C_3H_1N_5O_8$*	10.2	29.8	1.95			1.920	1.972	142	-257.9	-171.82	2.5333	9158	407	8870	372	9619	430	9658	9326	403	1.946	8798	331

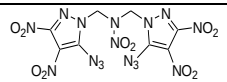
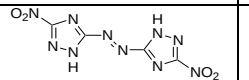
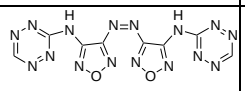
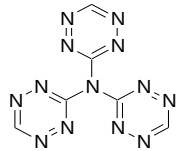
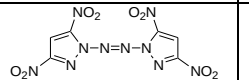
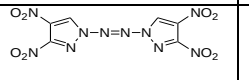
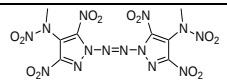
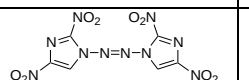
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
97	[54]		$C_4H_3N_5O_7$	-17.2	30.0	1.84			1.834	1.784	43	78.1	-59.90	2.5122	8696	357	8980	382	8686	339	8655	8754	359	1.809	8779	346
98	[54]		$C_4H_3N_5O_8$	-9.6	28.1	1.80			1.829	1.833	133	-23.5	-183.34	2.5522	8655	346	8404	328	8868	349	8835	8690	341	1.831	8804	346
105	[55]		$C_6H_6N_8O_6$	-67.1	36.1	1.85			1.989	1.746	147.4	299.0	325.48	2.0828	7579	296	7635	256	7540	256	7554	7577	269	1.868	8178	278
109	[56]		$C_2H_2N_{12}O_4$	-6.2	65.1	1.930			2.134	1.921	932.1	810.1	661.23	2.6561	9428	418	10855	557	9715	436	10282	10070	470	2.027	10142	456
113	[57]		$C_6H_4N_6O_{16}$*	7.7	20.2	1.84			1.797	1.851	-668.0	-694.1	-715.81	2.7443	9317	392	8017	292	8813	349	8724	8718	344	1.824	8275	286
114	[57]		$C_7H_6N_6O_{16}$	-3.7	19.5	1.73			1.748	1.789	-705.2	-940.6	-736.45	2.6631	8674	333	8197	309	8305	299	8220	8349	314	1.769	8071	270
115	[57]		$C_4H_2N_6O_9$	0.0	30.2	1.75		1.858		1.782	-170.5	-287.4	-131.00	2.6195	8641	335	8574	344	8353	304	8496	8516	328	1.820	8223	280

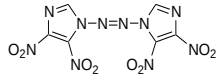
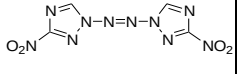
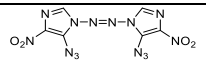
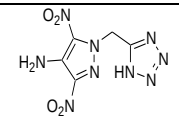
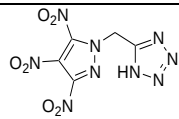
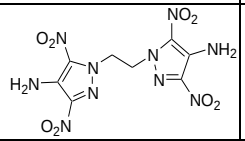
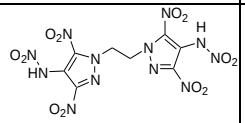
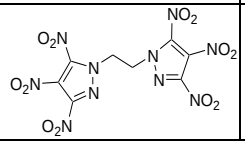
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
116	[57]		$C_6H_5N_7O_{16}$*	5.6	22.7	1.92			1.795	1.851	-775.2	-509.4	-662.34	2.6643	9413	415	8251	314	8967	370	8867	8874	366	1.823	8675	237
117	[57]		$C_7H_7N_7O_{15}$	-9.3	22.8	1.63			1.748	1.776	-645.2	-693.8	-478.28	2.5431	8003	279	8303	319	7889	260	7905	7932	270	1.762	7703	241
118	[57]		$C_4H_3N_7O_9$	-2.7	33.5	1.50		1.878		1.785	-271	-118.5	-77.53	2.5395	7515	233	8697	355	7385	215	7727	7831	268	1.831	7213	189
119	[26]		$C_6H_{11}N_3O_9$	-50.5	15.6	1.500			1.445	1.527	-480	-451.2	-604.86	2.3680	7141	216	6815	180	7298	210	7074	7082	202	1.529	7097	196
120	[37]		C3H2N4O4	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8426	306
121	[26]		$C_2H_6N_4O_4$	-32.0	37.3	1.75			1.608	1.646	-103.8	-60.9	0.81	2.3055	7842	292	8309	319	8421	309	8380	8238	307	1.627	8336	299
123	[58]		$C_4H_2N_8O_6$	-18.6	43.4	1.98			1.981	1.849	278.6	190.5	66.11	2.3467	8731	387	8566	343	8941	375	9130	8842	368	1.915	9388	391

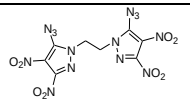
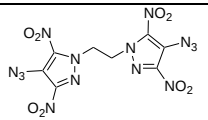
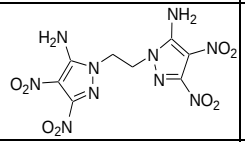
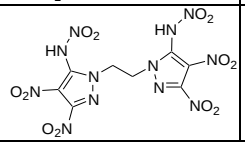
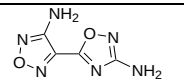
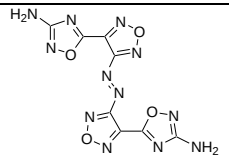
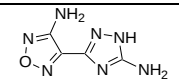
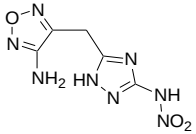
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
129	[60]		$C_{10}H_{14}N_6O_{12}$	-5.5	24.0	1.71			1.852	1.924	-1275	-1125.2	-854.39	2.3027	7701	278	8023	293	7629	250	7806	7790	274	1.888	7702	-
130	[60]		$C_{10}H_{16}N_6O_{12}$	-16.2	23.7	1.89			1.713	1.764	-1441.5	-1355.9	-1051.07	2.2739	8225	340	7846	276	8293	314	8190	8138	310	1.739	8298	-
131	[61]		$C_4H_2N_{10}O_2$	-50.4	63.1	1.82		1.390	2.107	1.749	811.2	998.6	726.07	2.4808	8540	344	9212	403	8079	291	8608	8610	346	1.570	8746	315
132	[61]		$C_4H_4N_8O_2$	-65.3	57.1	1.80			1.948	1.766	446.5	472.9	462.06	2.3261	8064	314	8179	307	7630	258	8025	7974	293	1.857	8434	277
136	[62]		$C_5H_5N_9O_4$	-53.3	49.4	1.89				1.825	314	331.0	439.87	2.2521	8165	336	8582	345	8004	292	8242	8248	324	-	8713	319
138	[63]		$C_8H_8N_{12}O_{13}$	-23.3	35.0	1.80			1.830	1.806	110	138.0	162.52	2.3038	8005	310	8907	375	8430	315	8483	8456	333	1.818	8409	321

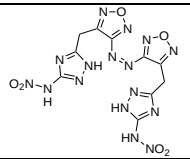
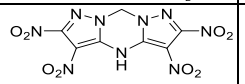
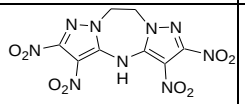
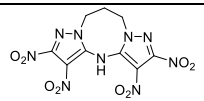
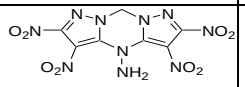
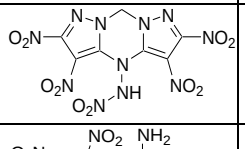
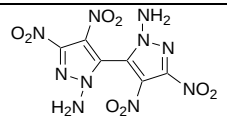
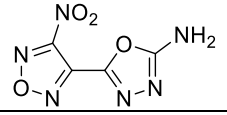
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139	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.751	413.9	321.2	340.57	2.4109	8320	330	7503	244	7718	265	7728	7817	280	1.794	8301	288
140	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.759	229.1	149.5	299.39	2.2107	7794	301	7503	244	7425	245	7481	7551	263	1.797	8026	262
141	[64]		$C_6H_2N_8O_8H_2O$	-25.5	35.7	1.84			1.940	1.927	42.7	132.6	254.93	2.4253	8464	344	8908	375	8079	293	8251	8426	337	1.933	8556	323
142	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.83			1.836	1.759	221	149.5	299.39	2.2107	7858	308	7503	244	7469	250	7512	7586	267	1.797	8120	269
143	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.85			1.940	1.920	407.1	304.4	296.11	2.6255	9037	378	8908	375	8523	327	8631	8775	360	1.980	8869	345
144	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.855			1.940	1.920	444.1	304.4	296.11	2.6255	9057	380	8908	375	8578	332	8680	8806	362	1.980	8926	354
145	[40]		C_2N_{10}	-39.0	85.4	1.62		1.280		1.566	1130	1206.1	867.21	2.5095	7887	271	-	-	8023	267	8987	8299	269	1.423	8306	265

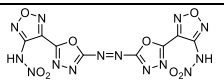
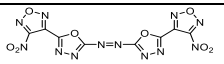
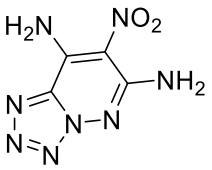
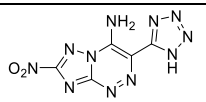
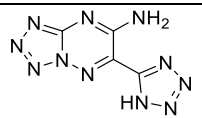
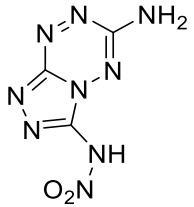
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
146	[40]		C_3N_{12}*	-47.0	82.3	1.74				1.563	1053	1412.8	1100.11	2.4829	8257	313	-	-	7699	258	8680	8212	286	-	8308	269
147	[40]		C_6N_{20}*	-54.5	79.5	1.67				1.481	2171	2022.5	1747.35	2.5971	8282	301	-	-	7691	250.5	8582	8185	275.8	-	8306	264
148	[40]		C_2H_2 N_8*	-57.9	81.1	1.68				1.554	686.2	882.8	603.20	2.3548	7728	274	-	-	7664	250	8502	7965	262	-	8449	270
150	[65]		C_6H_6 N_8O_6	-71.8	35.9	1.69			1.745	1.663	377.2	367.6	362.89	2.3759	7814	280	7486	242	7429	236	7445	7544	253	1.704	7867	251
151	[65]		C_6H_6 $N_{10}O$ $_{10}$	-35.8	34.8	1.789	1.78		1.847	1.801	388	350.8	311.60	2.5905	8680	343	8583	345	8234	299	8273	8442	329	1.824	8258	309
152	[65]		C_6H_6 $N_{10}O$ $_{10}$	-35.8	34.8	1.78			1.847	1.801	398	350.8	311.60	2.5905	8680	343	8583	345	8242	299	8280	8446	329	1.824	8265	310
153	[65]		C_6H_8 $N_{12}O$ $_{10}$	-37.0	38.9	1.86			1.839	1.820	486.4	371.6	356.24	2.4305	8549	352	8753	361	8555	331	8575	8608	348	1.829	8639	347
154	[65]		C_6H_4 $N_{16}O$ $_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1108.2	1220.5	884.26	2.7399	9265	386	9339	415	8619	333	8880	9026	378	1.716	8717	351

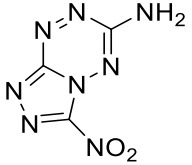
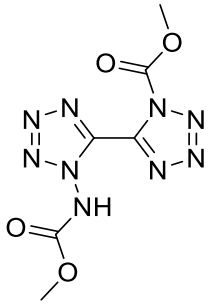
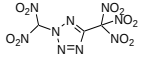
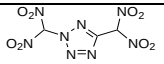
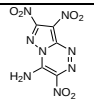
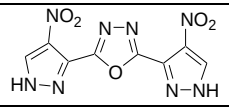
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
155	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1118.7	1220.5	884.26	2.7399	9265	386	9339	415	8626	333	8886	9029	378	1.716	8724	352
156	[66]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.88			2.062	1.795	571.7	580.1	453.47	2.4607	8702	365	9602	440	8421	323	8845	8892	376	1.928	8952	347
162	[67]		$C_8H_4N_{16}O_2$	-71.9	62.9	1.67				1.609	1654.3	1283.9	895.13	2.5129	8078	290	8373	325	7457	236	7996	7976	284	-	8075	251
165	[67]		$C_6H_3N_{13}$*	-84.0	70.8	1.73				1.517	1386.2	1405.1	1003.43	2.5670	8433	320	-	-	7415	238	8053	7967	279	-	8322	264
166	[68]**4**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.81			1.983	1.852	687.6	677.3	343.33	2.6729	9010	368	9202	403	8559	326	8773	8886	366	1.917	8298	348
167	[68]**5**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.82			1.983	1.852	687.6	677.3	343.33	2.6729	9048	372	9202	403	8592	330	8801	8911	368	1.917	8964	351
168	[68]**6**		$C_8H_6N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	789.2	849.9	392.65	2.7653	9212	377	9200	402	8654	332	8790	8964	370	1.864	8834	346
169	[68]**7**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.85			1.983	1.852	591.8	493.3	343.33	2.6729	9165	385	9202	403	8600	333	8799	8942	374	1.917	8979	356

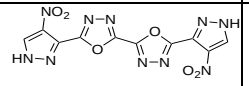
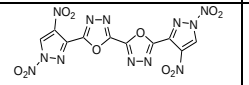
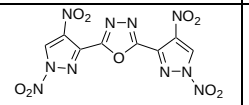
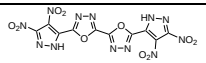
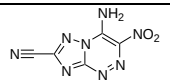
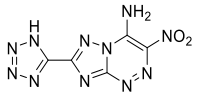
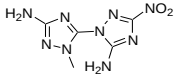
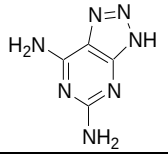
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
170	[68]8		$C_6H_2N_{10}O_8$	-23.4	40.9	1.83			1.983	1.852	612.4	493.3	343.33	2.6729	9087	376	9202	403	8554	328	8762	8901	369	1.917	8932	351
171	[68]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.80			2.062	1.770	719.1	859.2	494.65	2.6609	8939	362	9602	440	8373	311	8799	8928	371	1.916	8825	335
172	[68]		$C_4H_2N_{14}O_4$	-43.1	58.7	1.77		1.470		1.712	1169.1	1379.9	960.45	2.6077	8687	342	9365	418	8056	285	8557	8666	348	1.591	8702	314
173	[69]		$C_5H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	347.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
174	[69]		$C_5H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	376.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345
183	[70]		$C_6H_8N_{10}O_8$	-51.6	37.6	1.77			1.799	1.768	218.9	291.4	299.47	2.3031	7903	299	8238	313	7815	268	7871	7957	293	1.784	8189	279
184	[70]		$C_6H_6N_{12}O_{12}$	-24.2	36.4	1.84			1.877	1.862	380.6	305.2	317.31	2.5177	8711	357	9000	384	8588	331	8650	8737	357	1.869	8753	343
186	[70]		$C_6H_4N_{10}O_{12}$	-22.2	32.4	1.84			1.887	1.863	306.9	253.7	210.37	2.6777	9139	382	8852	370	8551	329	8588	8782	360	1.875	8759	341

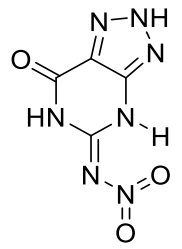
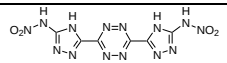
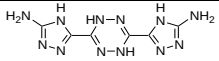
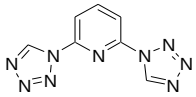
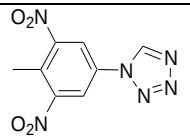
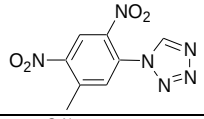
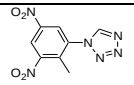
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
187	[70]		$C_8H_4N_{14}O_8$	-37.7	46.2	1.78		1.543	1.983	1.750	1233.9	1140.3	827.49	2.6125	8737	347	8991	383	8398	311	8651	8694	347	1.647	8797	334
188	[70]		$C_8H_4N_{14}O_8$	-37.7	46.2	1.76		1.543	1.983	1.750	1013.9	1140.3	827.49	2.6125	8661	338	8991	383	8170	292	8444	8566	338	1.647	8558	310
189	[70]		$C_8H_8N_{10}O_8$	-51.6	37.6	1.75			1.799	1.768	237.9	291.4	299.47	2.3031	7836	292	8238	313	7772	263	7839	7921	289	1.784	8127	273
190	[70]		$C_8H_6N_{12}O_{12}$	-24.2	36.4	1.83			1.877	1.862	368.1	305.2	317.31	2.5177	8675	353	9000	384	8546	327	8615	8709	355	1.869	8710	337
191	[71]		$C_4H_4N_8O_2$	-76.1	50.0	1.680				1.716	186.6	246.9	155.73	2.2787	7542	265	7458	240	6820	198	7227	7262	234	-	7459	204
193	[71]		$C_8H_4N_{12}O_2$	-67.4	50.6	1.652				1.716	705.5	868.1	334.43	2.4981	7976	282	8192	308	6964	204	7405	7634	265	-	7547	216
194	[71]		$C_4H_5N_7O^*$	-91.0	58.7	1.716				1.685	290.8	279.8	325.54	2.1587	7362	261	5873	92	6698	193	7229	6790	182	-	7798	215
199	[73]		$C_2H_6N_8O_3$	-70.8	49.5	1.695			1.832	1.692	449.0	364.6	313.82	2.1848	7361	258	7834	275	7456	238	7699	7588	257	1.762	8079	249

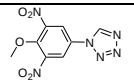
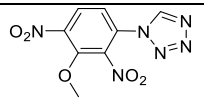
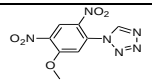
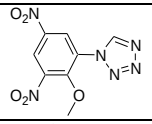
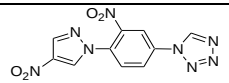
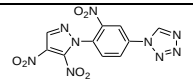
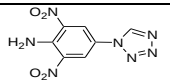
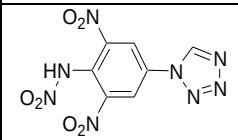
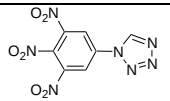
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
200	[73]		$C_{10}H_8N_{16}O_6$	-64.2	50.0	1.704			1.924	1.692	1206.2	1072.8	650.61	2.3103	7700	277	8314	320	7607	248	7890	7878	282	1.808	8125	260
210	[75]		$C_7H_5N_9O_8$	-35.2	37.0	1.895			2.014	1.932	375.3	207.9	445.16	2.4715	8785	373	8664	352	8400	323	8475	8562	349	1.973	8792	343
211	[75]		$C_6H_5N_9O_8$	-47.3	35.5	1.80			1.949	1.847	301.9	275.3	418.36	2.3903	8232	323	8240	313	7908	277	7964	8086	304	1.898	8257	292
212	[75]		$C_6H_7N_9O_8$	-58.5	34.1	1.760			1.890	1.775	299.1	250.7	391.56	2.3091	7885	297	7847	276	7671	258	7680	7771	277	1.833	8051	272
216	[75]		$C_7H_4N_{10}O_8$	-35.9	39.3	1.790			2.005	1.929	342.0	376.8	432.55	2.4916	8460	333	8758	361	8035	285	8201	8364	326	1.967	8356	296
217	[75]		$C_7H_3N_{11}O_{10}$	-21.9	38.4	1.937			2.037	1.972	521.6	399.0	441.47	2.5989	9295	412	9127	396	8890	366	8989	9075	391	2.005	9226	388
219	[76]		$C_6H_4N_{10}O_8$	-27.9	40.7	1.760 *1.811 @ 173 K*			1.922	1.921	457.8	432.5	340.75	2.4655	8285	318	9080	391	8263	299	8449	8519	336	1.922	8504	310
220	[77]		$C_4H_2N_8O_4$	-40.4	42.4	1.747			1.950	1.823	219.4	236.0	111.18	2.4660	8240	313	8781	363	7724	260	7991	8184	312	1.976	8102	269

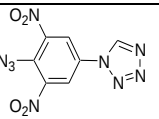
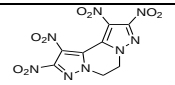
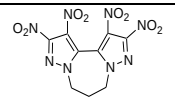
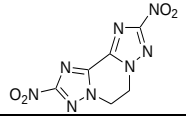
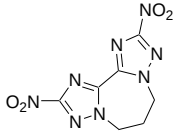
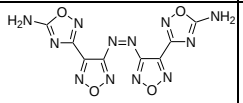
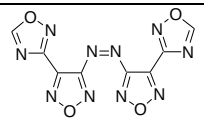
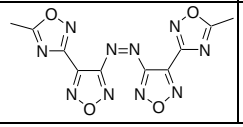
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221	[77]		$C_8H_2N_{14}O_8$	-34.1	-34.1	1.767			2.033	1.826	786.1	1026.3	352.27	2.7127	8945	355	8660	352	7940	277	8295	8460	328	1.929	8409	293
222	[77]		$C_8N_{12}O_8$	-32.6	42.9	1.825			2.056	1.824	854.2	790.8	245.33	2.8727	9598	404	8954	379	8170	299	8475	8683	346	1.940	8800	351
223	[78]		$C_4H_4N_8O_2$	-65.3	57.1	1.869			1.948	1.766	398	564.9	462.06	2.3261	8297	340	8179	307	7731	271	8115	8080	306	1.857	8899	303
231	[80]		$C_3H_3N_{11}O_2$	-61.0	61.8	1.873			2.067	1.776	721.6	887.2	728.72	2.4734	8711	364	8709	357	7792	276	8300	8378	332	1.921	9010	328
232	[80]		$C_4H_3N_{11}$*	-74.1	75.1	1.795				1.714	866.5	1070.2	804.38	2.4674	8415	332	-	-	7446	246	8195	8019	289	-	8367	256
239	[81]		$C_3H_3N_9O_2$	-44.6	64.0	1.79			2.050	1.804	634.3	625.7	546.64	2.4274	8293	324	9288	411	8175	295	8694	8612	343	1.927	8763	313

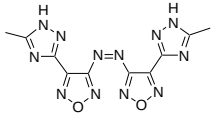
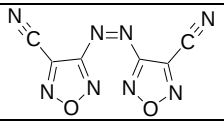
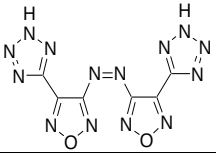
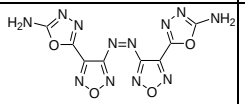
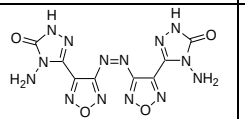
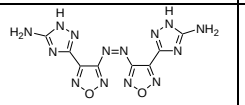
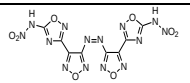
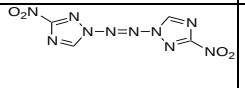
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
240	[81]		$C_3H_2N_8O_2$	-43.9	61.5	1.83			1.769	1.800	656.8	592.6	493.17	2.5074	8647	352	9344	416	8374	314	8846	8803	361	1.784	8953	339
241	[82]		$C_8H_7N_9O_4$	-68.4	46.8	1.64				1.590	325.5	301.3	80.14	2.3711	7630	262	7063	203	7122	212	7409	7306	226	-	7403	201
254	[85]		$C_3HN_9O_{10}^*$	17.3	39.0	1.88			1.997	1.950	284.3	334.6	157.13	2.8082	9651	420	9252	407	9432	405	9684	9505	411	1.974	8511	312
258	[85]		$C_3H_2N_8O_8$	5.8	40.3	1.92	1.964			1.881	247.5	312.4	171.36	2.7009	9515	421	9750	454	9393	406	9587	9561	427	1.922	9123	377
261	[86]		$C_3H_2N_8O_6$	-29.6	41.5	1.90			1.971	1.897	344	410.7	341.85	2.5194	8935	383	9062	389	8479	329	8657	8783	367	1.934	8737	326
262	[87]		$C_6H_4N_8O_5$	-71.2	38.4	1.800			1.884	1.768	521.57	327.3	365.13	2.2967	7987	309	7264	222	7508	250	7594	7588	260	1.826	8099	271.4

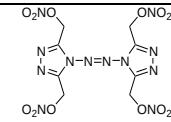
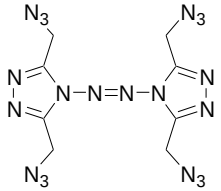
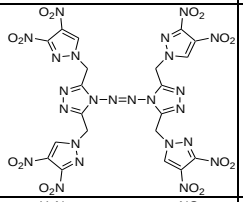
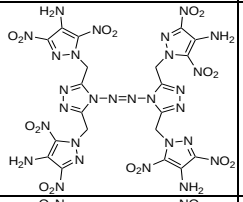
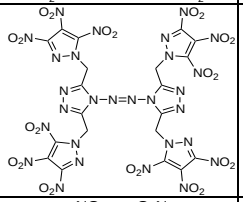
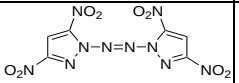
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
263	[87]		$C_{10}H_4N_{10}O_6$	-71.1	38.9	1.809			1.914	1.773	639.79	505.1	430.87	2.3827	8243	325	7098	206	7431	246	7553	7581	259	1.843	8054	265.3
264	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.831			1.972	1.903	762.11	660.0	427.59	2.7975	9423	395	8102	300	7499	252	7771	8199	316	1.976	8855	342.3
265	[87]		$C_8H_2N_{10}O_9$	-33.5	36.7	1.844			1.959	1.897	882.44	482.2	361.85	2.7115	9245	388	8434	331	8552	329	8676	8727	349	1.920	8766	333.3
266	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.870			1.972	1.885	602,65	488.2	386.41	2.5973	9037	382	8102	300	7614	263	7859	8153	315	1.929	8710	327.5
267	[88]		$C_5H_2N_8O_2$	-69.9	54.4	1.753			2.056	1.729	533.3	532.2	688.02	2.3594	7990	301	8200	309	7186	225	7644	7607	263	1.893	7763	230.5
268	[88]		$C_5H_5N_{11}O_2$	-61.0	61.8	1.819			2.067	1.776	723.4	926.9	728.72	2.4734	8517	342	8709	357	7635	260	8169	8258	320	1.921	8312	270.4
269	[89]		$C_5H_7N_9O_2$*	-81.7	56.0	1.83			1.831	1.657	369	530.6	482.19	2.2650	8003	316	7265	222	7374	244	7715	7589	261	1.744	7520	254
270	[90]		$C_4H_5N_7$*	-111.2	64.9	1.67			1.873	1.638	361	433.8	463.70	2.1187	7121	241	-	-	6163	161	6875	6720	201	1.756	7426	181.6

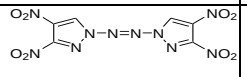
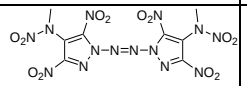
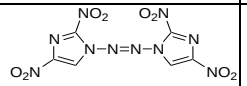
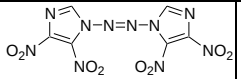
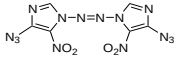
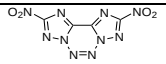
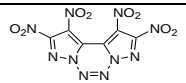
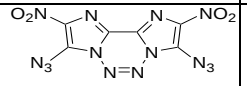
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
271	[90]		$C_4H_5N_7O_3$	-52.8	49.7	1.94			1.949	1.856	223	194.9	252.54	2.2459	8311	354	8228	312	7952	293	8235	8182	320	1.903	8845	325.4
272	[91]		$C_6H_4N_{14}O_4$	-47.6	58.3	1.88			2.044	1.781	1336.0	1220.8	828.13	2.3467	8390	347	9171	400	8660	341	9027	8812	363	1.913	9100	317
273	[91]		$C_6H_8N_{12}$	-103.1	67.7	1.84				1.659	1124.3	842.7	873.59	1.7781	6734	246	-	-	7645	263	8043	7474	254	-	8943	364
283	[92]		$C_7H_5N_9^+$	-122.7	58.6	1.59				1.518	882.5	941.3	753.40	2.3910	7504	247	-	-	6188	157	6707	6800	202	1.724	7120	172
284	[92]		$C_8H_6N_8O_4$	-95.9	33.6	1.66				1.577	403.9	421.8	313.83	2.2557	7421	255	6492	150	6833	197	6865	6903	201	1.661	7432	204
285	[92]		$C_8H_6N_8O_4$	-95.9	33.6	1.63			1.745	1.577	408.7	421.8	313.83	2.2557	7322	245	6492	150	6754	190	6813	6845	195	1.661	7305	195
286	[92]		$C_8H_6N_8O_4$	-95.9	33.6	1.62			1.745	1.577	392.9	421.8	313.83	2.2557	7290	242	6492	150	6706	187	6777	6816	193	1.661	7243	191

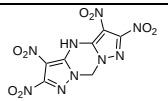
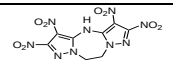
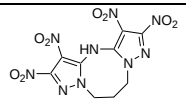
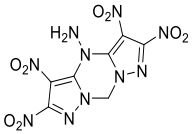
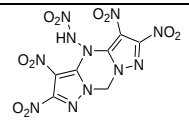
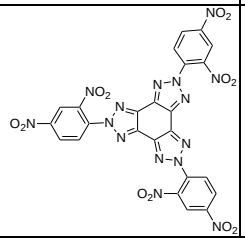
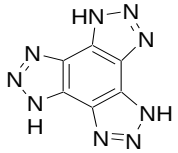
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
287	[92]		$C_8H_6N_8O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	243.4	313.83	2.2957	7651	274	6688	168	7097	216	7075	7128	219	1.677	7247	199
288	[92]		$C_8H_6N_8O_5$	-84.2	31.6	1.62			1.746	1.608	287.4	243.4	181.61	2.2957	7384	247	6688	168	6849	195	6900	6955	203	1.677	7268	197
289	[92]		$C_8H_6N_8O_5$	-84.2	31.6	1.65			1.746	1.608	322.4	243.4	181.61	2.2957	7484	257	6688	168	6977	205	6995	7036	210	1.677	7432	210
290	[92]		$C_8H_6N_8O_5$	-84.2	31.6	1.66			1.746	1.608	293.7	243.4	181.61	2.2957	7517	260	6688	168	7006	207	7015	7056	212	1.677	7442	211
291	[92]		$C_{10}H_6N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	584.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
292	[92]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
293	[92]		$C_7H_5N_7O_4$	-79.6	39.0	1.69			1.825	1.675	369.0	427.6	368.26	2.2569	7522	265	7279	223	7051	212	7192	7261	233	1.750	7899	241
294	[92]		$C_7H_4N_8O_8$	-54.0	37.8	1.76			1.882	1.755	495.4	449.9	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.818	8202	280
295	[92]		$C_7H_3N_7O_6$	-54.1	34.9	1.83			1.890	1.750	470.5	361.3	323.71	2.4442	8479	342	7988	289	7989	286	8022	8120	306	1.820	8298	284

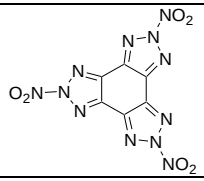
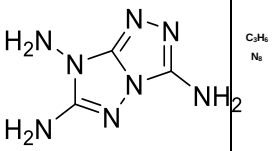
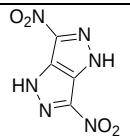
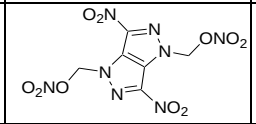
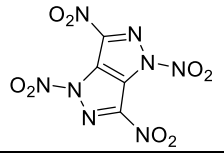
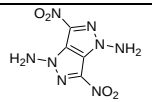
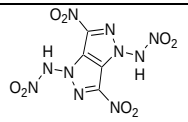
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
296	[92]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	858.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.665	7734	262
301	[94]		$C_8H_4N_8O_8$	-47.0	32.9	1.762			1.866	1.847	326.6	328.3	331.19	2.4703	8304	320	8123	302	7808	267	7864	8025	296	1.857	8135	281
302	[94]		$C_8H_6N_8O_8$	-58.7	31.6	1.677			1.803	1.772	280.1	211.7	304.39	2.3891	7801	277	7719	264	7392	232	7441	7588	258	1.788	7700	241
303	[94]		$C_6H_4N_8O_4$	-63.5	44.4	1.733			1.905	1.763	345.3	454.7	489.34	2.4583	8170	307	8059	296	7309	232	7567	7776	278	1.834	7838	241
304	[94]		$C_7H_6N_8O_4$	-78.1	42.1	1.634			1.820	1.677	307.2	430.1	462.54	2.3771	7624	261	7439	238	6832	195	7078	7243	231	1.748	7336	197
305	[95]		$C_6H_4N_{12}O_4$	-67.4	50.6	1.85				1.716	711.2	828.5	334.43	2.4981	8695	359	7919	283	7541	256	7855	8002	299	-	8445	283
306	[95]		$C_6H_2N_{10}O_4$	-68.8	46.4	1.68				1.684	832.9	807.7	289.79	2.6581	8469	312	7700	262	7135	216	7496	7700	263	-	7685	227
307	[95]		$C_{10}H_6N_{10}O_4$	-92.1	42.4	1.75				1.567	696.5	835.2	225.57	2.4957	8326	318	6730	172	6971	212	7136	7291	234	-	7781	226

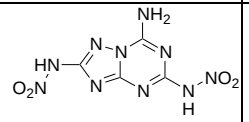
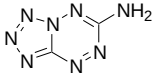
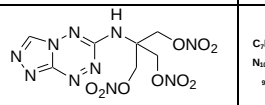
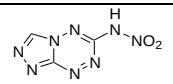
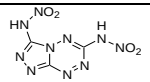
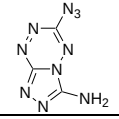
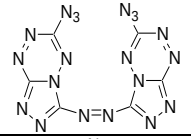
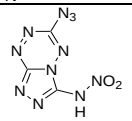
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
308	[95]		$C_{10}H_8N_{12}O_2$	-107.2	51.2	1.81				1.540	864.3	1019.7	565.19	2.2557	7912	307	6358	137	6891	211	7137	7074	218	-	8482	264
309	[95]		$C_6N_8O_2$	-74.0	51.8	1.62				1.613	933.9	810.9	654.87	2.3927	7612	258	8220	311	6980	202	7509	7580	257	-	7640	218
310	[95]		$C_6H_2N_{14}O_2$	-58.2	64.9	1.69				1.715	1224.3	1301.6	736.27	2.6207	8415	311	9053	389	7486	239	8118	8268	313	-	8477	280
311	[95]		$C_6H_4N_{12}O_4$	-67.4	50.6	1.83				1.716	684.1	828.5	266.14	2.4981	8622	350	7645	257	7451	249	7785	7876	285	-	8323	273
312	[95]		$C_6H_6N_{14}O_4$	-66.3	54.1	1.68				1.790	769.9	793.8	427.17	2.3381	7687	272	7951	286	7140	217	7590	7592	258	-	7774	224
313	[95]		$C_6H_6N_{14}O_2$*	-82.4	59.4	1.79				1.685	920.8	262	674.05	2.2581	7853	300	7693	262	7180	228	7645	7593	263	-	8458	262
314	[95]		$C_6H_2N_{14}O_8$	-34.1	46.4	2.12			2.033	1.826	1038.0	964.9	352.27	2.7127	10336	520	8875	372	9274	418	9424	9477	437	1.929	10114	461
315	[95]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.80			2.062	1.770	718	803.7	494.65	2.6609	8939	362	9602	440	8371	311	8797	8927	371	1.916	8830	335

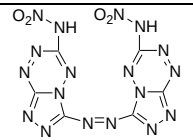
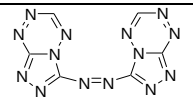
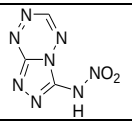
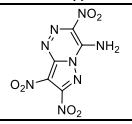
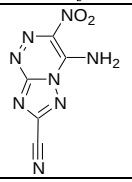
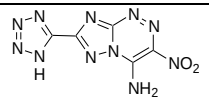
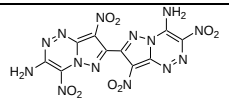
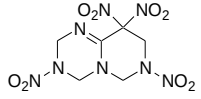
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
316	[95]		$C_6H_8N_{12}O_{12}$	-27.6	36.2	1.70			1.833	1.687	246	271.8	-161.25	2.7107	8676	327	9005	384	8091	280	8200	8493	330	1.760	8190	285
317	[95]		$C_6H_8N_{20}$*	-83.3	72.9	1.53		1.360		1.462	1940	2170.5	1601.87	2.4203	7361	231	-	-	6962	194	7657	7327	212	1.411	7690	209
318	[95]		$C_{20}H_{12}N_{24}O_{16}$	-56.8	39.8	1.74			1.889	1.742	1382	1331.9	1089.55	2.8391	9158	361	8130	303	7652	254	7799	8185	306	1.816	8070	269
319	[95]		$C_{20}H_{16}N_{28}O_{26}$	-56.6	43.4	1.75			1.879	1.763	1483	1563.8	1178.83	2.5191	8385	322	8337	322	7731	261	7904	8089	302	1.821	8190	273
320	[95]		$C_{20}H_8N_{28}O_{24}$	-31.2	38.3	1.82			1.944	1.843	1359	1298.3	1000.63	3.2683	10623	460	8785	364	8283	306	8435	9032	377	1.893	8640	323
321	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.81			1.983	1.852	687.6	677.3	343.33	2.6729	9010	368	9202	403	8559	326	8773	8886	366	1.917	8928	348

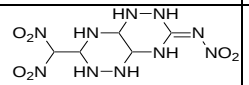
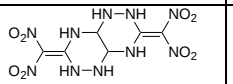
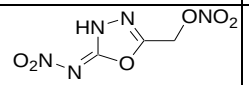
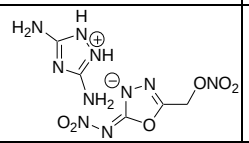
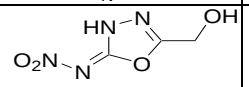
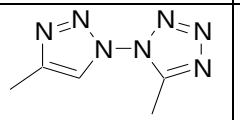
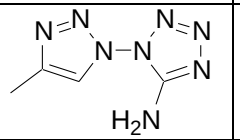
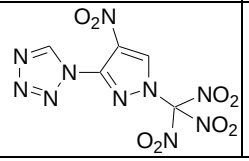
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
322	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.82			1.983	1.852	687.6	677.3	343.33	2.6729	9048	372	9202	403	8592	330	8801	8911	368	1.917	8964	351
323	[95]		$C_6H_6N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	744.1	849.9	392.65	2.7653	9212	377	9200	402	8624	330	8763	8950	370	1.864	8834	346
324	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.85			1.983	1.852	591.8	493.3	343.33	2.6729	9165	385	9202	403	8600	333	8799	8942	374	1.917	8979	356
325	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.83			1.983	1.852	612.4	493.3	343.33	2.6729	9087	376	9202	403	8554	328	8762	8901	369	1.917	8932	251
326	[95]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.77		1.470	2.107	1.712	1289.7	1379.9	960.45	2.6077	8687	342	9365	418	8175	293	8663	8722	351	1.591	8702	314
327	[96]		$C_8N_{10}O_4$	-25.4	55.6	1.901 (β), 1.91 (α)			2.146	1.949	787	861.4	647.15	2.8147	9755	431	9863	464	8674	345	9153	9361	413	2.047	9400	380
328	[96]		$C_8N_{10}O_8$	-18.8	41.2	1.89			2.044	1.994	758.5	735.0	495.83	2.8267	9743	427	9327	414	8797	353	9050	9229	398	2.019	9631	440
329	[96]		$C_8N_{14}O_4$	-38.5	59.0	1.89		1.470	2.171	1.835	1318.8	1437.6	1112.95	2.7615	9564	417	9561	436	8499	330	9014	9160	394	1.652	9256	367

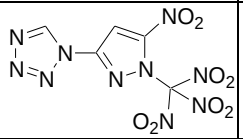
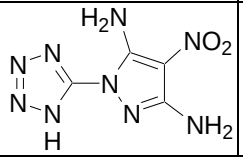
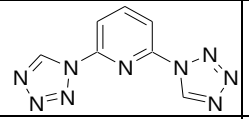
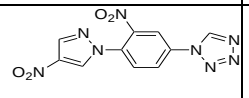
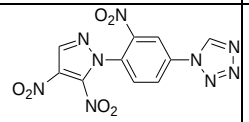
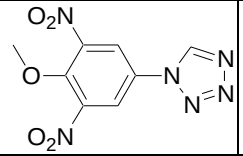
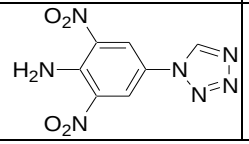
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
330	[96]		$C_7H_5N_9O_8$	-35.2	37.0	1.90			2.014	1.932	375.3	207.9	445.16	2.4715	8803	375	8664	352	8415	324	8488	8592	1.973	1.973	8792	343
331	[96]		$C_6H_5N_9O_8$	-47.3	35.5	1.80			1.949	1.847	301.9	275.3	418.36	2.3903	8232	323	8240	313	7908	277	7964	8086	304	1.898	8257	292
332	[96]		$C_6H_7N_9O_8$	-58.5	34.1	1.76			1.890	1.775	299.1	250.7	391.56	2.3091	7885	297	7847	276	7671	258	7680	7771	277	1.833	8051	272
333	[96]		$C_7H_6N_{10}O_8$	-35.9	39.3	1.79			2.005	1.929	341.9	399.0	432.55	2.4916	8460	333	8758	361	8035	285	8201	8364	326	1.967	8356	296
334	[96]		$C_7H_5N_{11}O_{10}$	-21.9	38.4	1.94			2.037	1.972	521.5	521.7	441.47	2.5989	9306	413	9127	396	8900	367	8997	9082	392	2.005	9226	388
336	[96]		$C_{24}H_9N_{15}O_{12}$	-92.6	30.0	1.69			1.834	1.719	695.0	1257.3	1006.99	2.3272	7695	274	6535	154	6493	180	6593	6829	203	1.776	7032	199
337	[96]		$C_6H_3N_9$	-107.4	62.7	1.77				1.811	463.0	915.2	774.94	2.3185	7943	302	-	-	5902	153	6725	6857	228	-	7160	194

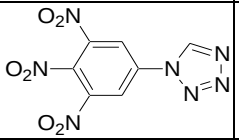
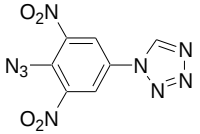
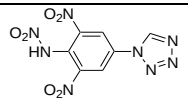
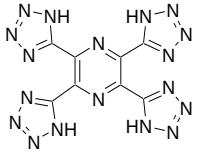
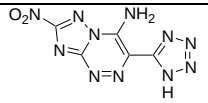
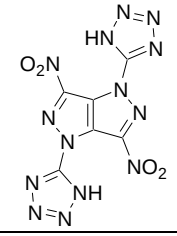
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
338	[96]		$C_6N_{12}O_6$	-28.6	50.0	1.82				2.033	710.0	1109.3	814.41	2.9407	9757	411	9443	425	8093	292	8540	8958	376	2.119	8376	312
339	[96]		$C_2H_6N_8$	-93.4	72.7	1.73				1.774	470.5	453.8	501.24	2.2128	7542	273	-	-	7087	217	7751	7460	245	-	8580	259
340	[96]		$C_4H_2N_8O_4$	-40.4	42.4	1.85			1.950	1.942	322.6	140.9	295.21	2.3659	8340	339	8781	363	8230	305	8403	8438	336	1.946	8250	274
341	[96]		$C_6H_6N_8O_{10}$	-18.4	32.2	1.82			1.863	1.856	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.860	8674	331
342	[96]		$C_4N_8O_8$	0.0	38.9	1.95			2.127	2.085	550.9	295.8	291.93	2.7807	9859	448	9834	462	9443	414	9663	9700	441	2.106	9460	409
343	[96]		$C_4H_4N_8O_4$	-42.1	49.1	1.84			1.921	1.930	467.0	256.9	381.03	2.4061	8413	341	8957	380	8413	318	8626	8602	346	1.925	8864	339
344	[96]		$C_4H_2N_{10}O_8$	-5.0	44.0	1.93			2.000	2.042	595.2	270.7	398.87	2.6207	9329	412	9933	471	9363	405	9594	9555	429	2.021	9507	418

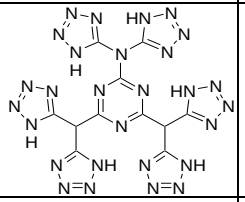
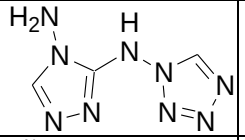
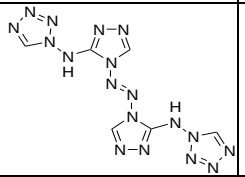
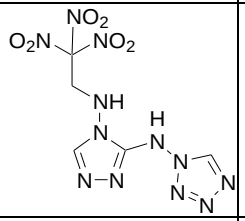
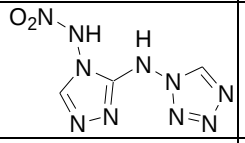
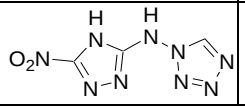
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
346	[96]		$C_4H_4N_{10}O_4$	-37.5	54.7	1.84			1.980	1.856	544.9	500.7	524.45	2.3534	8272	333	9345	416	8368	315	8721	8676	355	1.918	8787	342
347	[96]		$C_3H_5N_9O$	-57.9	81.1	1.68				1.714	686.2	867.5	568.83	2.5014	8086	292	-	-	7664	250	8502	8084	271	-	8449	270
350	[96]		$C_7H_8N_{10}O_9$	-38.3	37.2	1.79			1.799	1.700	246.0	251.2	14.83	2.5172	8527	337	8366	325	8261	302	8285	8360	321	1.749	9290	294
351	[96]		$C_3H_2N_8O_2$	-43.9	61.5	1.76			2.076	1.782	675.1	567.8	524.32	2.5074	8392	324	9344	416	8182	293	8678	8649	344	1.929	8621	304
352	[96]		$C_3H_4N_{10}O_4$	-19.8	57.9	1.91			2.078	1.890	740.9	709.3	555.56	2.5347	9014	390	10102	487	9086	379	9517	9430	419	1.984	9301	383
355	[96]		$C_3H_2N_{10}$	-62.9	78.6	1.74		1.270		1.674	913.6	1034.0	801.73	2.4748	8237	312	-	-	7732	260	8524	8164	286	1.472	8581	285
356	[96]		C_6N_{20}	-54.5	79.5	1.77		1.370		1.674	2194.6	2335.0	1626.43	2.8903	9413	381	-	-	8028	283	8889	8777	332	1.522	8690	302
357	[96]		$C_3HN_{11}O_2$	-32.3	69.1	1.85		1.456	2.196	1.782	951.8	1056.3	810.65	2.5821	8921	371	10187	494	8591	333	9255	9238	399	1.619	9236	363

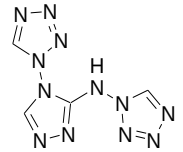
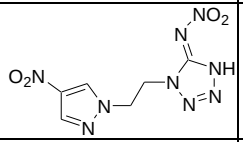
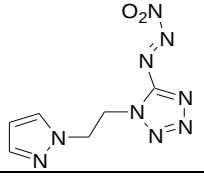
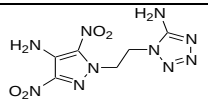
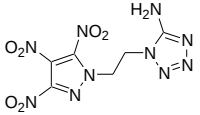
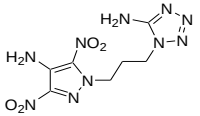
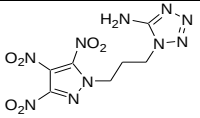
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
358	[96]		$C_6H_2N_{18}O_4$	-36.9	64.6	1.85			2.158	1.805	2037.8	1595.0	1116.25	2.7955	9494	404	9816	460	6522	192	7846	8420	352	1.982	9500	398
359	[96]		$C_6H_2N_{14}$	-77.0	72.6	1.91				1.644	1525.2	1465.2	1053.77	2.7409	9587	423	-	-	8049	298	8676	8771	360	-	9200	348
360	[96]		$C_3H_2N_8O_2$	-43.9	61.5	1.81			2.076	1.782	647.8	659.7	524.32	2.5074	8574	344	9344	416	8292	306	8775	8746	355	1.929	8800	332
361	[96]		$C_3H_6N_8O_2$	-29.6	41.5	1.95			1.971	1.897	370.0	410.7	341.85	2.5194	9118	404	9062	389	8123	307	8379	8670	367	1.934	8998	360
363	[96]		$C_3H_2N_8O_2$	-69.9	54.4	1.81			2.056	1.729	533.5	664.6	688.02	2.3594	8185	322	8200	309	7349	240	7773	7877	290	1.893	7763	231
364	[96]		$C_5H_5N_{11}O_2$	-61.0	61.8	1.82			2.067	1.776	752.7	926.9	728.72	2.4734	8521	343	8709	357	7685	264	8207	8280	321	1.921	8312	270
365	[96]		$C_{10}H_4N_{14}O_8$	-50.0	43.7	1.85			1.971	1.859	899.0	912.2	748.55	2.5575	8669	347	8484	336	7876	275	8104	8283	319	1.915	8572	314
366	[96]		$C_6H_6N_8O_8$	-40.0	35.0	1.86			1.933	1.748	124.76	223.3	166.22	2.4573	8621	356	8328	321	8527	329	8430	8476	335	1.841	8798	338.7

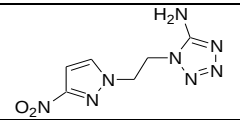
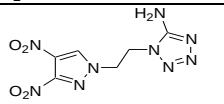
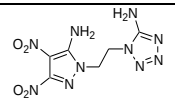
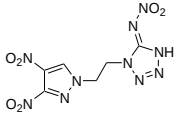
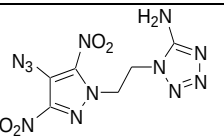
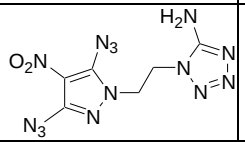
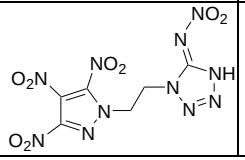
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
367	[96]		$C_5H_{10}N_{10}O_8$	-47.0	45.7	1.73			1.832	1.791	304.2	-66.5	184.42	1.8909	6733	230	8532	340	8130	286	8247	7910	285	1.812	8492	294
368	[96]		$C_7H_9N_9O_8$			1.85			1.892	1.876	348.2	35.0	270.09	1.9041	7098	268	8665	352	8610	334	8622	8249	318	1.884	8862	352
370	[98]		$C_3H_3N_5O_6$	-11.7	34.1	1.875			1.794	1.796	26.13	-21.4	-152.23	2.4461	8644	361	8732	359	8858	357	8880	8778	359	1.795	8855	349.9
374	[98]		$C_5H_8N_{10}O_6$	-42.1	46.0	1.814	1.719			1.733	508.38	279.1		2.0983	7511	286	8622	348	7910	279	8153	8049	304	1.726	8821	321.2
376	[98]		$C_3H_4N_4O_4$	-40.0	35.0	1.811			1.943	1.678	-75.57	-107.6	-161.48	2.3388	8134	320	7855	277	8042	288	8047	8020	295	1.810	8140	272.2
377	[99]		$C_5H_7N_7$*	-130.8	59.4	1.47				1.414	699.62	812.5	481.10	2.3378	6973	203	-	-	6223	151	6701	6632	177	-	7725	245
378	[99]		$C_4H_6N_8$*	-105.9	67.4	1.52				1.536	747.17	895.0	535.53	2.3390	7146	219			6741	181	7292	7060	200	-	7724	203
379	[99]		$C_5H_2N_{10}O_8$	-14.5	42.4	1.79			1.991	1.886	602	582.9	396.52	2.7469	9124	370	9554	435	8641	330	8898	9054	378	1.938	8860	340

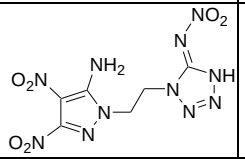
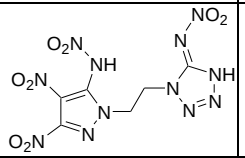
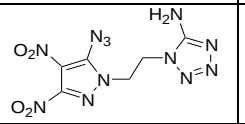
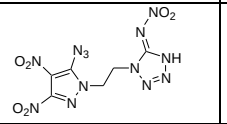
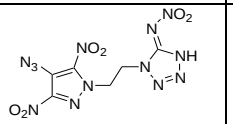
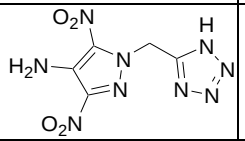
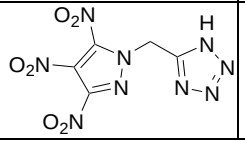
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
380	[99]		$C_5H_2N_{10}O_8$	-14.5	42.4	1.76			1.991	1.886	629	582.9	396.52	2.7469	9005	357	9554	435	8566	321	8834	8990	371	1.938	8780	320
381	[99]		$C_4H_5N_9O$	-64.4	59.7	1.76			1.933	1.772	407.7	483.3	493.71	2.2461	7724	288	8209	310	6410	180	7360	7426	259	1.853	8257	259
382	[99]		$C_7H_5N_9$	-122.7	58.6	1.59				1.518	882.5	941.3	753.40	2.3910	7504	247	-	-	6188	157	6707	6800	202	1.724	7120	172
383	[99]		$C_{10}H_6N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	676.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
384	[99]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
385	[99]		$C_8H_6N_8O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	335.4	181.61	2.2957	7651	274	6859	184	7097	216	7075	7170	225	1.677	7274	199
386	[99]		$C_7H_5N_7O_4$	-79.6	39.0	1.69			1.825	1.675	369.0	427.6	368.26	2.2569	7522	265	7279	223	7051	212	7192	7261	233	1.750	7899	241

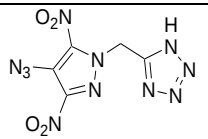
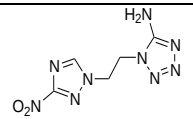
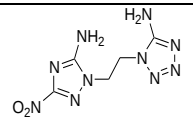
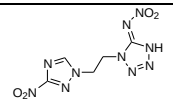
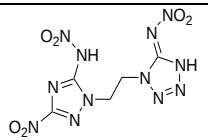
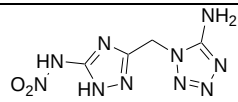
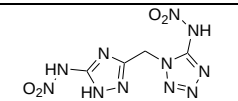
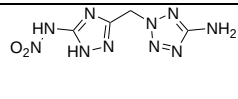
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
387	[99]		$C_7H_3N_7O_6$	-54.1	34.9	1.83			1.890	1.750	470.5	453.2	323.71	2.4442	8479	342	7988	289	7989	286	8022	8120	306	1.820	8298	284
388	[99]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	950.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.516	7734	262
389	[99]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	541.8	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.755	8208	280
390	[99]		$C_6H_4N_{18}$	-81.8	71.6	1.95				1.681	1383	1778.2	1343.61	2.4267	8856	389	-	-	7518	263	8191	8188	326	-	8655	280
391	[99]		$C_5H_3N_{11}O_2$	-61.0	61.8	1.87			2.067	1.776	721.6	926.9	728.72	2.4734	8700	363	8709	357	7783	275	8293	8371	332	1.921	9010	328
392	[99]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309

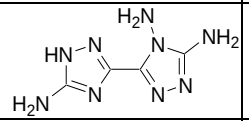
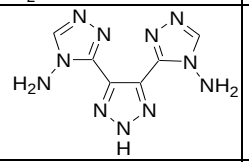
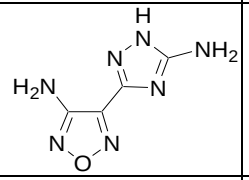
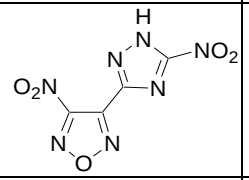
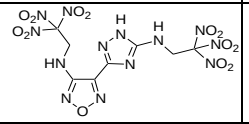
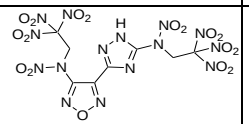
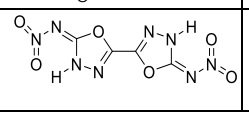
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
393	[99]		$C_{11}H_8N_{28}$	-78.1	73.7	1.88				1.664	1833.0	2719.1	2025.10	2.5203	8865	375	-	-	7280	241	8065	8070	308	-	7430	251
396	[99]		$C_3H_5N_9$	-81.4	75.4	1.65				1.662	862.9	550.5	621.11	2.3402	7591	262	-	-	7632	245	8236	7820	254	-	8789	277
397	[99]		$C_6H_6N_{18}$	-72.7	76.3	1.68				1.661	1799.4	1586.1	1265.19	2.6211	8378	307	-	-	7669	250	8357	8135	278	-	8599	276
398	[99]		$C_5H_6N_{15}O_6$	-33.9	50.9	1.77			1.927	1.772	1091.8	690.7	558.48	2.4997	8409	327	9346	416	8791	339	9032	8894	361	1.849	9004	349
399	[99]		$C_3H_4N_{10}O_2$	-45.3	66.0	1.78			2.027	1.777	923.3	787.3	630.03	2.4475	8310	323	9240	406	8591	325	9065	8802	351	1.902	9141	336
400	[99]		$C_3H_3N_9O_2$	-44.6	64.0	1.74			2.050	1.787	950.6	484.1	555.97	2.4274	8117	305	9288	411	8541	317	9016	8740	344	1.918	8885	321

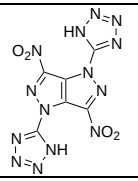
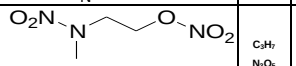
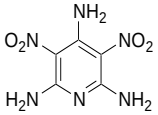
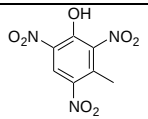
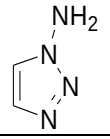
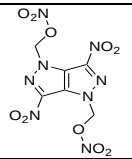
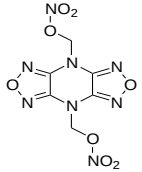
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
401	[99]		$C_4H_4N_{12}$	-72.7	76.3	1.71				1.683	1256.5	964.8	908.36	2.5876	8409	315	-	-	7848	265	8514	8257	290	-	9695	284
402	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.65			1.818	1.649	463	602.4	405.89	2.3711	7665	266	7941	285	7337	226	7571	7628	259	1.734	7824	231
403	[99]		$C_6H_7N_{10}O_4$	-91.1	53.2	1.50			1.827	1.509	522.3	818.5	475.60	2.3912	7192	218	6873	185	6435	164	6895	6849	189	1.668	7041	163
404	[99]		$C_6H_6N_{10}O_4$	-67.6	49.3	1.67			1.992	1.678	373.7	565.3	450.79	2.2911	7539	263	8057	296	7277	224	7569	7610	261	1.835	7889	232
405	[99]		$C_6H_4N_{10}O_6$	-45.8	44.6	1.71			1.873	1.745	430.7	594.0	406.24	2.4784	8138	301	8689	355	7817	263	8033	8169	306	1.809	8172	271
406	[99]		$C_7H_{10}N_{10}O_4$	-80.5	47.0	1.65			1.920	1.611	364.6	540.7	430.15	2.2099	7278	246	7503	244	7069	210	7301	7288	233	1.765	7768	218
407	[99]		$C_7H_8N_{10}O_6$	-58.5	42.7	1.67			1.805	1.676	437.3	569.4	385.60	2.3972	7797	276	8205	310	7565	242	7725	7823	276	1.740	7959	247

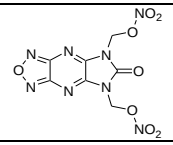
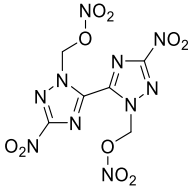
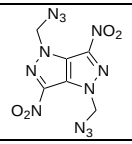
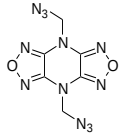
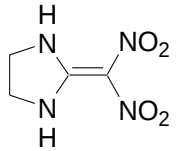
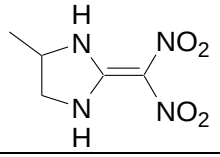
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
408	[99]		$C_6H_8N_8O_2$	-99.9	50.0	1.53			1.920	1.552	355.8	610.8	450.70	2.2638	7013	214	6285	130	6330	160	6730	6590	168	1.736	7072	168
409	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.59			1.818	1.659	394.7	602.4	428.47	2.3711	7458	245	7941	285	7067	205	7363	7457	245	1.739	7516	206
410	[99]		$C_6H_8N_{10}O_4$	-67.6	49.3	1.68			1.992	1.678	369.0	565.3	450.79	2.2911	7573	266	8057	296	7300	227	7588	7630	263	1.835	7883	230
411	[99]		$C_6H_6N_{10}O_6$	-45.8	44.6	1.69			1.873	1.735	485.6	594.0	383.66	2.4784	8066	293	8689	355	7814	261	8031	8150	303	1.804	8114	267
412	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.70		1.443	1.938	1.674	784.9	1090.9	714.80	2.4458	8021	293	8660	352	7692	253	8051	8106	299	1.558	8185	261
413	[99]		$C_6H_6N_{14}O_2$	-67.9	64.0	1.63		1.384	2.005	1.608	1057.8	1480.6	1023.36	2.4132	7695	264	8334	322	7286	221	7842	7789	269	1.496	7917	231
414	[99]		$C_6H_5N_{11}O_8$	-29.0	42.9	1.77			1.914	1.788	516.3	585.6	361.43	2.4391	8253	318	9155	398	8337	305	8529	8568	340	1.851	8555	316

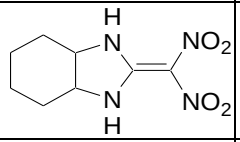
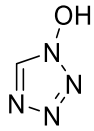
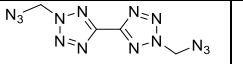
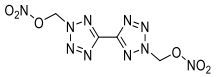
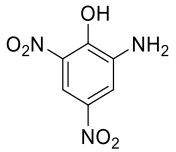
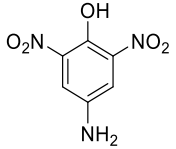
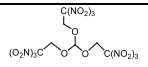
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
415	[99]		$C_6H_7N_{11}O_6$	-46.2	46.8	1.76			2.045	1.731	455.8	556.9	405.98	2.2518	7738	289	8778	363	7990	279	8201	8177	310	1.888	8388	288
416	[99]		$C_6H_6N_{12}O_8$	-29.9	44.9	1.84			1.907	1.791	501.8	579.1	414.90	2.3591	8287	334	9224	405	8534	327	8712	8689	355	1.849	8804	342
417	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.71		1.443	1.938	1.674	727.2	1090.9	714.80	2.4458	8057	297	8660	352	7657	252	8024	8100	300	1.558	8186	263
418	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.81		1.544	1.971	1.453	812.5	1082.5	669.99	2.4065	8309	329	9209	403	8336	309	8634	8622	347	1.498	8748	327
419	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.78		1.544	1.971	1.724	844.4	1082.5	669.99	2.4065	8204	318	9209	403	8270	301	8579	8566	341	1.634	8659	318
420	[99]		$C_5H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	439.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
421	[99]		$C_5H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	468.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
422	[99]		$C_5H_5N_{11}O_4$	-42.7	54.8	1.81		1.473	2.031	1.741	782.1	965.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
423	[99]		$C_5H_7N_9O_2$	-81.7	56.0	1.58			2.009	1.589	382.8	637.9	504.13	2.3651	7410	241	7265	222	6690	183	7181	7136	215	1.799	7395	188
424	[99]		$C_5H_8N_{10}O_2$	-79.9	58.3	1.66			1.825	1.614	359.4	695.9	526.45	2.2851	7492	259	7349	230	6879	200	7390	7278	230	1.720	7807	216
425	[99]		$C_5H_6N_{10}O_4$	-53.3	51.8	1.66			1.892	1.663	476.8	629.5	459.32	2.3258	7590	264	8668	353	7534	240	7887	7920	286	1.777	8113	256
426	[99]		$C_5H_6N_{12}O_6$	-33.9	50.9	1.69			1.927	1.753	511.5	709.7	490.56	2.3531	7758	277	9346	416	7947	270	8299	8338	321	1.840	8690	322
427	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.71			1.919	1.699	476.2	659.1	557.65	2.2662	7611	273	8236	312	7406	236	7929	7796	274	1.809	8187	249
428	[99]		$C_4H_5N_{11}O_4$	-38.4	56.8	1.81			1.966	1.785	285.0	742.7	566.57	2.3735	8222	324	9388	420	7847	274	8356	8453	339	1.875	8750	318
429	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.72			1.919	1.699	462.8	659.1	557.65	2.2662	7644	277	8236	312	7411	237	7937	7807	275	1.809	8213	252

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
430	[100]		$C_4H_7N_9$*	-101.6	69.6	1.68				1.670	396.8	544.9	538.26	2.0588	7006	237	-	-	6392	174	7191	6863	206	-	7818	204
431	[100]		$C_6H_7N_{11}$*	-106.4	66.1	1.65				1.648	763.0	784.7	772.08	2.2049	7266	246	-	-	6508	178	7128	6967	212	-	7806	207
432	[101]		$C_4H_5N_7O$	-91.0	58.7	1.596				1.685	404.03	366.9	325.54	2.1587	6986	223	5873	92	6656	182	7161	6669	166	-	6846	193
433	[101]		$C_4HN_7O_5$	-24.7	43.2	1.863			2.013	1.883	499.91	234.2	236.44	2.5333	8837	369	9321	414	8668	340	8907	8933	374	1.948	9152	371
434	[101]		$C_8H_7N_{13}O_{13}$	-21.1	36.9	1.908			1.869	1.822	451.38	340.8	200.28	2.4777	8849	379	9135	396	8962	369	8980	8982	381	1.845	9087	381
435	[101]		$C_8H_5N_{15}O_{17}$	-4.1	36.0	1.932			1.920	1.891	648.95	446.6	206.88	2.8925	10100	458	9560	436	9383	407	9455	9624	434	1.905	9355	401
453	[102]		$C_4H_2N_8O_6$	-18.6	43.4	1.99			1.981	1.849	159.8	313.1	66.11	2.3467	8765	392	8566	343	8790	363	9006	8782	366	1.915	9457	403.9

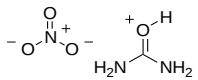
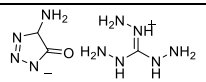
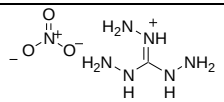
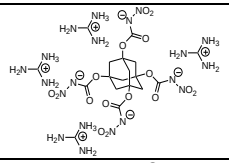
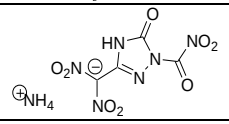
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
454	[103]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
460	[26]		$C_3H_7N_3O_5$	-43.6	25.5	1.53			1.364	1.547	-150.0	-125.7	-191.46	2.4444	7414	233	7345	229	7676	236	7536	7493	233	1.456	8050	259
461	[38]		$C_5H_6N_6O_4$	-67.2	39.2	1.82			1.744	1.726	-38.9	11.1	156.76	2.0308	7350	278	7663	259	7393	244	7488	7474	260	1.735	7749	224
462	[38]		$C_7H_5N_3O_7$	-62.5	17.3	1.62			1.764	1.677	-252.3	-216.1	-195.28	2.2356	7242	239	6987	196	7558	237	7385	7293	224	1.720	6763	180
463	[24]		$C_2H_4N_4$*	-114.2	66.6	1.441				1.523	285.6	278.6	258.07	2.2528	6697	187	-	-	6268	151	6882	6616	169	-	7767	19.5
465	[105]		$C_6H_4N_8O_{10}$	-18.4	32.2	1.82			1.863	1.884	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.873	8674	331
466	[105]		$C_6H_4N_8O_8$	-30.4	35.4	1.84			1.874	1.853	276.6	185.4	-45.93	2.6183	8980	373	8546	341	8449	321	8493	8617	345	1.864	8669	334

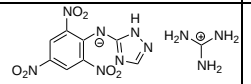
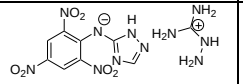
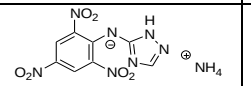
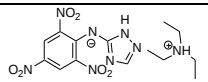
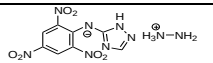
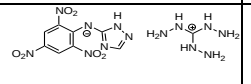
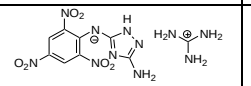
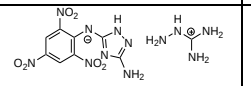
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
467	[105]		$C_7H_4N_8O_8$	-39.0	34.1	1.79			1.870	1.840	-7.2	-3.4	-25.84	2.6909	8979	362	7994	290	7746	265	7860	8145	306	1.855	8057	273
468	[105]		$C_6H_6N_{10}O_{10}$	-17.0	37.2	1.83			1.908	1.839	113.6	179.5	97.25	2.7457	9281	387	9065	390	8460	321	8604	8852	366	1.873	8639	327
469	[105]		$C_6H_4N_{12}O_4$	-51.9	54.5	1.71		1.443	2.006	1.699	946.3	1056.6	867.77	2.5531	8324	310	8868	371	7816	263	8209	8304	315	1.571	8292	276
470	[105]		$C_6H_4N_{12}O_2$	-69.5	60.9	1.68		1.357		1.652	1100.2	1180.7	835.63	2.4731	8017	289	8304	319	7484	238	7971	7944	282	1.504	8323	278
471	[47]		$C_4H_6N_4O_4$	-64.3	32.2	1.69			1.717	1.668	-5.7	-56.0	75.27	2.1575	7278	253	7097	206	7566	244	7483	7356	234	1.692	8394	286
472	[47]		$C_5H_8N_4O_4$	-85.0	29.8	1.62			1.618	1.567	53.3	-80.6	34.29	2.0763	6867	221	6292	131	7225	217	7087	6868	190	1.593	7720	230

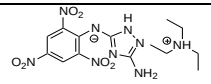
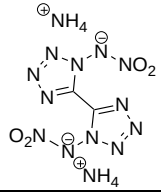
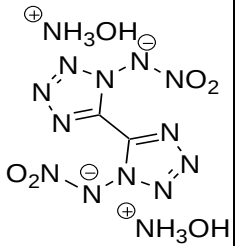
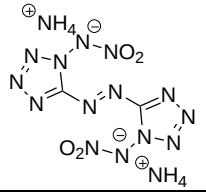
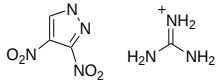
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
473	[47]		$C_8H_{12}N_4O_4$*	-126.2	24.6	1.54			1.478	1.472	107.4	-96.6	39.01	1.8399	6097	173	4706	-17	6387	164	6239	5857	160	1.475	7251	177
474	[106]		CH_2N_4O	-37.2	65.1	1.63			2.075	1.681	252	238.1	111.87	2.4741	7840	271	8682	354	7977	265	8516	8254	297	1.825	8405	269
478	[107]		$C_4H_4N_{14}$	-64.5	79.0	1.62		1.311	2.147	1.551	1258	1596.1	1130.13	2.5885	8073	281	-	-	7444	230	8238	7918	256	1.670	8155	237
479	[107]		$C_4H_4N_{10}O_6$	-22.2	48.6	1.69			1.955	1.764	441	600.8	248.57	2.7337	8693	326	9054	389	8152	284	8496	8599	333	1.860	8377	286
480	[108]		$C_6H_5N_3O_5$	-76.3	21.1	1.69			1.744	1.679	-262.4	-201.8	-118.62	2.1295	7209	249	6451	146	6726	193	6635	6755	196	1.712	6553	162
481	[109]		$C_6H_5N_3O_5$	-76.3	21.1	1.78			1.744	1.679	-0.5	-201.8	-118.62	2.1295	7488	279	6451	146	7465	246	7179	7146	224	1.712	7458	225
482	[110]		$C_7H_7N_9O_{21}$	10.1	22.8	1.81			1.785	1.851	-1021	-519.9	-781.13	2.9306	9687	405	8675	353	8741	340	8702	8951	366	1.818	-	-

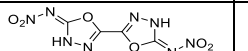
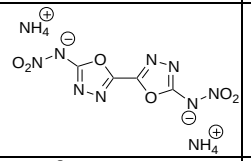
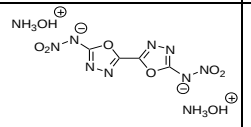
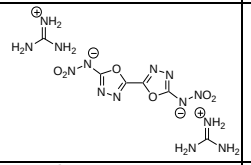
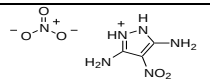
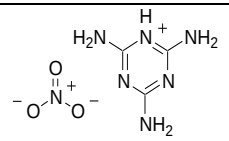
2.1.2 Ionic Compound

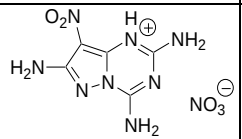
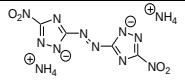
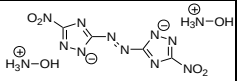
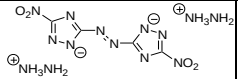
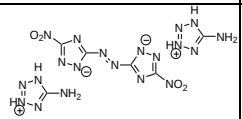
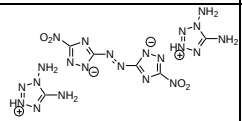
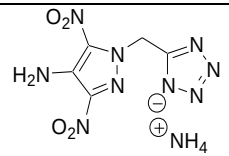
Table 13. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C-J)}$, heat of formation and density for the selected ionic compounds at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

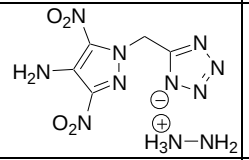
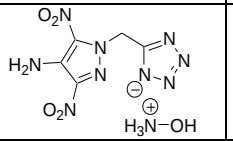
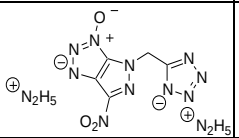
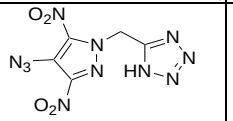
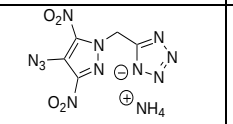
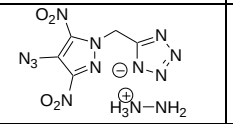
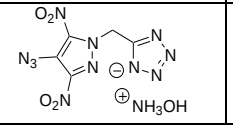
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
50	[43]		$CH_5N_3O_4$	-6.5	17.7	1.655	1.729			1.709	-546.7	-464.3		2.3594	7705	271	8428	330	7218	221	7777	7782	274	1.719	7958	236
52	[45]		$C_3H_{12}N_{10}O^*$	-86.2	68.6	1.569	1.463			1.555	743.27	310.0		1.7316	5928	168	3623	-118	7715	242	8102	6342	146	1.509	9492	318
53	[38]		$CH_9N_7O_3^*$	-33.5	58.7	1.509	1.590			1.714	-69.2	-1073.4		1.9994	6364	181	8827	368	7487	222	8013	7673	257	1.652	8893	279
76	[49]		$C_{18}H_{44}N_{20}O_{16}^*$	-84.4	35.2	1.54	1.551			1.561	-1628	-1313.0		0.8429	3538	68	6836	182	6308	160	6589	5900	137	1.556	6809	159
93	[52]		$C_4H_5N_7O_8$	-14.3	35.1	1.82	1.820			1.827	-337	-205.1		2.3922	8306	331	8573	344	8225	302	8370	8369	326	1.824	8359	279

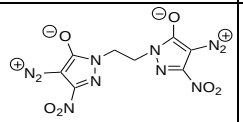
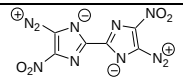
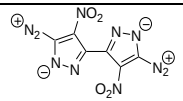
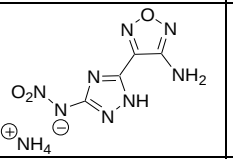
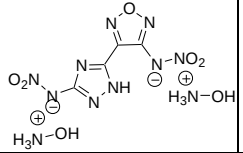
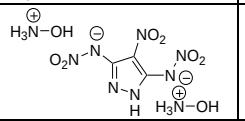
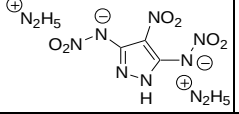
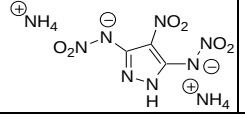
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99	[55]		$C_6H_{10}N_{10}O_6$	-76.8	39.5	1.666	1.657			1.652	197.5	311.1		1.9417	6680	218	7482	242	6988	207	7140	7072	222	1.655	7543	211
100	[55]		$C_6H_{11}N_{11}O_6$	-75.8	41.7	1.80	1.648			1.660	303.4	321.5		1.8617	6849	247	7610	254	7499	249	7554	7378	250	1.654	8302	268
101	[55]		$C_6H_8N_8O_6$	-71.8	35.9	1.84	1.682			1.651	245.9	352.3		2.2758	8064	321	7486	242	7729	268	7651	7732	277	1.667	8400	289
102	[55]		$C_{14}H_{20}N_8O_6$*	-129.2	28.3	1.53	1.474			1.384	68.6	204.9		1.6885	5734	154	5337	42	6036	146	6033	5785	114	1.429	6937	158
103	[55]		$C_6H_9N_9O_6$*	-70.9	38.5	1.62	1.672			1.659	386.9	247.5		2.0957	6913	223	7630	256	7233	217	7339	7279	232	1.665	7640	220
104	[55]		$C_6H_{13}N_{13}O_6$	-74.1	45.6	1.59	1.634			1.673	512.4	342.3		1.7017	5911	170	7837	275	7086	206	7316	7038	217	1.653	7597	208
106	[55]		$C_6H_{11}N_{11}O_6$	-75.8	41.7	1.59	1.648			1.667	154.8	321.5		1.8617	6281	188	7610	254	6734	186	6998	6906	209	1.657	7209	185
107	[55]		$C_6H_{12}N_{12}O_6$*	-74.9	43.7	1.66	1.641			1.674	260.6	319.7		1.7817	6277	197	7728	265	7051	210	7264	7080	224	1.657	7657	214

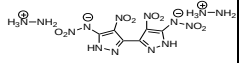
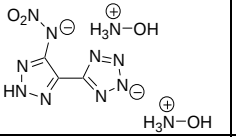
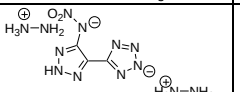
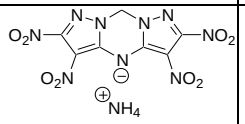
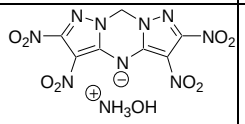
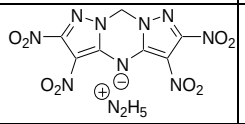
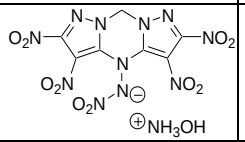
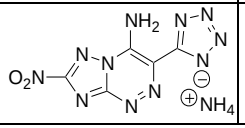
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
108	[55]		$C_{14}H_{21}N_9O_8$*	-126.4	30.6	1.50	1.473			1.402	25.9	167.7		1.7086	5704	150	5530	60	5949	140	6030	5803	117	1.438	6802	151
110	[56]		$C_2H_8N_{14}O_4$	-21.9	67.1	1.795	1.724			1.705	647.7	997.8		2.8821	9497	391	10312	506	8173	296	8900	9220	398	1.715	9519	361
111	[56]		$C_2H_8N_{14}O_6$	-9.9	60.5	1.842	1.766			1.751	789.8	620.1		2.7619	9372	395	10556	529	9399	397	9778	9776	440	1.758	9885	418
112	[56]		$C_2H_8N_{16}O_4$	-20.0	70.0	1.753	1.736			1.675	941.9	1263.4		2.9295	9442	379	10504	524	8778	336	9361	9521	413	1.706	9472	358
122	[37]		$C_4H_7N_7O_4$	-55.3	45.2	1.63	1.669			1.680	40.4	43.9		2.1249	7013	230	8283	317	7290	222	7560	7536	256	1.675	8369	276

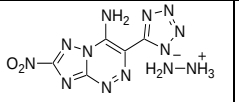
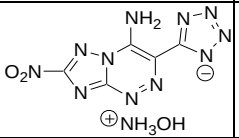
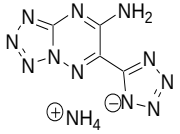
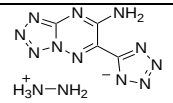
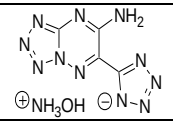
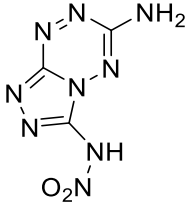
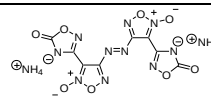
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
123	[58]		$C_4H_2N_8O_6$	-18.6	43.4	1.98			1.981	1.849	278.6	190.5	66.11	2.3467	8731	387	8566	343	8941	375	9130	8842	368	1.915	9388	391
124	[58]		$C_4H_8N_{10}O_6$	-32.9	47.9	1.95	1.728			1.693	-71.8	408.8		2.7193	9685	438	8653	351	8467	333	8698	8876	374	1.711	9225	349
125	[58]		$C_4H_8N_{10}O_{10}$	-19.7	43.2	1.92	1.770			1.725	70.2	31.1		2.5991	9231	404	8968	381	8953	369	9042	9048	385	1.748	9186	341
126	[58]		$C_4H_{12}N_{14}O_6$	-51.0	52.1	1.79	1.670			1.686	-59.9	437.4		2.0511	7315	271	8386	326	7489	248	7931	7780	282	1.678	8027	248
133	[62]		$C_3H_6N_6O_5$	-31.1	40.8	1.76	1.732			1.852	-63.4	-212.2		2.1187	7398	270	8818	367	8174	292	8290	8170	310	1.792	8420	298
134	[62]		$C_3H_7N_7O_3$*	-55.0	51.8	1.65	1.639			1.684	-173.7	-149.1		2.0588	6916	228	8386	326	6763	192	7406	7368	249	1.661	7455	193

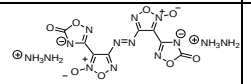
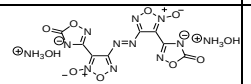
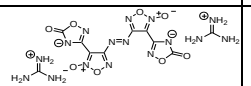
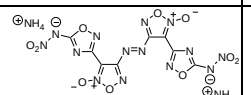
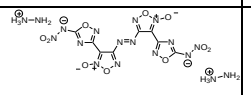
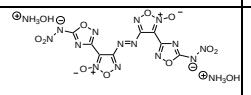
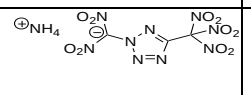
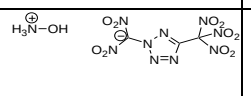
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
135	[62]		$C_5H_7N_9O_5$	-49.8	46.1	1.82	1.817			1.816	60.0	5.8		2.1848	7758	300	8634	350	7776	270	8011	8045	307	1.817	8391	282
157	[66]		$C_4H_8N_{12}O_4$	-44.4	58.3	1.76	1.693			1.614	426.5	675.8		2.6867	8851	349	9200	402	7984	279	8405	8610	343	1.654	8665	295
158	[66]		$C_4H_{16}N_{12}O_6$	-30.0	52.5	1.82	1.739			1.664	279.5	521.7		2.5665	8767	356	9558	436	8402	315	8715	8860	369	1.702	8857	330
159	[66]		$C_4H_{16}N_{14}O_4$*	-45.3	61.6	1.80	1.671			1.634	661.9	601.5		2.3265	8065	314	9287	410	8359	310	8749	8615	345	1.652	9114	329
160	[66]		$C_6H_8N_{20}O_4$	-45.3	66.0	1.71	1.724			1.736	1239.0	1151.1		2.4209	7995	293	9525	433	7862	266	8448	8458	331	1.730	8226	258
161	[66]		$C_6H_{16}N_{22}O_4$*	-45.8	67.8	1.79	1.706			1.744	967.7	1267.0		2.4611	8381	329	9565	436	7826	271	8494	8566	345	1.725	8702	294
175	[69]		$C_5H_6N_{10}O_6$	-58.8	51.5	1.68	1.669			1.659	422.3	535.3		2.4652	7998	288	8433	331	7614	247	7900	7986	289	1.664	8153	251

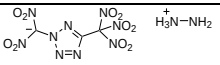
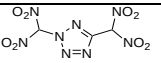
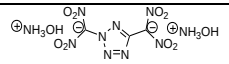
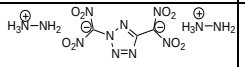
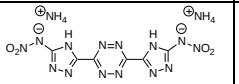
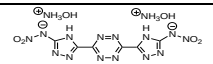
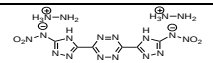
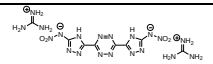
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
176	[69]		$C_5H_7N_{11}O_6$*	-58.5	53.6	1.65	1.812			1.668	573.8	450.6		2.2851	7458	255	8521	339	7696	249	7992	7917	281	1.740	8264	256
177	[69]		$C_5H_6N_{10}O_7$	-50.0	48.6	1.75	1.695			1.685	470.2	298.9		2.4051	8096	306	8696	355	8118	287	8293	8301	316	1.690	8592	298
178	[69]		$C_6H_{14}N_{14}O_3$*	-77.5	59.4	1.69	1.604			1.658	883.2	642.1		2.3519	7755	277	8342	322	7914	267	8269	8070	289	1.631	8778	289
179	[69]		$C_5H_5N_{11}O_4$	-42.7	54.8	1.812		1.473	2.031	1.741	782.1	873.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
180	[69]		$C_5H_8N_{12}O_4$	-48.3	56.4	1.64	1.725			1.657	793.0	965.9		2.6199	8223	292	9028	386	7740	251	8150	8285	310	1.691	8167	258
181	[69]		$C_5H_7N_{13}O_4$	-48.5	58.1	1.72	1.712			1.665	937.1	928.7		2.4398	8077	299	9081	391	8137	286	8503	8450	325	1.688	8640	297
182	[69]		$C_5H_6N_{12}O_5$	-40.7	53.5	1.76	1.746			1.659	834.3	824.6		2.5598	8526	331	9210	403	8354	305	8652	8686	346	1.703	8747	322

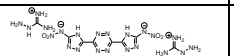
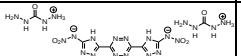
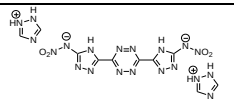
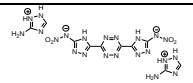
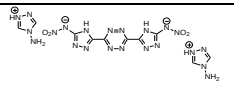
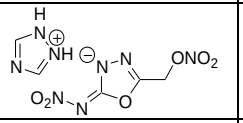
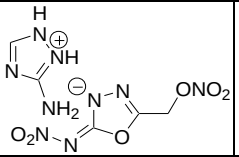
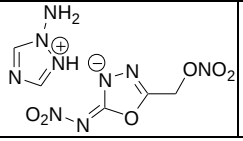
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
185	[70]		$C_8H_4N_{10}O_6$	-57.1	41.7	1.72	1.765		1.926	1.724	441.9	625.9		2.4377	8072	299	8180	307	7352	233	7599	7801	280	1.805	7803	242
195	[72]		$C_8N_{10}O_4$	-46.4	50.7	1.830	1.829		2.112	1.757	819.7	707.1		2.5201	8681	354	8964	380	7927	281	8344	8479	338	1.899	8653	311
196	[72]		$C_8N_{10}O_4$	-46.4	50.7	1.850	1.829		2.112	1.757	987.2	707.1		2.5201	8754	362	8964	380	8189	302	8580	8622	348	1.899	8943	340
202	[73]		$C_2H_9N_9O_3$ *	-59.3	55.0	1.680	1.658			1.679	328.2	481.4		2.3790	7787	277	8386	326	7494	239	7872	7885	281	1.668	8130	246
203	[73]		$C_2H_{11}N_{11}O_7$	-27.2	47.7	1.850	1.736			1.723	327.3	190.7		2.4791	8032	290	9478	428	8286	292	8505	8575	337	1.730	9135	366
204	[74]		$C_2H_9N_9O_8$	-13.4	42.1	1.90	1.757			1.757	95.7	-165.2		2.3991	8603	364	9719	451	9368	402	9370	9265	406	1.757	9394	400
205	[74]		$C_2H_{11}N_{11}O_6$	-29.6	51.8	1.87	1.684			1.721	300.2	138.2		2.1591	7847	314	9570	437	9061	373	9198	8919	375	1.703	9581	385
206	[74]		$C_2H_9N_9O_7$	-27.0	47.2	1.80	1.710			1.707	-22.7	260.0		2.5193	8569	341	9451	426	8479	319	8666	8791	362	1.708	8842	326

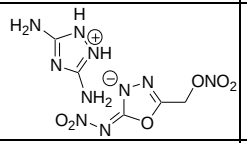
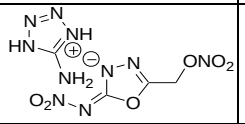
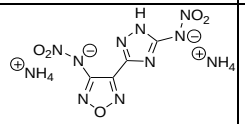
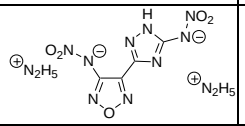
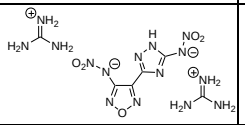
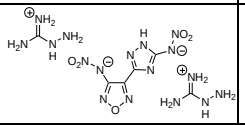
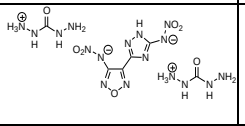
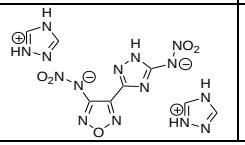
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
207	[74]		$C_6H_{12}N_{14}O_8$	-39.2	48.0	1.85	1.707			1.757	498.0	297.5		2.1311	7709	303	9139	397	8654	338	8765	8567	346	1.732	9118	352
208	[74]		$C_3H_9N_{11}O_4$*	-39.5	58.5	1.82	1.672			1.644	434.3	532.5		2.4331	8414	337	9342	416	8591	330	8900	8812	361	1.658	9282	348
209	[74]		$C_3H_{11}N_{13}O_5$*	-58.2	69.7	1.71	1.588			1.608	663.4	651.9		2.1931	7429	264	8285	317	8006	276	8524	7986	270	1.598	9022	301
213	[75]		$C_7H_6N_{10}O_8$	-40.2	39.1	1.82	1.775			1.836	347.5	319.1		2.5845	8815	359	8642	350	8218	302	8296	8493	337	1.805	8518	317
214	[75]		$C_7H_6N_{10}O_9$	-34.2	37.4	1.86	1.791			1.853	392.9	177.8		2.5244	8802	367	8759	361	8549	331	8572	8670	353	1.822	8893	359
215	[75]		$C_7H_7N_{11}O_8$	-40.7	41.3	1.83	1.762			1.791	496.4	377.0		2.4044	8373	337	8732	359	8384	315	8460	8487	337	1.776	8690	332
218	[75]		$C_7H_6N_{12}O_{11}$	-22.1	38.7	1.87	1.821			1.897	573.1	533.9		2.6518	9185	391	9183	401	8894	359	8960	9056	384	1.859	9034	371
233	[80]		$C_6H_6N_{12}O_2$*	-66.1	63.1	1.811	1.674			1.676	625.3	982.6		2.5864	8786	356	8292	318	7565	255	8091	8184	310	1.675	8793	286

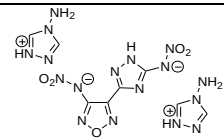
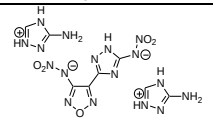
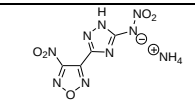
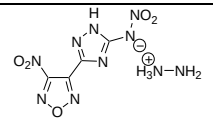
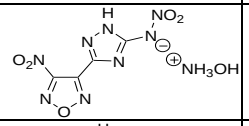
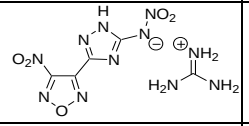
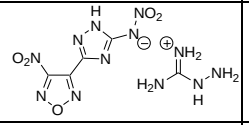
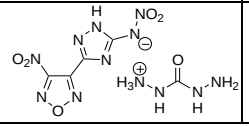
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
234	[80]		$C_5H_7N_{13}O_2$*	-65.4	64.8	1.855	1.662			1.685	781.2	897.9		2.4063	8466	347	8309	319	7932	284	8403	8278	317	1.673	8950	329
235	[80]		$C_5H_6N_{12}O_3$	-56.7	59.6	1.859	1.701			1.678	677.4	746.2		2.5263	8804	367	8761	361	8064	294	8457	8522	341	1.690	9220	331
236	[80]		$C_4H_6N_{12}$	-79.2	75.7	1.725	1.615			1.608	739.5	1073.6		2.5804	8448	320	-	-	7117	219	7909	7825	270	1.611	8313	249
237	[80]		$C_4H_7N_{13}$*	-77.6	76.8	1.742	1.605			1.622	882.1	988.9		2.4003	8055	302	-	-	7432	240	8161	7883	271	1.614	8679	276
238	[80]		$C_4H_6N_{12}O$	-67.2	70.6	1.751	1.651			1.614	785.7	7576		2.5203	8392	322	7414	236	7576	253	8242	6221	270	1.633	8618	280
239	[81]		$C_3H_3N_9O_2$	-44.6	64.0	1.79			2.050	1.804	634.3	625.7	546.64	2.4274	8293	324	9288	411	8175	295	8694	8612	343	1.927	8763	313
246	[84]		$C_8H_{11}N_{12}O_8$	-48.0	42.0	1.65	1.743			1.762	534.88	560.1		2.8439	8798	323	7946	285	7647	246	7647	8058	285	1.752	8234	273

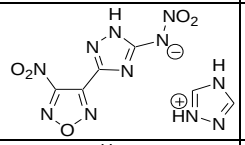
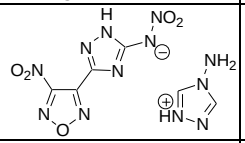
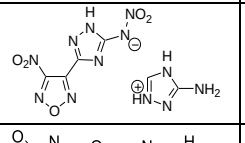
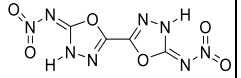
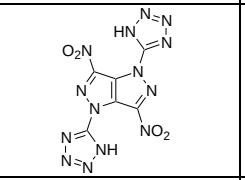
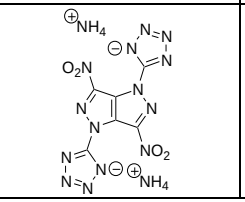
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
247	[84]		$C_8H_{10}N_{14}O_8$	-48.3	45.6	1.71	1.723			1.768	887.15	295.6		2.4837	8151	301	8700	356	8099	282	8255	8301	313	1.746	8453	293
248	[84]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.72	1.773			1.794	666.58	-7.8		2.7237	8787	337	8206	310	8234	293	8326	8388	313	1.784	8445	307
249	[84]		$C_{11}H_{12}N_{16}O_8$	-59.5	46.3	1.65	1.695			1.744	504.79	398.5		2.1757	7196	242	7892	280	6871	198	7293	7313	240	1.720	8150	267
251	[84]		$C_8H_8N_{16}O_{10}$	-32.8	45.9	1.66	1.782			1.778	1060.87	905.9		3.0187	9261	348	8997	383	8134	279	8386	8694	337	1.780	8357	289
252	[84]		$C_8H_{18}N_{18}O_{10}$	-34.0	48.6	1.74	1.763			1.782	1187.52	669.3		2.6585	8701	336	9115	394	8451	310	8677	8736	347	1.772	8860	319
253	[84]		$C_8H_8N_{16}O_{12}$	-24.6	43.1	1.72	1.805			1.804	1405.62	528.2		2.8985	9224	360	9137	396	8717	328	8895	8993	361	1.804	8846	343
255	[85]		$C_3H_4N_{10}O_{10}$*	9.4	41.2	1.79	1.884			1.896	238.1	334.9		2.8211	9317	380	9678	447	9109	367	9332	9359	398	1.890	8617	316
256	[85]		$C_3H_4N_{10}O_{11}$	13.5	39.3	1.92	1.896			1.912	277.8	193.6		2.7610	9683	431	9450	426	9729	436	9873	9762	434	1.896	9054	363

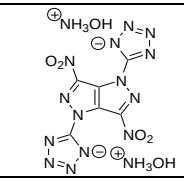
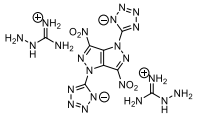
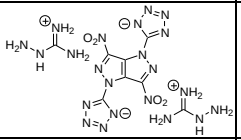
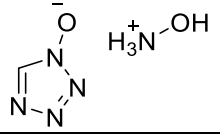
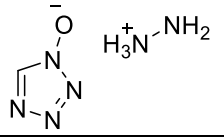
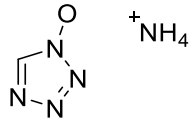
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
257	[85]		$C_3H_5N_{11}O_{10}$	6.8	43.4	1.81	1.866			1.904	383.5	297.8		2.6410	8926	363	9881	466	8889	352	9166	9216	394	1.895	8920	346
258	[85]		$C_3H_2N_8O_8$	5.8	40.3	1.92	1.964			1.881	247.5	312.4	171.36	2.7009	9515	421	9750	454	9393	406	9587	9561	427	1.922	9123	377
259	[85]		$C_3H_8N_{10}O_{10}$	0.0	40.7	1.91	1.814			1.820	103.2	-64.7		2.6065	9214	401	10057	482	9558	420	9604	9608	434	1.817	9590	424
260	[85]		$C_3H_{18}N_{12}O_{10}$	-14.0	49.1	1.83	1.751			1.787	355.5	238.6		2.3665	8272	331	9998	477	9167	376	9329	9192	395	1.769	9230	379
274	[91]		$C_6H_{16}N_{16}O_4$	1.657	60.5	1.79	1.674			1.640	996.0	1190.7		2.5727	8671	345	8897	374	8145	293	8512	8556	337	1.657	8898	311
275	[91]		$C_6H_{16}N_{16}O_6$	-43.8	55.7	1.81	1.711			1.645	1468.2	816.1		2.4525	8430	336	9244	406	8908	353	9142	8931	365	1.678	9267	378
276	[91]		$C_6H_{12}N_{18}O_4$	-56.0	63.0	1.78	1.657			1.654	1361.5	1214.6		2.2125	7702	290	8989	383	8412	312	8765	8467	328	1.655	9214	337
277	[91]		$C_6H_{14}N_{20}O_4$	-66.9	61.7	1.84	1.636			1.644	947.3	1127.3		1.9045	7072	265	8564	343	7848	277	8260	7936	295	1.640	8978	309

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
278	[91]		$C_8H_{16}N_{22}O_4$	-66.1	63.6	1.79	1.624			1.656	1360	1243.2		1.7445	6517	227	8660	352	8032	285	8420	7907	288	1.640	8963	318
279	[91]		$C_8H_{16}N_{22}O_6$	-55.8	59.7	1.82	1.657			1.678	1312.9	1198.4		1.8245	6805	247	9033	387	8350	311	8654	8210	315	1.667	8978	334
280	[91]		$C_{10}H_{10}N_{20}O_4$	-70.8	59.1	1.85	1.677			1.676	1581.4	1578.3		2.2643	8067	323	8375	325	8002	289	8330	8194	312	1.676	8925	318
281	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.84	1.664			1.697	1791.1	1694.2		2.1043	7606	295	8479	335	8122	296	8461	8167	309	1.680	8976	336
282	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.85	1.664			1.686	1497.5	1694.2		2.3045	8175	329	8479	335	7934	284	8309	8224	316	1.675	8966	323
371	[98]		$C_5H_6N_8O_6$	-40.9	40.9	1.772	1.748			1.721	569.08	163.2		2.4049	8172	314	8237	312	7815	268	7988	8053	298	1.735	8630	319.8
372	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.780	1.733			1.717	600.04	221.1		2.1783	7614	285	8361	324	8584	325	8651	8302	311	1.725	8725	321.2
373	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.802	1.733			1.707	667.09	221.1		2.2784	7946	307	8518	339	8732	338	8781	8494	328	1.720	8877	337.1

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
374	[98]		$C_5H_8N_{10}O_6$	-42.1	46.0	1.814	1.719			1.733	508.38	279.1		2.0983	7511	286	8622	348	7910	279	8153	8049	304	1.726	8821	321.2
375	[98]		$C_4H_6N_{10}O_6$	-27.6	48.3	1.796	1.768			1.709	784.44	308.5		2.2796	7929	305	9166	399	8990	358	9162	8812	354	1.739	9142	365.7
436	[101]		$C_4H_9N_{11}O_5$	-41.2	52.9	1.822	1.691			1.676	246.19	473.3		2.5993	8861	362	9163	399	8274	306	8549	8712	356	1.683	8897	319
437	[101]		$C_4H_{11}N_{13}O_5$	-42.3	56.7	1.834	1.669			1.691	616.05	589.2		2.2391	7947	313	9281	410	8716	341	8949	8723	355	1.680	9045	349
438	[101]		$C_6H_{13}N_{15}O_5$	-57.6	56.0	1.659	1.641			1.673	249.08	501.9		1.9311	6635	215	8748	360	7260	222	7740	7596	266	1.657	7942	229
439			$C_6H_{15}N_{17}O_5$	-57.2	58.8	1.679	1.627			1.685	656.43	571.8		1.7711	6301	201	8872	372	7723	254	8109	7751	276	1.656	8455	265
440	[101]		$C_6H_{15}N_{17}O_7$	-45.7	54.5	1.687	1.665			1.710	607.27	527.0		1.8511	6517	213	9198	402	8000	273	8300	8004	296	1.688	8159	277
441			$C_8H_9N_{15}O_5$	-62.7	53.2	1.780	1.691			1.711	833.73	906.9		2.2909	7905	301	8466	334	7763	266	8055	8047	300	1.701	8341	264

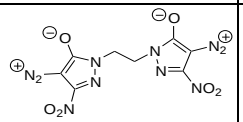
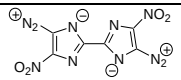
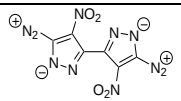
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
442	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.761	1.674			1.721	1103.75	1068.9		2.3311	7945	300	8604	347	7934	276	8233	8179	308	1.698	8642	291
443	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.752	1.674			1.735	804.55	1068.9		2.1309	7405	269	8604	347	7640	255	8006	7914	290	1.704	8373	268
444	[101]		$C_4H_5N_9O_5$	-34.0	48.6	1.815	1.763			1.761	349.86	415.1		2.5663	8748	354	8998	384	8371	312	8610	8682	350	1.762	8716	326
445	[101]		$C_4H_6N_{10}O_5$	-35.0	51.1	1.847	1.746			1.766	519.39	473.0		2.3862	8384	340	9297	411	8677	339	8892	8812	363	1.756	9060	358
446	[101]		$C_4H_5N_9O_6$	-26.2	45.8	1.844	1.785			1.757	402.73	273.8		2.5062	8695	357	9383	419	8747	344	8913	8934	373	1.771	8954	357
447	[101]		$C_5H_7N_{11}O_5$	-45.2	51.2	1.677	1.722			1.746	309.89	429.4		2.2322	7419	258	8964	380	7576	244	7951	7978	294	1.734	7990	247
448	[101]		$C_5H_8N_{12}O_5$	-45.5	53.2	1.670	1.709			1.751	502.18	441.3		2.1522	7202	246	9033	387	7771	256	8120	8032	296	1.730	8187	258
449	[101]		$C_5H_8N_{12}O_6$	-38.5	50.6	1.676	1.730			1.765	468.58	464.9		2.1922	7319	252	9196	402	7932	267	8238	8171	307	1.748	8256	270

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
450	[101]		$C_6H_5N_{11}O_5$	-48.8	49.5	1.720	1.751			1.770	620.12	654.9		2.4121	8008	296	8778	363	7773	261	8084	8161	307	1.760	8197	271
451	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.748	1.737			1.774	719.34	712.8		2.4322	8157	309	8853	370	7962	276	8261	8308	318	1.756	8424	288
452	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.716	1.737			1.784	570.70	712.8		2.3321	7795	284	8853	370	7697	255	8048	8098	303	1.760	8151	263
453	[102]		$C_4H_2N_8O_6$	-18.6	43.4	1.99			1.981	1.849	159.8	313.1	66.11	2.3467	8765	392	8566	343	8790	363	9006	8782	366	1.915	9457	403.9
454	[103]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
455	[103]		$C_6H_8N_{16}O_4$	-52.1	60.9	1.69	1.705			1.724	916.8	1181.2		2.9267	9167	350	9072	390	7682	252	8171	8523	331	1.715	8404	262

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
456	[103]		$C_6H_8N_{16}O_6$	-40.0	56.0	1.61	1.740			1.760	1062.2	803.5		2.8065	8545	302	9369	418	7853	255	8262	8507	325	1.750	8237	260
457	[103]		$C_6H_{18}N_{18}O_4$*	-63.0	63.9	1.75	1.648			1.720	1223.0	945.3		2.0985	7316	264	8793	364	7746	262	8223	8020	297	1.684	9082	313
458	[103]		$C_6H_{14}N_{22}O_4$*	-63.0	63.9	1.64	1.648			1.720	1143.3	1325.7		2.0985	6981	230	8793	364	7344	226	7893	7753	273	1.684	8396	249
475	[106]		$CH_5N_5O_2$	-33.6	58.8	1.67	1.646			1.634	343	192.2		2.4269	7869	280	8814	366	7818	259	8333	8208	302	1.785	9284	331
476	[106]		CH_6N_6O	-54.2	71.2	1.60	1.553			1.594	259	296.3		2.3069	7343	241	6198	122	7838	253	8394	7443	205	1.574	9437	319
477	[106]		CH_5N_5O	-54.3	67.9	1.40	1.568			1.562	207	333.4		2.4870	7646	250	6287	131	7683	240	8207	7456	207	1.574	8013	213

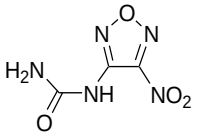
2.1.3 Zwitterionic Compounds

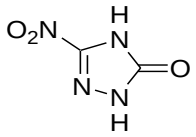
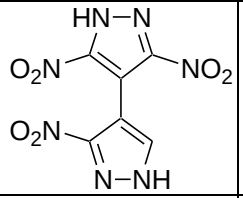
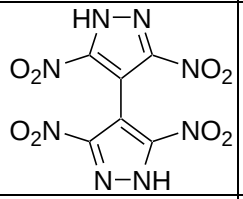
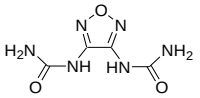
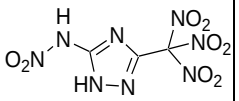
Table 14. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected zwitterionic compounds at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

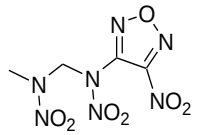
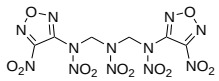
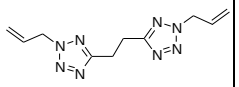
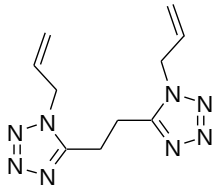
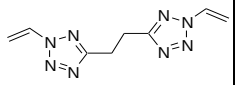
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Kesh avarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Kesh avarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Kesh avarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Kesh avarz	VoD [m/s] keshavarz	$P_{C\text{-}J}$ (kbar) Kesh avarz	VoD [m/s] Rothstein and Petersen	$P_{C\text{-}J}$ (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	$P_{C\text{-}J}$ (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	$P_{C\text{-}J}$ (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	$P_{C\text{-}J}$ from reference [kbar]
185	[70]		$C_8H_4N_{10}O_6$	-57.1	41.7	1.72	1.765		1.926	1.724	441.9	625.9		2.4377	8072	299	8180	307	7352	233	7599	7801	280	1.805	7803	242
195	[72]		$C_8N_{10}O_4$	-46.4	50.7	1.830	1.829		2.112	1.757	819.7	707.1		2.5201	8681	354	8964	380	7927	281	8344	8479	338	1.899	8653	311
196	[72]		$C_8N_{10}O_4$	-46.4	50.7	1.850	1.829		2.112	1.757	987.2	707.1		2.5201	8754	362	8964	380	8189	302	8580	8622	348	1.899	8943	340

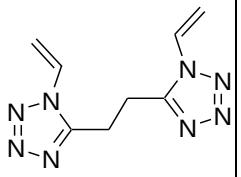
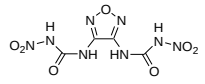
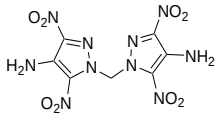
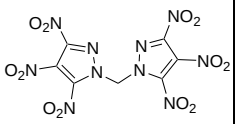
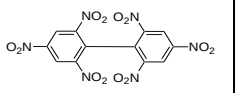
2.1.4 Aromatic Compounds

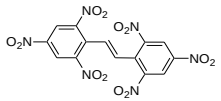
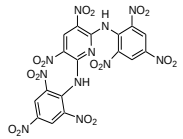
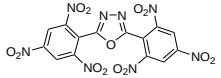
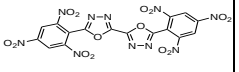
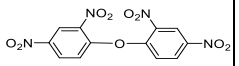
Table 15. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected aromaticcompounds at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

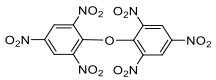
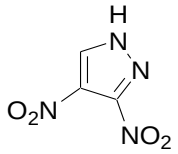
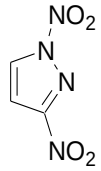
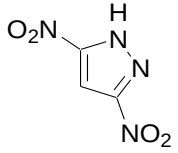
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Kesh avarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Kesh avarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Kesh avarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Kesh avarz	VoD [m/s] keshavarz	$P_{C\text{-}J}$ (kbar) Kesh avarz	VoD [m/s] Rothstein and Petersen	$P_{C\text{-}J}$ (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	$P_{C\text{-}J}$ (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	$P_{C\text{-}J}$ (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	$P_{C\text{-}J}$ from reference [kbar]
4	[25]		$C_3H_3N_5O_4$	-32.4	40.5	1.68			1.862	1.811	63	-134.6	49.68	2.2660	7511	263	8516	339	7751	255	7979	7939	286	1.837	7759	236

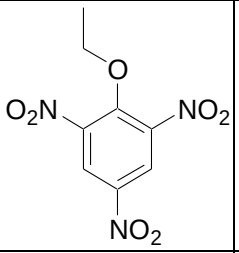
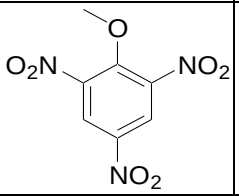
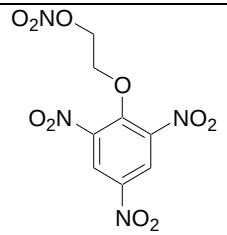
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
5	[23] [26]		$C_2H_2N_4O_3$	-24.6	43.1	1.916			1.900	1.882	-97	-163.7	48.90	2.27799	8327	351	8753	361	8081	300	8396	8389	337	1.891	8543	305
6	[27]		$C_6H_3N_7O_6$	-44.6	36.4	1.855			1.897	1.854	224.9	141.1	277.16	2.31 80	8228	333	8365	324	8019	290	7997	8123	313	1.876	8256	286
7	[27]		$C_6H_2N_8O_8$	-25.5	35.7	1.820			1.940	1.927	227.8	132.6	254.93	2.42 53	8394	336	8908	375	8232	303	8379	8478	338	1.933	8520	311
8	[25]		$C_4H_6N_6O_3$*	-68.8	45.2	1.95			1.742	1.697	-162	-261.1	30.18	1.96 47	7547	311	6885	186	7281	246	7590	7326	248	1.720	8283	245
9	[28]		$C_3H_2N_8O_8$*	5.8	40.3	1.91			2.064	1.957	269	278.6	173.26	2.50 07	8920	384	9750	454	9397	406	9580	9409	414	2.010	9250	369

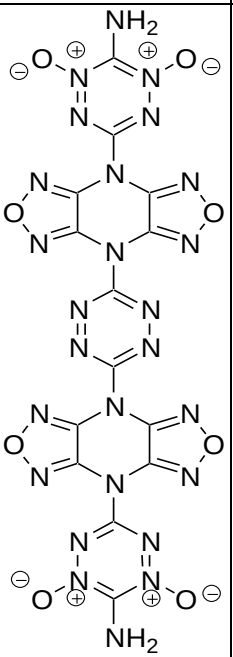
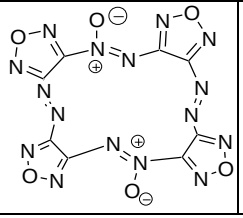
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
10	[29]		$C_4H_5N_7O_7$	-21.3	37.3	1.74			1.921	1.767	265	172.9	83.91	2.5524	8433	322	9184	401	8579	320	8644	8710	348	1.844	8596	322
11	[29]		$C_6H_4N_12O_12$	-7.3	38.5	1.90			1.932	1.884	603	391.8	195.66	2.8731	9912	440	9600	440	9248	392	9364	9531	424	1.908	9334	393
12	[30]		$C_{10}H_{14}N_8$*	-175,4	45.5	1.2				1.255	605	602.3	661.55	1.9663	5408	105	-	-	4514	68	5243	5055	86	-	6148	99
13	[30]		$C_{10}H_{14}N_8$*	-175.4	45.5	1.2				1.255	622	602.3	661.55	1.9663	5408	105	-	-	4535	69	5257	5067	87	-	6167	99
14	[30]		$C_8H_{10}N_8$*	-154.0	51.4	1.4				1.324	635	651.5	702.83	2.1287	6310	164	-	-	5284	105	5843	5812	134	-	7109	148

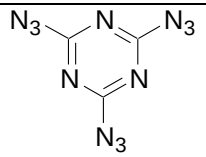
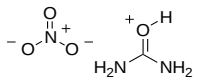
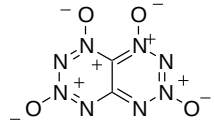
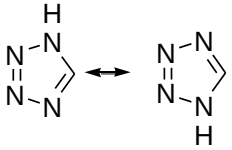
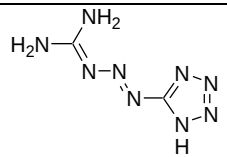
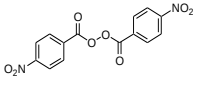
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
15	[30]		$C_8H_{10}N_8$*	-154.0	51.4	1.4				1.324	643	651.5	702.83	2.12187	6310	164	-	-	5296	106	5852	5819	135	-	7132	149
16	[25]		$C_4H_2N_8O_7$	-17.4	34.1	1.87			1.892	1.875	-22	-183.9	116.31	2.17793	7901	317	8908	375	8487	327	8671	8492	340	1.883	8685	322
17	[31]		$C_7H_6N_{10}O_8$	-40.2	39.1	1.802			1.858	1.838	205	224.0	320.11	2.38443	8223	323	8642	350	8016	285	8132	8253	319	1.848	8332	296
18	[31]		$C_7H_2N_{10}O_{12}$	-11.5	33.5	1.934			1.941	1.933	379	186.3	231.01	2.75889	9733	437	9201	402	9029	377	9094	9264	405	1.937	9304	391
19	[32] [26]		$C_{12}H_4N_6O_{12}$	-52.8	19.8	1.694			1.797	1.776	61.1	100.3	48.67	2.28269	7609	270	7314	226	7355	231	7298	7394	242	1.786	7500	244

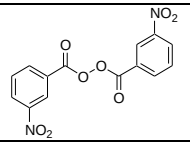
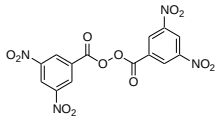
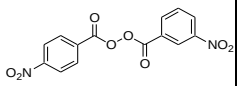
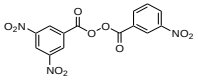
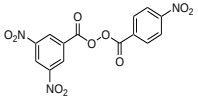
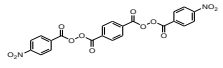
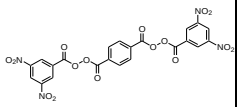
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
20	[32]		$C_{14}H_6N_6O_{12}$	-67.5	18.7	1.74			1.749	1.704	78.2	200.8	86.64	2.13117	7369	266	6830	181	7276	230	7116	7148	226	1.727	7612	243
21	[32]		$C_{17}H_7N_{11}O_{16}$	-55.4	24.8	1.757			1.813	1.776	43.7	208.3	265.80	2.13110	7420	271	7462	240	7421	241	7379	7420	251	1.794	7757	251
22	[32] [33]		$C_{14}H_4N_8O_{13}$	-55.3	22.8	1.77			1.831	1.779	266.55	232.1	114.41	2.37229	8083	309	7350	230	7543	250	7478	7614	263	1.805	7840	279
23	[32]		$C_{16}H_4N_{10}O_{14}$	-57.1	25.0	1.837			1.857	1.781	197.6	409.9	180.15	2.45289	8543	347	7377	232	7547	256	7486	7738	278	1.819	8030	273
24	[34]		$C_{12}H_6N$	-82.2	16.0	1.689			1.606	1.667	-168.1	55.1	-39.09	2.11123	7290	260	6277	130	6827	202	6623	6754	197	1.637	6582	168

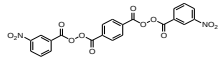
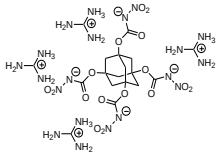
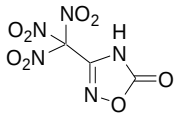
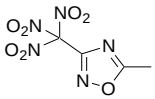
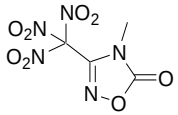
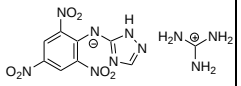
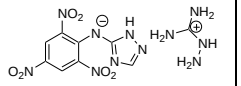
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			C_4O_9																								
25	[34]		$C_{12}H_4N_6O_{13}$	-47.3	19.1	1.70			1.710	1.792	-132.9	-69.0	-83.55	2.3269	8201	329	7449	239	7794	273	7617	7765	280	1.746	7634	250
36	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.79			1.874	1.849	124.3	29.3	117.27	2.3460	8082	313	8824	301	8257	226	8336	8375	327	1.861	8426	306
37	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8459	308
38	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.78			1.874	1.849	73.2	29.3	117.27	2.346	8048	309	8824	367	8113	290	8215	8300	322	1.861	8279	289

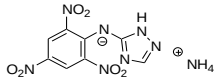
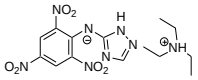
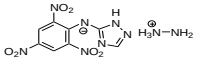
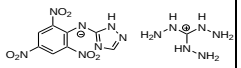
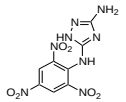
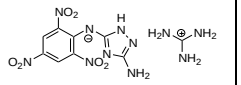
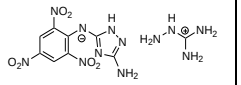
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
39	[26]		$C_8H_7N_3O_7$	-77.8	16.3	1.554			1.590	1.590	-154.5	-222.2	-170.83	2.1544	6845	210	6303	132	6741	184	6598	6622	175	1.590	6545	191
40	[38]		$C_7H_5N_3O_7$	-62.5	17.3	1.7			1.665	1.665	-187.2	-197.6	-150.19	2.2356	7502	266	6800	178	7263	226	7059	7156	223	1.665	7035	204
41	[38]		$C_8H_6N_4O_{10}$	-45.3	17.6	1.723			1.684	1.707	-277.4	-277.3	-313.81	2.3017	7742	282	7290	224	7684	255	7476	7548	254	1.696	7470	237

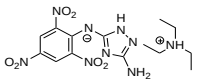
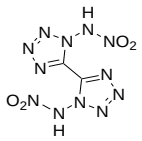
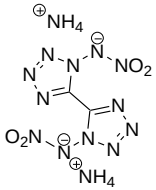
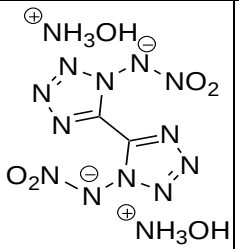
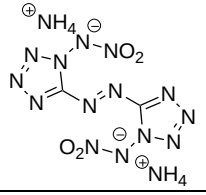
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
42	[38]		$C_{14}H_4N_{26}O_8$	-53.0	54.8	1.903				1.893	2128	2178.2		2.9857	10236	459	8854	370	8184	307	8559	8958	379	-	8700	320
43	[38] [39]		$C_8N_{16}O_6$	-38.4	53.8	1.761				1.786	1702.27	1722.0		2.8875	9368	377	9283	410	8217	296	8696	8891	361	-	9368	377

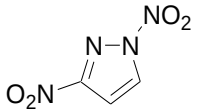
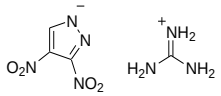
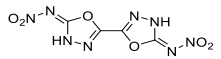
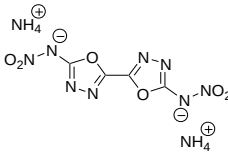
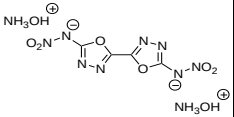
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
47	[24] [40]		C_3N_{12}*	-47.0	82.3	1.73				1.563	914.6/1053	1412.8	1100.11	2.4829	8221	309	-	-	7403	237	8458	8027	273	-	7866	226
50	[43]		$CH_5N_3O_4$	-6.5	17.7	1.655	1.729			1.709	-546.7	-464.3		2.3594	7705	271	8428	330	7218	221	7777	7782	274	1.719	7958	236
57	[46]		$C_2N_8O_4$	0.0	56.0	1.96				2.063	206	401.1		2.7687	9865	451	10734	545	8751	357	9379	9682	451	-	9287	368
58	[38]		CH_2N_4*	-68.5	80.0	1.529				1.582	237.07	303.2	268.59	2.3340	7165	221	-	-	6781	184	7710	7219	202	-	7831	210
63	[38]		$C_2H_5N_9$*	-67.0	81.3	1.64				1.538	382	633.1	423.71	2.1675	7964	326	-	-	7514	259	8526	8001	292	1.768	9729	338
67	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.61			1.566	1.547	-415	-353.4	-370.27	1.8697	6354	194	4197	-64	5752	137	5577	5470	134	1.556	6129	130

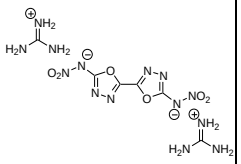
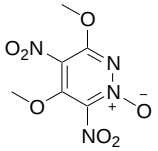
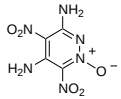
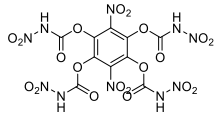
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
68	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.608			1.566	1.547	-406	--353.4	-370.27	1.8697	6354	194	4197	-64	5757	137	5582	5471	134	1.556	6130	130
69	[48]		$C_{14}H_6N_4O_{12}$	-72.0	13.3	1.718			1.701	1.686	-410	-358.0	-414.73	2.0843	7183	252	5893	94	6853	202	6662	6648	183	1.694	7087	200
70	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.67			1.566	1.547	-404	-353.4	-370.27	1.8697	6517	211	4197	-64	5909	148	5657	5570	148	1.556	6395	90
71	[48]		$C_{14}H_7N_3O_{10}$	-91.2	11.1	1.70			1.642	1.622	-405	-361.8	-392.50	1.9770	6863	233	5158	25	6451	178	6219	6173	145	1.632	6796	180
72	[48]		$C_{14}H_7N_3O_{10}$	-91.2	11.1	1.69			1.642	1.622	-405	-361.8	-392.50	1.9770	6835	230	5158	25	6425	176	6204	6156	144	1.632	6757	170
73	[48]		$C_{22}H_{12}N_2O_{12}$	-122.5	5.6	1.46			1.545	1.532	-761	-604.1	-776.91	1.5699	5310	128	3642	-116	5179	104	5189	4830	58	1.538	5315	90
74	[48]		$C_{22}H_{10}N_4O_{16}$	-90.1	9.6	1.51			1.646	1.631	-752	-620.9	-821.37	1.7845	5895	160	4929	4	5897	138	5882	5651	101	1.639	6007	130

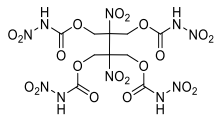
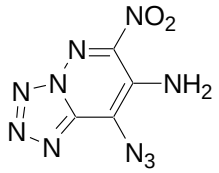
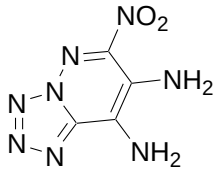
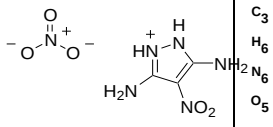
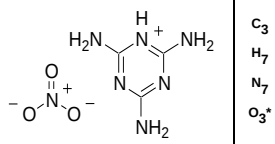
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
75	[48]		$C_{22}H_{12}N_2O_{12}$	-122.5	5.6	1.45			1.545	1.532	-752	-604.1	-776.91	1.5699	5288	126	3642	-116	5980	138	5910	5205	74	1.538	5284	90
76	[49]		$C_{18}H_{44}N_{20}O_{16}$*	-84.4	35.2	1.54	1.551			1.561	-1628	-1313.0		0.8429	3538	68	6836	182	6308	160	6589	5900	137	1.556	6809	159
96	[54]		$C_3H_1N_5O_8$*	10.2	29.8	1.95			1.920	1.972	142	-257.9	-171.82	2.5333	9158	407	8870	372	9619	430	9658	9326	403	1.946	8798	331
97	[54]		$C_4H_3N_5O_7$	-17.2	30.0	1.84			1.834	1.784	43	78.1	-59.90	2.5122	8696	357	8980	382	8686	339	8655	8754	359	1.809	8779	346
98	[54]		$C_4H_3N_5O_8$	-9.6	28.1	1.80			1.829	1.833	133	-23.5	-183.34	2.5522	8655	346	8404	328	8868	349	8835	8690	341	1.831	8804	346
99	[55]		$C_9H_{10}N_{10}O_6$	-76.8	39.5	1.666	1.657			1.652	197.5	311.1		1.9417	6680	218	7482	242	6988	207	7140	7072	222	1.655	7543	211
100	[55]		$C_9H_{11}N_{11}O_6$	-75.8	41.7	1.80	1.648			1.660	303.4	321.5		1.8617	6849	247	7610	254	7499	249	7554	7378	250	1.654	8302	268

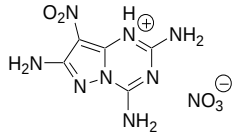
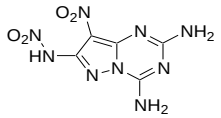
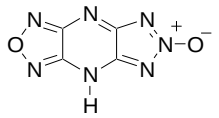
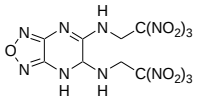
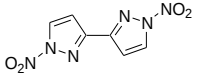
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
101	[55]		$C_8H_8N_8O_6$	-71.8	35.9	1.84	1.682			1.651	245.9	352.3		2.27758	8064	321	7486	242	7729	268	7651	7732	277	1.667	8400	289
102	[55]		$C_{14}H_{20}N_8O_6$*	-129.2	28.3	1.53	1.474			1.384	68.6	204.9		1.68485	5734	154	5337	42	6036	146	6033	5785	114	1.429	6937	158
103	[55]		$C_8H_9N_9O_6$*	-70.9	38.5	1.62	1.672			1.659	386.9	247.5		2.09757	6913	223	7630	256	7233	217	7339	7279	232	1.665	7640	220
104	[55]		$C_9H_{13}N_{13}O_6$	-74.1	45.6	1.59	1.634			1.673	512.4	342.3		1.70117	5911	170	7837	275	7086	206	7316	7038	217	1.653	7597	208
105	[55]		$C_8H_6N_8O_6$	-67.1	36.1	1.85			1.989	1.746	147.4	299.0	325.48	2.08228	7579	296	7635	256	7540	256	7554	7577	269	1.868	8178	278
106	[55]		$C_9H_{11}N_{11}O_6$	-75.8	41.7	1.59	1.648			1.667	154.8	321.5		1.86117	6281	188	7610	254	6734	186	6998	6906	209	1.657	7209	185
107	[55]		$C_9H_{12}N_{12}O_6$*	-74.9	43.7	1.66	1.641			1.674	260.6	319.7		1.78117	6277	197	7728	265	7051	210	7264	7080	224	1.657	7657	214

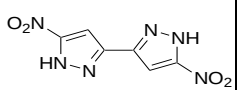
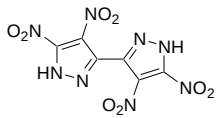
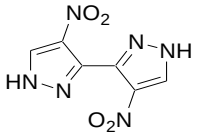
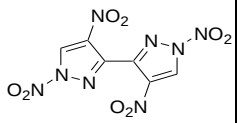
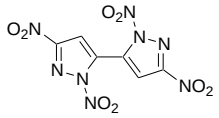
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
108	[55]		$C_{14}H_{21}N_9O_6$*	-126.4	30.6	1.50	1.473			1.402	25.9	167.7		1.7086	5704	150	5530	60	5949	140	6030	5803	117	1.438	6802	151
109	[56]		$C_2H_2N_{12}O_4$	-6.2	65.1	1.930			2.134	1.921	932.1	810.1	661.23	2.6561	9428	418	10855	557	9715	436	10282	10070	470	2.027	10142	456
110	[56]		$C_2H_8N_{14}O_4$	-21.9	67.1	1.795	1.724			1.705	647.7	997.8		2.8821	9497	391	10312	506	8173	296	8900	9220	398	1.715	9519	361
111	[56]		$C_2H_8N_{14}O_6$	-9.9	60.5	1.842	1.766			1.751	789.8	620.1		2.7619	9372	395	10556	529	9399	397	9778	9776	440	1.758	9885	418
112	[56]		$C_2H_8N_{10}$	-20.0	70.0	1.753	1.736			1.675	941.9	1263.4		2.9295	9442	379	10504	524	8778	336	9361	9521	413	1.706	9472	358

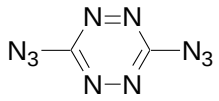
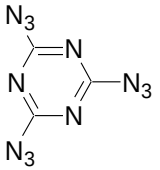
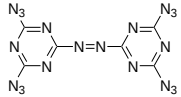
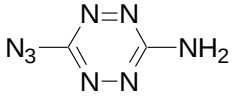
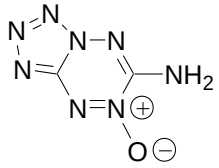
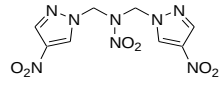
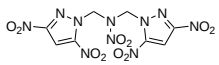
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
			$C_6H_4N_6O_4$																								
120	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8426	306
122	[37]		$C_4H_7N_7O_4$	**-55.3**	**45.2**	**1.63**	**1.669**			**1.680**	**40.4**	**43.9**		**2.1249**	**7013**	**230**	**8283**	**317**	**7290**	**222**	**7560**	**7536**	**256**	**1.675**	**8369**	**276**
123	[58]		$C_4H_2N_8O_6$	**-18.6**	**43.4**	**1.98**			**1.981**	**1.849**	**278.6**	**190.5**	**66.11**	**2.3467**	**8731**	**387**	**8566**	**343**	**8941**	**375**	**9130**	**8842**	**368**	**1.915**	**9388**	**391**
124	[58]		$C_4H_8N_{10}O_6$	**-32.9**	**47.9**	**1.95**	**1.728**			**1.693**	**-71.8**	**408.8**		**2.7193**	**9685**	**438**	**8653**	**351**	**8467**	**333**	**8698**	**8876**	**374**	**1.711**	**9225**	**349**
125	[58]		$C_4H_8N_1$	**-19.7**	**43.2**	**1.92**	**1.770**			**1.725**	**70.2**	**31.1**		**2.5991**	**9231**	**404**	**8968**	**381**	**8953**	**369**	**9042**	**9048**	**385**	**1.748**	**9186**	**341**

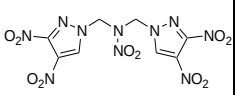
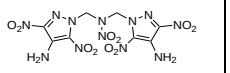
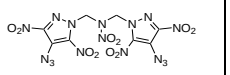
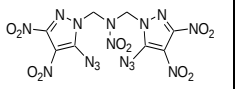
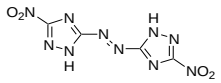
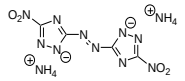
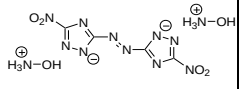
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
			O_{10}																								
126	[58]		$C_4H_{12}N_{14}O_6$	-51.0	52.1	1.79	1.670			1.686	-59.9	437.4		2.0511	7315	271	8386	326	7489	248	7931	7780	282	1.678	8027	248
127	[59]		$C_6H_6N_4O_7$	-52.0	22.8	1.59			1.764	1.659	-114	-172.8		2.3297	7362	241	7213	217	7314	220	7240	7282	226	1.712	7227	208
128	[59]		$C_4H_4N_6O_5$	-37.0	38.9	1.84			2.116	1.841	110	21.2		2.2521	8001	318	8725	358	8266	307	8335	8332	328	1.978	8486	302
129	[60]		$C_{10}H_{14}N_6O_{12}$	-5.5	24.0	1.71			1.852	1.924	-1275	-1125.2	-854.39	2.3027	7701	278	8023	293	7629	250	7806	7790	274	1.888	7702	-

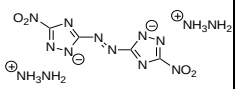
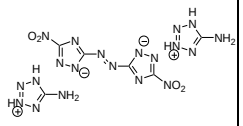
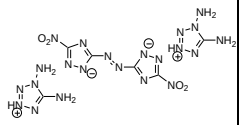
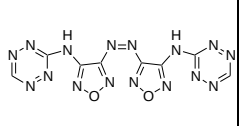
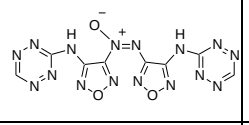
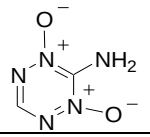
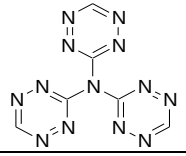
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
130	[60]		$C_{10}H_{16}N_6O_{12}$	-16.2	23.7	1.89			1.713	1.764	-1441.5	-1355.9	-1051.07	2.27 39	8225	340	7846	276	8293	314	8190	8138	310	1.739	8298	-
131	[61]		$C_4H_2N_{10}O_2$	-50.4	63.1	1.82		1.390	2.107	1.749	811.2	998.6	726.07	2.4808	8540	344	9212	403	8079	291	8608	8610	346	1.570	8746	315
132	[61]		$C_4H_4N_8O_2$	-65.3	57.1	1.80			1.948	1.766	446.5	472.9	462.06	2.3261	8064	314	8179	307	7630	258	8025	7974	293	1.857	8434	277
133	[62]		$C_3H_6N_6O_5$	-31.1	40.8	1.76	1.732			1.852	-63.4	-212.2		2.1187	7398	270	8818	367	8174	292	8290	8170	310	1.792	8420	298
134	[62]		$C_3H_7N_7O_3$*	-55.0	51.8	1.65	1.639			1.684	-173.7	-149.1		2.0588	6916	228	8386	326	6763	192	7406	7368	249	1.661	7455	193

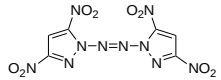
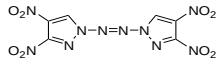
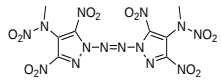
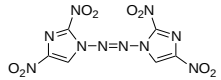
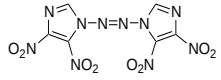
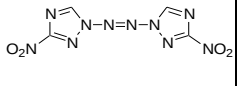
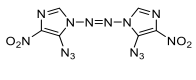
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
135	[62]		$C_5H_7N_9O_5$	-49.8	46.1	1.82	1.817			1.816	60.0	5.8		2.1848	7758	300	8634	350	7776	270	8011	8045	307	1.817	8391	282
136	[62]		$C_5H_5N_9O_4$	-53.3	49.4	1.89				1.825	314	331.0	439.87	2.2521	8165	336	8582	345	8004	292	8242	8248	324	-	8713	319
137	[63]		$C_4HN_7O_2$	-58.1	54.7	1.85				1.870	597	475.7	521.64	2.4133	8467	346	8748	360	7913	282	8314	8360	329	-	8532	324
138	[63]		$C_8H_8N_{12}O_{13}$	-23.3	35.0	1.80			1.830	1.806	110	138.0	162.52	2.3038	8005	310	8907	375	8430	315	8483	8456	333	1.818	8409	321
139	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.751	413.9	321.2	340.57	2.4109	8320	330	7503	244	7718	265	7728	7817	280	1.794	8301	288

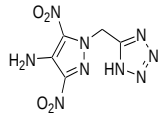
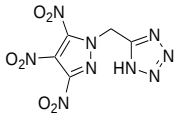
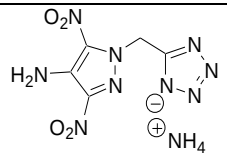
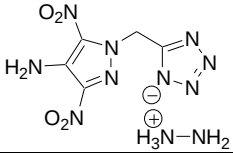
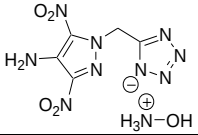
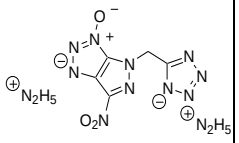
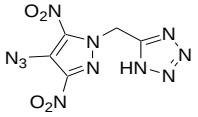
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
140	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.759	229.1	149.5	299.39	2.2107	7794	301	7503	244	7425	245	7481	7551	263	1.797	8026	262
141	[64]		$C_6H_2N_8O_8H_2O$	-25.5	35.7	1.84			1.940	1.927	42.7	132.6	254.93	2.4253	8464	344	8908	375	8079	293	8251	8426	337	1.933	8556	323
142	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.83			1.836	1.759	221	149.5	299.39	2.2107	7858	308	7503	244	7469	250	7512	7586	267	1.797	8120	269
143	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.85			1.940	1.920	407.1	304.4	296.11	2.6255	9037	378	8908	375	8523	327	8631	8775	360	1.980	8869	345
144	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.855			1.940	1.920	444.1	304.4	296.11	2.6255	9057	380	8908	375	8578	332	8680	8806	362	1.980	8926	354

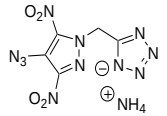
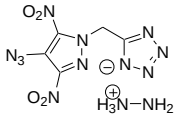
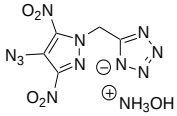
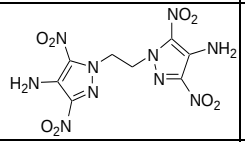
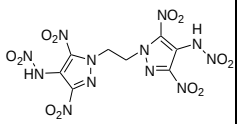
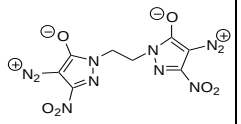
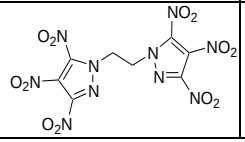
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
145	[40]		C_2N_{10}	-39.0	85.4	1.62		1.280		1.566	1130	1206.1	867.21	2.5095	7887	271	-	-	8023	267	8987	8299	269	1.423	8306	265
146	[40]		C_3N_{12}*	-47.0	82.3	1.74				1.563	1053	1412.8	1100.11	2.4829	8257	313	-	-	7699	258	8680	8212	286	-	8308	269
147	[40]		C_6N_{20}*	-54.5	79.5	1.67				1.481	2171	2022.5	1747.35	2.5971	8282	301	-	-	7691	250.5	8582	8185	275.8	-	8306	264
148	[40]		$C_2H_2N_8$*	-57.9	81.1	1.68				1.554	686.2	882.8	603.20	2.3548	7728	274	-	-	7664	250	8502	7965	262	-	8449	270
149	[40]		$C_2H_2N_8O$	-41.5	72.7	1.874				1.839	631.4	713.5		2.5414	8885	374	9359	417	8550	332	9206	9000	374	-	9326	364
150	[65]		$C_8H_8N_8O_6$	-71.8	35.9	1.69			1.745	1.663	377.2	367.6	362.89	2.3759	7814	280	7486	242	7429	236	7445	7544	253	1.704	7867	251
151	[65]		$C_8H_6N_{10}O_{10}$	-35.8	34.8	1.789	1.78		1.847	1.801	388	350.8	311.60	2.5905	8680	343	8583	345	8234	299	8273	8442	329	1.824	8258	309

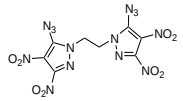
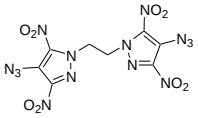
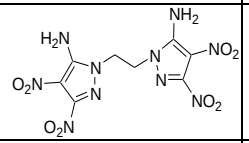
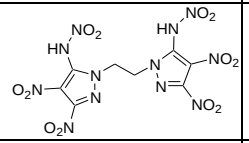
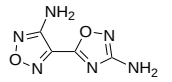
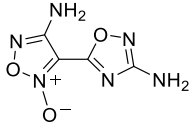
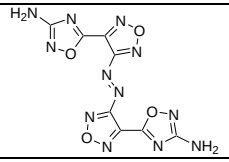
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
152	[65]		$C_8H_6N_{10}O_{10}$	-35.8	34.8	1.78			1.847	1.801	398	350.8	311.60	2.5905	8680	343	8583	345	8242	299	8280	8446	329	1.824	8265	310
153	[65]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.86			1.839	1.820	486.4	371.6	356.24	2.4305	8549	352	8753	361	8555	331	8575	8608	348	1.829	8639	347
154	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1108.2	1220.5	884.26	2.7399	9265	386	9339	415	8619	333	8880	9026	378	1.716	8717	351
155	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1118.7	1220.5	884.26	2.7399	9265	386	9339	415	8626	333	8886	9029	378	1.716	8724	352
156	[66]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.88			2.062	1.795	571.7	580.1	453.47	2.4607	8702	365	9602	440	8421	323	8845	8892	376	1.928	8952	347
157	[66]		$C_4H_8N_{12}O_4$	-44.4	58.3	1.76	1.693			1.614	426.5	675.8		2.6867	8851	349	9200	402	7984	279	8405	8610	343	1.654	8665	295
158	[66]		$C_4H_{10}N_{12}O_6$	-30.0	52.5	1.82	1.739			1.664	279.5	521.7		2.5665	8767	356	9558	436	8402	315	8715	8860	369	1.702	8857	330

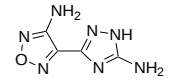
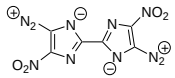
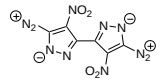
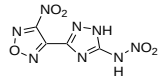
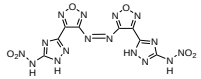
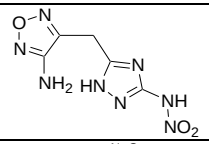
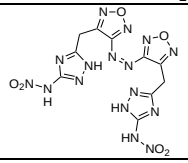
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
159	[66]		$C_4H_{10}N_{10}O_4$ *	-45.3	61.6	1.80	1.671			1.634	661.9	601.5		2.3265	8065	314	9287	410	8359	310	8749	8615	345	1.652	9114	329
160	[66]		$C_6H_8N_{20}O_4$	-45.3	66.0	1.71	1.724			1.736	1239.0	1151.1		2.4209	7995	293	9525	433	7862	266	8448	8458	331	1.730	8226	258
161	[66]		$C_6H_{10}N_2{}_2O_4$ *	-45.8	67.8	1.79	1.706			1.744	967.7	1267.0		2.4611	8381	329	9565	436	7826	271	8494	8566	345	1.725	8702	294
162	[67]		$C_8H_4N_{16}O_2$	-71.9	62.9	1.67				1.609	1654.3	1283.9	895.13	2.5129	8078	290	8373	325	7457	236	7996	7976	284	-	8075	251
163	[67]		$C_8H_4N_{16}O_3$	-64.5	60.2	1.75				1.657	1517.6	1313.8		2.5529	8471	326	8644	350	7752	262	8223	8272	313	-	8401	283
164	[67]		$C_2H_3N_5O_2$	-43.4	54.3	1.77				1.786	237.2	270.2		2.3601	8050	307	8799	365	8145	291	8466	8365	321	-	8640	302
165	[67]		$C_6H_3N_{13}$ *	-84.0	70.8	1.73				1.517	1386.2	1405.1	1003.43	2.5670	8433	320	-	-	7415	238	8053	7967	279	-	8322	264

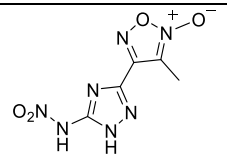
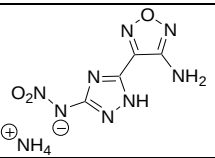
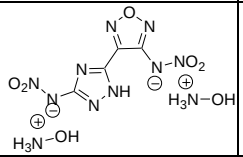
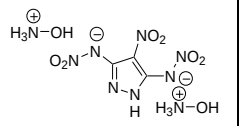
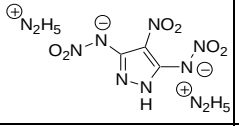
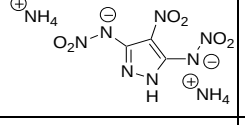
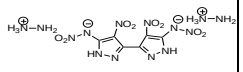
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
166	[68]**4**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.81			1.983	1.852	687.6	677.3	343.33	2.6729	9010	368	9202	403	8559	326	8773	8886	366	1.917	8298	348
167	[68]**5**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.82			1.983	1.852	687.6	677.3	343.33	2.6729	9048	372	9202	403	8592	330	8801	8911	368	1.917	8964	351
168	[68]**6**		$C_8H_6N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	789.2	849.9	392.65	2.7653	9212	377	9200	402	8654	332	8790	8964	370	1.864	8834	346
169	[68]**7**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.85			1.983	1.852	591.8	493.3	343.33	2.6729	9165	385	9202	403	8600	333	8799	8942	374	1.917	8979	356
170	[68]**8**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.83			1.983	1.852	612.4	493.3	343.33	2.6729	9087	376	9202	403	8554	328	8762	8901	369	1.917	8932	351
171	[68]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.80			2.062	1.770	719.1	859.2	494.65	2.6609	8939	362	9602	440	8373	311	8799	8928	371	1.916	8825	335
172	[68]		$C_4H_2N_{14}O_4$	-43.1	58.7	1.77		1.470		1.712	1169.1	1379.9	960.45	2.6077	8687	342	9365	418	8056	285	8557	8666	348	1.591	8702	314

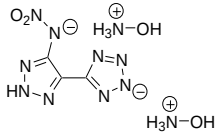
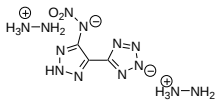
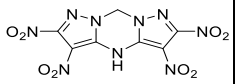
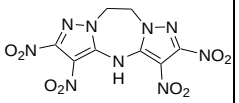
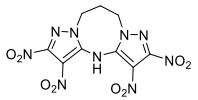
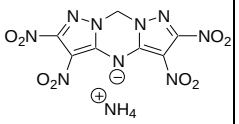
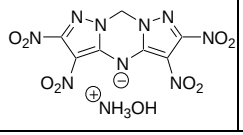
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
173	[69]		$C_5H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	347.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
174	[69]		$C_5H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	376.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345
175	[69]		$C_5H_6N_{10}O_6$	-58.8	51.5	1.68	1.669			1.659	422.3	535.3		2.4652	7998	288	8433	331	7614	247	7900	7986	289	1.664	8153	251
176	[69]		$C_5H_7N_{11}O_6$*	-58.5	53.6	1.65	1.812			1.668	573.8	450.6		2.2851	7458	255	8521	339	7696	249	7992	7917	281	1.740	8264	256
177	[69]		$C_5H_6N_{10}O_7$	-50.0	48.6	1.75	1.695			1.685	470.2	298.9		2.4051	8096	306	8696	355	8118	287	8293	8301	316	1.690	8592	298
178	[69]		$C_6H_{14}N_{14}O_3$*	-77.5	59.4	1.69	1.604			1.658	883.2	642.1		2.3519	7755	277	8342	322	7914	267	8269	8070	289	1.631	8778	289
179	[69]		$C_5H_3N_{11}O_4$	-42.7	54.8	1.812		1.473	2.031	1.741	782.1	873.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321

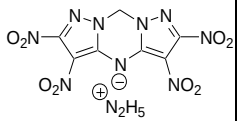
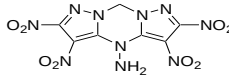
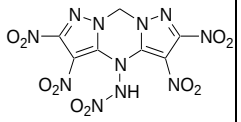
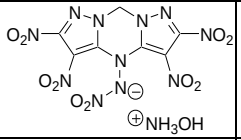
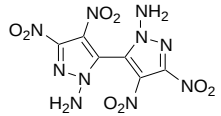
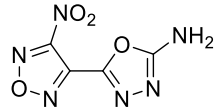
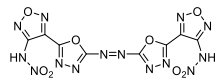
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
180	[69]		$C_5H_6N_{12}O_4$	-48.3	56.4	1.64	1.725			1.657	793.0	965.9		2.6199	8223	292	9028	386	7740	251	8150	8285	310	1.691	8167	258
181	[69]		$C_5H_7N_{13}O_4$	-48.5	58.1	1.72	1.712			1.665	937.1	928.7		2.4398	8077	299	9081	391	8137	286	8503	8450	325	1.688	8640	297
182	[69]		$C_5H_6N_{12}O_5$	-40.7	53.5	1.76	1.746			1.659	834.3	824.6		2.5598	8526	331	9210	403	8354	305	8652	8686	346	1.703	8747	322
183	[70]		$C_8H_8N_{10}O_8$	-51.6	37.6	1.77			1.799	1.768	218.9	291.4	299.47	2.3031	7903	299	8238	313	7815	268	7871	7957	293	1.784	8189	279
184	[70]		$C_8H_6N_{12}O_{12}$	-24.2	36.4	1.84			1.877	1.862	380.6	305.2	317.31	2.5177	8711	357	9000	384	8588	331	8650	8737	357	1.869	8753	343
185	[70]		$C_8H_4N_{10}O_6$	-57.1	41.7	1.72	1.765		1.926	1.724	441.9	625.9		2.4377	8072	299	8180	307	7352	233	7599	7801	280	1.805	7803	242
186	[70]		$C_8H_4N_{10}O_{12}$	-22.2	32.4	1.84			1.887	1.863	306.9	253.7	210.37	2.6777	9139	382	8852	370	8551	329	8588	8782	360	1.875	8759	341

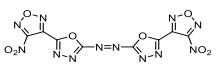
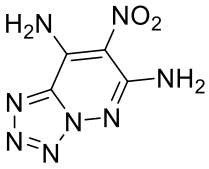
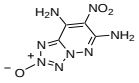
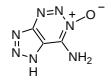
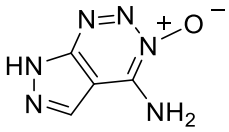
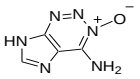
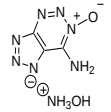
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187	[70]		$C_8H_4N_{14}O_8$	-37.7	46.2	1.78		1.543	1.983	1.750	1233.9	1140.3	827.49	2.6125	8737	347	8991	383	8398	311	8651	8694	347	1.647	8797	334
188	[70]		$C_8H_4N_{14}O_8$	-37.7	46.2	1.76		1.543	1.983	1.750	1013.9	1140.3	827.49	2.6125	8661	338	8991	383	8170	292	8444	8566	338	1.647	8558	310
189	[70]		$C_8H_8N_{10}O_8$	-51.6	37.6	1.75			1.799	1.768	237.9	291.4	299.47	2.3031	7836	292	8238	313	7772	263	7839	7921	289	1.784	8127	273
190	[70]		$C_8H_6N_{12}O_{12}$	-24.2	36.4	1.83			1.877	1.862	368.1	305.2	317.31	2.5177	8675	353	9000	384	8546	327	8615	8709	355	1.869	8710	337
191	[71]		$C_4H_4N_6O_2$	-76.1	50.0	1.680				1.716	186.6	246.9	155.73	2.2787	7542	265	7458	240	6820	198	7227	7262	234	-	7459	204
192	[71]		$C_4H_4N_6O_3$	-60.8	45.6	1.788				1.819	185.9	184.97		2.3187	8004	308	8085	298	7576	254	7787	7863	287	-	8193	268
193	[71]		$C_8H_4N_{12}O_2$	-67.4	50.6	1.652				1.716	705.5	868.1	334.43	2.4981	7976	282	8192	308	6964	204	7405	7634	265	-	7547	216

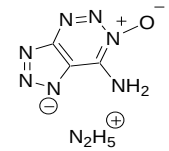
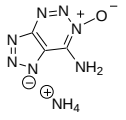
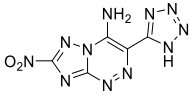
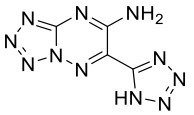
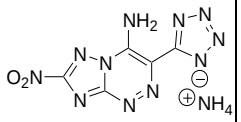
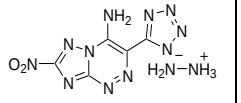
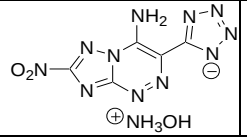
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
194	[71]		$C_4H_5N_7O^*$	-91.0	58.7	1.716				1.685	290.8	279.8	325.54	2.1587	7362	261	5873	92	6698	193	7229	6790	182	-	7798	215
195	[72]		$C_6N_{10}O_4$	-46.4	50.7	1.830	1.829		2.112	1.757	819.7	707.1		2.5201	8681	354	8964	380	7927	281	8344	8479	338	1.899	8653	311
196	[72]		$C_6N_{10}O_4$	-46.4	50.7	1.850	1.829		2.112	1.757	987.2	707.1		2.5201	8754	362	8964	380	8189	302	8580	8622	348	1.899	8943	340
197	[73]		$C_4H_2N_8O_5$	-26.4	46.3	1.851			1.996	1.881	524.66	322.8	289.91	2.4533	8578	352	9389	420	8648	337	8902	8879	370	1.938	9025	360
198	[73]		$C_8H_4N_{16}O_6$	-45.7	53.3	1.873			2.033	1.799	1274.4	1121.9	691.89	2.4727	8709	364	9045	388	8392	320	8719	8716	357	1.916	8973	349
199	[73]		$C_5H_6N_8O_3$	-70.8	49.5	1.695			1.832	1.692	449.0	364.6	313.82	2.1848	7361	258	7834	275	7456	238	7699	7588	257	1.762	8079	249
200	[73]		$C_{10}H_8N_{16}O_6$	-64.2	50.0	1.704			1.924	1.692	1206.2	1072.8	650.61	2.3103	7700	277	8314	320	7607	248	7890	7878	282	1.808	8125	260

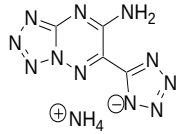
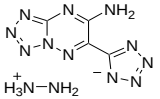
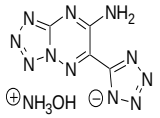
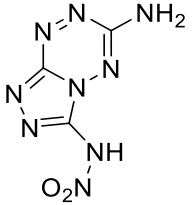
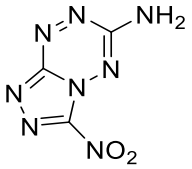
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
201	[73]		$C_5H_5N_7O_4$	-59.9	43.2	1.741			1.932	1.750	443.8	321.3		2.3048	7810	289	8098	300	7873	269	7986	7942	286	1.841	8236	282
202	[73]		$C_5H_9N_9O_3$*	-59.3	55.0	1.680	1.658			1.679	328.2	481.4		2.3790	7787	277	8386	326	7494	239	7872	7885	281	1.668	8130	246
203	[73]		$C_5H_{11}N_{11}O_7$	-27.2	47.7	1.850	1.736			1.723	327.3	190.7		2.4791	8032	290	9478	428	8286	292	8505	8575	337	1.730	9135	366
204	[74]		$C_3H_9N_9O_8$	-13.4	42.1	1.90	1.757			1.757	95.7	-165.2		2.3991	8603	364	9719	451	9368	402	9370	9265	406	1.757	9394	400
205	[74]		$C_3H_{11}N_{11}O_6$	-29.6	51.8	1.87	1.684			1.721	300.2	138.2		2.1591	7847	314	9570	437	9061	373	9198	8919	375	1.703	9581	385
206	[74]		$C_3H_9N_9O_7$	-27.0	47.2	1.80	1.710			1.707	-22.7	260.0		2.5193	8569	341	9451	426	8479	319	8666	8791	362	1.708	8842	326
207	[74]		$C_6H_{12}N_{14}O_8$	-39.2	48.0	1.85	1.707			1.757	498.0	297.5		2.1311	7709	303	9139	397	8654	338	8765	8567	346	1.732	9118	352

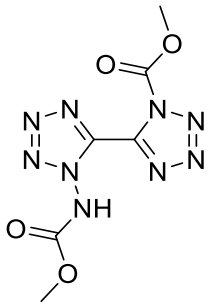
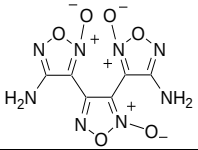
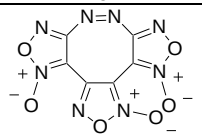
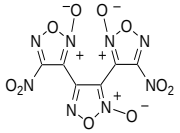
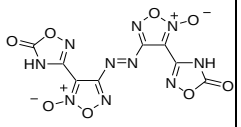
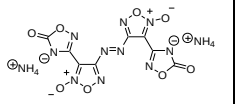
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208	[74]		$C_3H_9N_{11}O_4$*	-39.5	58.5	1.82	1.672			1.644	434.3	532.5		2.4331	8414	337	9342	416	8591	330	8900	8812	361	1.658	9282	348
209	[74]		$C_3H_{11}N_{13}O_2$*	-58.2	69.7	1.71	1.588			1.608	663.4	651.9		2.1931	7429	264	8285	317	8006	276	8524	7986	270	1.598	9022	301
210	[75]		$C_7H_3N_9O_8$	-35.2	37.0	1.895			2.014	1.932	375.3	207.9	445.16	2.4715	8785	373	8664	352	8400	323	8475	8562	349	1.973	8792	343
211	[75]		$C_8H_5N_9O_8$	-47.3	35.5	1.80			1.949	1.847	301.9	275.3	418.36	2.3903	8232	323	8240	313	7908	277	7964	8086	304	1.898	8257	292
212	[75]		$C_9H_7N_9O_8$	-58.5	34.1	1.760			1.890	1.775	299.1	250.7	391.56	2.3091	7885	297	7847	276	7671	258	7680	7771	277	1.833	8051	272
213	[75]		$C_7H_6N_{10}O_8$	-40.2	39.1	1.82	1.775			1.836	347.5	319.1		2.5845	8815	359	8642	350	8218	302	8296	8493	337	1.805	8518	317
214	[75]		$C_7H_6N_{10}O_9$	-34.2	37.4	1.86	1.791			1.853	392.9	177.8		2.5244	8802	367	8759	361	8549	331	8572	8670	353	1.822	8893	359

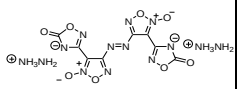
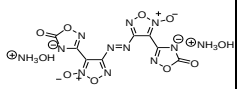
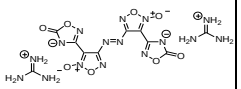
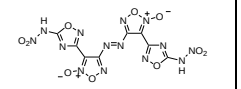
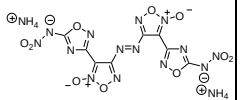
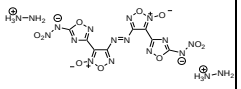
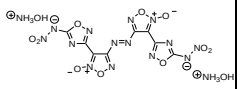
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
215	[75]		$C_7H_7N_{11}O_8$	-40.7	41.3	1.83	1.762			1.791	496.4	377.0		2.40 44	8373	337	8732	359	8384	315	8460	8487	337	1.776	8690	332
216	[75]		$C_7H_4N_{10}O_8$	-35.9	39.3	1.790			2.005	1.929	342.0	376.8	432.55	2.49 16	8460	333	8758	361	8035	285	8201	8364	326	1.967	8356	296
217	[75]		$C_7H_3N_{11}O_{10}$	-21.9	38.4	1.937			2.037	1.972	521.6	399.0	441.47	2.59 89	9295	412	9127	396	8890	366	8989	9075	391	2.005	9226	388
218	[75]		$C_7H_6N_{12}O_{11}$	-22.1	38.7	1.87	1.821			1.897	573.1	533.9		2.65 18	9185	391	9183	401	8894	359	8960	9056	384	1.859	9034	371
219	[76]		$C_8H_4N_{10}O_8$	-27.9	40.7	1.760 *1.811@173 K*			1.922	1.921	457.8	432.5	340.75	2.46 55	8285	318	9080	391	8263	299	8449	8519	336	1.922	8504	310
220	[77]		$C_4H_2N_6O_4$	-40.4	42.4	1.747			1.950	1.823	219.4	236.0	111.18	2.46 60	8240	313	8781	363	7724	260	7991	8184	312	1.976	8102	269
221	[77]		$C_8H_2N_{14}O_8$	-34.1	-34.1	1.767			2.033	1.826	786.1	1026.3	352.27	2.71 27	8945	355	8660	352	7940	277	8295	8460	328	1.929	8409	293

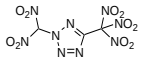
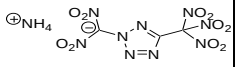
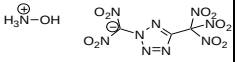
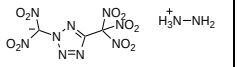
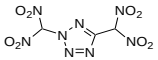
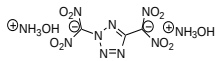
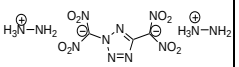
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
222	[77]		$C_8N_{12}O_8$	-32.6	42.9	1.825			2.056	1.824	854.2	790.8	245.33	2.8727	9598	404	8954	379	8170	299	8475	8683	346	1.940	8800	351
223	[78]		$C_4H_4N_8O_2$	-65.3	57.1	1.869			1.948	1.766	398	564.9	462.06	2.3261	8297	340	8179	307	7731	271	8115	8080	306	1.857	8899	303
224	[78]		$C_4H_4N_8O_3$	-52.8	52.8	1.886			2.033	1.856	470	502.8		2.3661	8464	353	8669	353	8281	313	8530	8486	340	1.945	9021	348
225	[79]		$C_3H_3N_7O$*	-67.9	64.0	1.815				1.789	537.4	535.8		2.3400	8151	321	7641	257	7868	276	8330	7998	285	-	8792	303
226	[79]		$C_4H_4N_6O$*	-94.7	55.2	1.772				1.721	418.9	361.3		2.2387	7744	291	5901	95	7155	225	7467	7067	204	-	8271	256
227	[79]		$C_4H_4N_6O$*	-94.7	55.2	1.743				1.721	368.3	361.3		2.2387	7650	281	5901	95	6943	210	7309	6951	195	-	8008	233
228	[79]		$C_4H_8N_8O_2$*	-60.2	60.2	1.772	1.643			1.677	282.7	394.8		2.3929	8141	313	8155	305	7686	260	8136	8030	293	-	8607	280

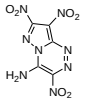
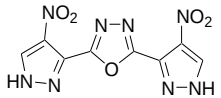
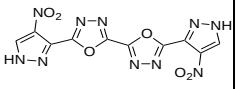
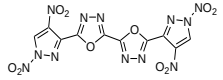
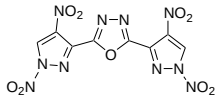
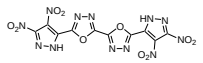
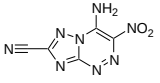
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
229	[79]		$C_3H_7N_9O$*	-73.5	68.1	1.800	1.584			1.515	625.0	689.2		2.2729	7726	285	6237	126	7594	251	8128	7421	221	1.550	9385	336
230	[79]		$C_3H_7N_8O$*	-75.2	65.9	1.740	1.595			1.635	474.1	520.3		2.4530	8182	309	6295	131	7622	252	8093	7548	231	1.615	8744	282
231	[80]		$C_6H_3N_{11}O_2$	-61.0	61.8	1.873			2.067	1.776	721.6	887.2	728.72	2.4734	8711	364	8709	357	7792	276	8300	8378	332	1.921	9010	328
232	[80]		$C_4H_3N_{11}$*	-74.1	75.1	1.795				1.714	866.5	1070.2	804.38	2.4674	8415	332	-	-	7446	246	8195	8019	289	-	8367	256
233	[80]		$C_6H_6N_{12}O_2$*	-66.1	63.1	1.811	1.674			1.676	625.3	982.6		2.5864	8786	356	8292	318	7565	255	8091	8184	310	1.675	8793	286
234	[80]		$C_6H_7N_{13}O_2$*	-65.4	64.8	1.855	1.662			1.685	781.2	897.9		2.4063	8466	347	8309	319	7932	284	8403	8278	317	1.673	8950	329
235	[80]		$C_6H_6N_{12}O_3$	-56.7	59.6	1.859	1.701			1.678	677.4	746.2		2.5263	8804	367	8761	361	8064	294	8457	8522	341	1.690	9220	331

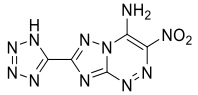
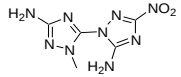
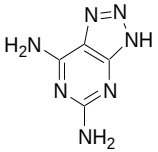
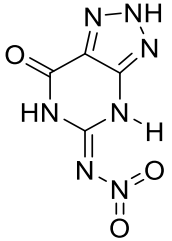
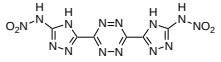
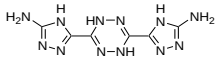
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
236	[80]		$C_4H_6N_{12}$	-79.2	75.7	1.725	1.615			1.608	739.5	1073.6		2.5804	8448	320	-	-	7117	219	7909	7825	270	1.611	8313	249
237	[80]		$C_4H_7N_{13}$*	-77.6	76.8	1.742	1.605			1.622	882.1	988.9		2.4003	8055	302	-	-	7432	240	8161	7883	271	1.614	8679	276
238	[80]		$C_4H_6N_{12}O$	-67.2	70.6	1.751	1.651			1.614	785.7	7576		2.5203	8392	322	7414	236	7576	253	8242	6221	270	1.633	8618	280
239	[81]		$C_3H_3N_9O_2$	-44.6	64.0	1.79			2.050	1.804	634.3	625.7	546.64	2.4274	8293	324	9288	411	8175	295	8694	8612	343	1.927	8763	313
240	[81]		$C_3H_2N_8O_2$	-43.9	61.5	1.83			1.769	1.800	656.8	592.6	493.17	2.5074	8647	352	9344	416	8374	314	8846	8803	361	1.784	8953	339

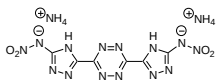
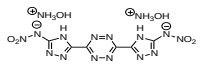
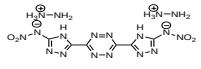
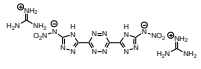
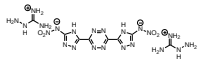
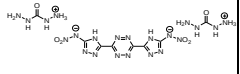
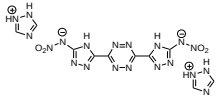
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
241	[82]		$C_9H_7N_9O_4$	-68.4	46.8	1.64				1.590	325.5	301.3	80.14	2.3711	7630	262	7063	203	7122	212	7409	7306	226	-	7403	201
242	[83]		$C_6H_4N_8O_6$	-45.0	39.4	1.787				1.953	492.8	199.0		2.4847	8432	331	8485	336	8145	293	8248	8328	320	-	8480	310
243	[83]		$C_6N_8O_6$	-34.3	40.0	1.895				2.017	894.9	501.5		2.6993	9412	409	8830	368	8716	347	8936	8974	375	2.076	9417	396
244	[83]		$C_6N_8O_{10}$	-9.3	32.6	1.914				2.062	579.2	161.4		2.8593	9932	444	9213	404	9106	381	9228	9370	410	-	9503	408
245	[84]		$C_8H_5N_{10}O$	-39.3	38.3	1.90				1.925	633.44	313.9		2.6179	9207	399	7922	283	8368	321	8485	8496	334	-	8891	347
246	[84]		$C_9H_{11}N_{12}O_8$	-48.0	42.0	1.65	1.743			1.762	534.88	560.1		2.8439	8798	323	7946	285	7647	246	7647	8058	285	1.752	8234	273

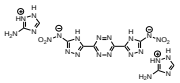
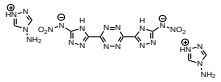
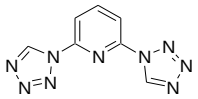
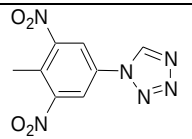
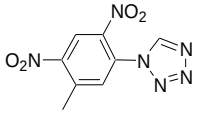
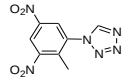
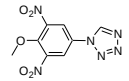
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
247	[84]		$C_8H_{10}N_{14}O_8$	-48.3	45.6	1.71	1.723			1.768	887.15	295.6		2.4837	8151	301	8700	356	8099	282	8255	8301	313	1.746	8453	293
248	[84]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.72	1.773			1.794	666.58	-7.8		2.7237	8787	337	8206	310	8234	293	8326	8388	313	1.784	8445	307
249	[84]		$C_{11}H_{12}N_{16}O_8$	-59.5	46.3	1.65	1.695			1.744	504.79	398.5		2.1757	7196	242	7892	280	6871	198	7293	7313	240	1.720	8150	267
250	[84]		$C_8H_2N_{14}O_{10}$	-24.7	43.2	1.92			2.112	2.013	1241.13	840.9		2.7927	9771	436	9027	386	9028	375	9235	9265	399	2.062	9505	413
251	[84]		$C_8H_8N_{16}O_{10}$	-32.8	45.9	1.66	1.782			1.778	1060.87	905.9		3.0187	9261	348	8997	383	8134	279	8386	8694	337	1.780	8357	289
252	[84]		$C_8H_{10}N_{18}O_{10}$	-34.0	48.6	1.74	1.763			1.782	1187.52	669.3		2.6585	8701	336	9115	394	8451	310	8677	8736	347	1.772	8860	319
253	[84]		$C_8H_8N_{16}O_{12}$	-24.6	43.1	1.72	1.805			1.804	1405.62	528.2		2.8985	9224	360	9137	396	8717	328	8895	8993	361	1.804	8846	343

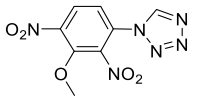
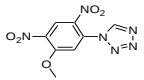
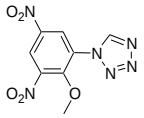
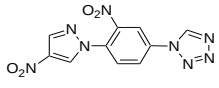
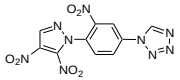
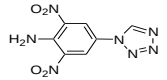
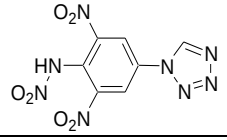
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
254	[85]		$C_3HN_9O_{10}$*	17.3	39.0	1.88			1.997	1.950	284.3	334.6	157.13	2.8082	9651	420	9252	407	9432	405	9684	9505	411	1.974	8511	312
255	[85]		$C_3H_4N_{10}O_{10}$*	9.4	41.2	1.79	1.884			1.896	238.1	334.9		2.8211	9317	380	9678	447	9109	367	9332	9359	398	1.890	8617	316
256	[85]		$C_3H_4N_{10}O_{11}$	13.5	39.3	1.92	1.896			1.912	277.8	193.6		2.7610	9683	431	9450	426	9729	436	9873	9762	434	1.896	9054	363
257	[85]		$C_3H_5N_{11}O_{10}$	6.8	43.4	1.81	1.866			1.904	383.5	297.8		2.6410	8926	363	9881	466	8889	352	9166	9216	394	1.895	8920	346
258	[85]		$C_3H_2N_8O_8$	5.8	40.3	1.92	1.964			1.881	247.5	312.4	171.36	2.7009	9515	421	9750	454	9393	406	9587	9561	427	1.922	9123	377
259	[85]		$C_3H_8N_{10}O_{10}$	0.0	40.7	1.91	1.814			1.820	103.2	-64.7		2.6065	9214	401	10057	482	9558	420	9604	9608	434	1.817	9590	424
260	[85]		$C_3H_{10}N_{12}O_{10}$	-14.0	49.1	1.83	1.751			1.787	355.5	238.6		2.3665	8272	331	9998	477	9167	376	9329	9192	395	1.769	9230	379

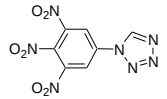
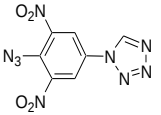
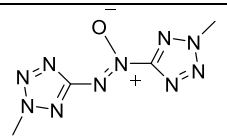
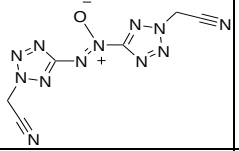
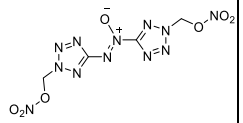
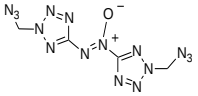
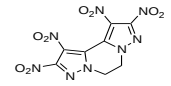
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
261	[86]		$C_5H_2N_8O_6$	-29.6	41.5	1.90			1.971	1.897	344	410.7	341.85	2.5194	8935	383	9062	389	8479	329	8657	8783	367	1.934	8737	326
262	[87]		$C_8H_4N_8O_5$	-71.2	38.4	1.800			1.884	1.768	521.57	327.3	365.13	2.2967	7987	309	7264	222	7508	250	7594	7588	260	1.826	8099	271.4
263	[87]		$C_{10}H_4N_{10}O_6$	-71.1	38.9	1.809			1.914	1.773	639.79	505.1	430.87	2.3827	8243	325	7098	206	7431	246	7553	7581	259	1.843	8054	265.3
264	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.831			1.972	1.903	762.11	660.0	427.59	2.7975	9423	395	8102	300	7499	252	7771	8199	316	1.976	8855	342.3
265	[87]		$C_8H_2N_{10}O_9$	-33.5	36.7	1.844			1.959	1.897	882.44	482.2	361.85	2.7115	9245	388	8434	331	8552	329	8676	8727	349	1.920	8766	333.3
266	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.870			1.972	1.885	602,65	488.2	386.41	2.5973	9037	382	8102	300	7614	263	7859	8153	315	1.929	8710	327.5
267	[88]		$C_5H_2N_8O_2$	-69.9	54.4	1.753			2.056	1.729	533.3	532.2	688.02	2.3594	7990	301	8200	309	7186	225	7644	7607	263	1.893	7763	230.5

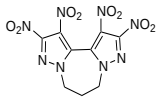
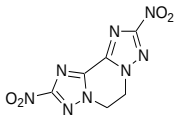
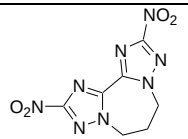
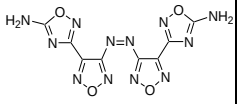
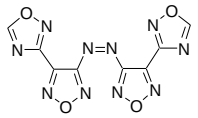
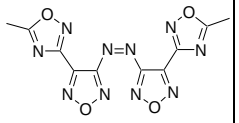
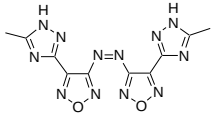
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
268	[88]		$C_5H_3N_{11}O_2$	-61.0	61.8	1.819			2.067	1.776	723.4	926.9	728.72	2.4734	8517	342	8709	357	7635	260	8169	8258	320	1.921	8312	270.4
269	[89]		$C_5H_7N_9O_2$*	-81.7	56.0	1.83			1.831	1.657	369	530.6	482.19	2.2650	8003	316	7265	222	7374	244	7715	7589	261	1.744	7520	254
270	[90]		$C_4H_5N_7$*	-111.2	64.9	1.67			1.873	1.638	361	433.8	463.70	2.1187	7121	241	-	-	6163	161	6875	6720	201	1.756	7426	181.6
271	[90]		$C_4H_3N_7O_3$	-52.8	49.7	1.94			1.949	1.856	223	194.9	252.54	2.2459	8311	354	8228	312	7952	293	8235	8182	320	1.903	8845	325.4
272	[91]		$C_6H_4N_{14}O_4$	-47.6	58.3	1.88			2.044	1.781	1336.0	1220.8	828.13	2.3467	8390	347	9171	400	8660	341	9027	8812	363	1.913	9100	317
273	[91]		$C_6H_8N_{12}$	-103.1	67.7	1.84				1.659	1124.3	842.7	873.59	1.7781	6734	246	-	-	7645	263	8043	7474	254	-	8943	364

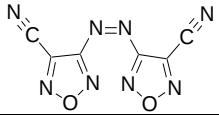
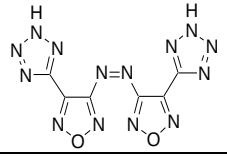
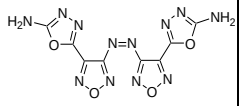
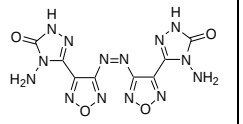
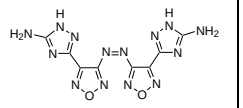
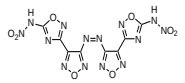
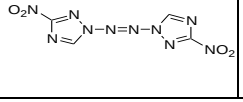
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
274	[91]		$C_6H_{10}N_{16}O_4$	1.657	60.5	1.79	1.674			1.640	996.0	1190.7		2.5727	8671	345	8897	374	8145	293	8512	8556	337	1.657	8898	311
275	[91]		$C_6H_{10}N_{16}O_6$	-43.8	55.7	1.81	1.711			1.645	1468.2	816.1		2.4525	8430	336	9244	406	8908	353	9142	8931	365	1.678	9267	378
276	[91]		$C_6H_{12}N_{18}O_4$	-56.0	63.0	1.78	1.657			1.654	1361.5	1214.6		2.2125	7702	290	8989	383	8412	312	8765	8467	328	1.655	9214	337
277	[91]		$C_8H_{14}N_{20}O_4$	-66.9	61.7	1.84	1.636			1.644	947.3	1127.3		1.9045	7072	265	8564	343	7848	277	8260	7936	295	1.640	8978	309
278	[91]		$C_8H_{16}N_{20}O_4$	-66.1	63.6	1.79	1.624			1.656	1360	1243.2		1.7445	6517	227	8660	352	8032	285	8420	7907	288	1.640	8963	318
279	[91]		$C_8H_{16}N_{20}O_6$	-55.8	59.7	1.82	1.657			1.678	1312.9	1198.4		1.8245	6805	247	9033	387	8350	311	8654	8210	315	1.667	8978	334
280	[91]		$C_{10}H_{10}N_{20}O_4$	-70.8	59.1	1.85	1.677			1.676	1581.4	1578.3		2.2643	8067	323	8375	325	8002	289	8330	8194	312	1.676	8925	318

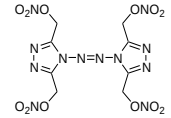
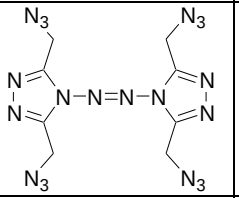
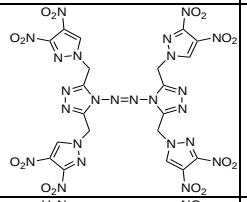
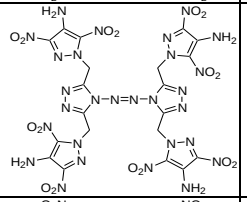
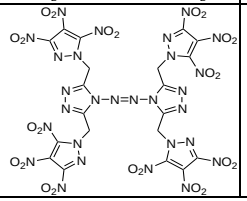
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
281	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.84	1.664			1.697	1791.1	1694.2		2.1043	7606	295	8479	335	8122	296	8461	8167	309	1.680	8976	336
282	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.85	1.664			1.686	1497.5	1694.2		2.3045	8175	329	8479	335	7934	284	8309	8224	316	1.675	8966	323
283	[92]		$C_7H_5N_9$*	-122.7	58.6	1.59				1.518	882.5	941.3	753.40	2.3910	7504	247	-	-	6188	157	6707	6800	202	1.724	7120	172
284	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.66				1.577	403.9	421.8	313.83	2.2557	7421	255	6492	150	6833	197	6865	6903	201	1.661	7432	204
285	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.63			1.745	1.577	408.7	421.8	313.83	2.2557	7322	245	6492	150	6754	190	6813	6845	195	1.661	7305	195
286	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.62			1.745	1.577	392.9	421.8	313.83	2.2557	7290	242	6492	150	6706	187	6777	6816	193	1.661	7243	191
287	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	243.4	313.83	2.2957	7651	274	6688	168	7097	216	7075	7128	219	1.677	7247	199

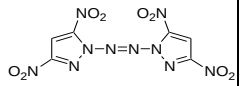
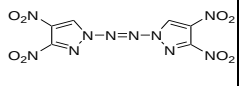
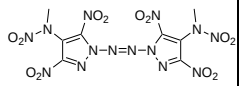
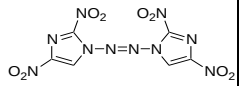
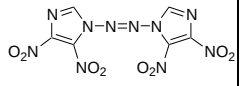
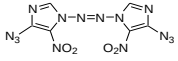
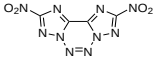
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
288	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.62			1.746	1.608	287.4	243.4	181.61	2.2957	7384	247	6688	168	6849	195	6900	6955	203	1.677	7268	197
289	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.65			1.746	1.608	322.4	243.4	181.61	2.2957	7484	257	6688	168	6977	205	6995	7036	210	1.677	7432	210
290	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.66			1.746	1.608	293.7	243.4	181.61	2.2957	7517	260	6688	168	7006	207	7015	7056	212	1.677	7442	211
291	[92]		$C_{10}H_6N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	584.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
292	[92]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
293	[92]		$C_7H_5N_7O_4$	-79.6	39.0	1.69			1.825	1.675	369.0	427.6	368.26	2.2569	7522	265	7279	223	7051	212	7192	7261	233	1.750	7899	241
294	[92]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	449.9	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.818	8202	280

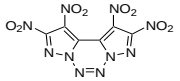
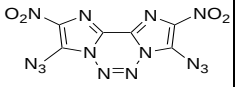
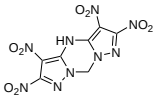
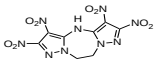
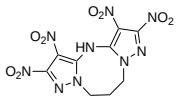
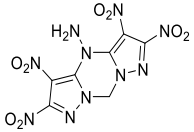
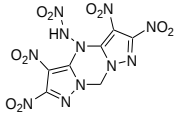
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
295	[92]		$C_7H_3N_7O_6$	-54.1	34.9	1.83			1.890	1.750	470.5	361.3	323.71	2.4442	8479	342	7988	289	7989	286	8022	8120	306	1.820	8298	284
296	[92]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	858.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.665	7734	262
297	[93]		$C_5H_8N_{10}O^*$	-76.1	66.7	1.57				1.534	519.8	1006.6		2.5265	7743	256	6736	172	6729	184	7423	7158	204	-	7465	190
298	[93]		$C_6H_5N_{12}O$	-79.9	64.6	1.58				1.554	869.0	1288.7		2.4331	7566	249	7446	239	6635	180	7318	7241	223	-	7262	187
299	[93]		$C_4H_4N_{12}O_7$	-14.5	50.6	1.68			1.937	1.756	345.4	804.3		2.8211	8866	333	10007	478	8035	275	8481	8847	362	1.847	8066	258
300	[93]		$C_4H_4N_{16}O^*$	-49.3	76.7	1.59		1.400		1.597	682.3	1799.7		2.6759	8162	279	9067	390	6631	180	7745	7901	283	1.498	7228	177
301	[94]		$C_8H_4N_8O_8$	-47.0	32.9	1.762			1.866	1.847	326.6	328.3	331.19	2.4703	8304	320	8123	302	7808	267	7864	8025	296	1.857	8135	281

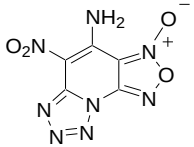
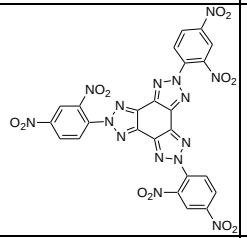
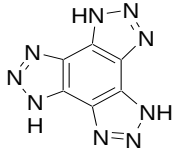
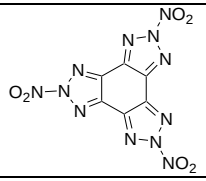
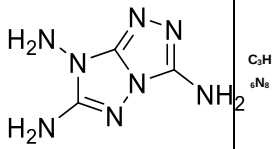
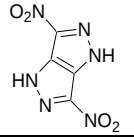
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
302	[94]		$C_9H_6N_8O_8$	-58.7	31.6	1.677			1.803	1.772	280.1	211.7	304.39	2.3891	7801	277	7719	264	7392	232	7441	7588	258	1.788	7700	241
303	[94]		$C_8H_4N_8O_4$	-63.5	44.4	1.733			1.905	1.763	345.3	454.7	489.34	2.4583	8170	307	8059	296	7309	232	7567	7776	278	1.834	7838	241
304	[94]		$C_7H_6N_8O_4$	-78.1	42.1	1.634			1.820	1.677	307.2	430.1	462.54	2.3771	7624	261	7439	238	6832	195	7078	7243	231	1.748	7336	197
305	[95]		$C_8H_4N_{12}O_4$	-67.4	50.6	1.85				1.716	711.2	828.5	334.43	2.4981	8695	359	7919	283	7541	256	7855	8002	299	-	8445	283
306	[95]		$C_8H_2N_{10}O_4$	-68.8	46.4	1.68				1.684	832.9	807.7	289.79	2.6581	8469	312	7700	262	7135	216	7496	7700	263	-	7685	227
307	[95]		$C_{10}H_6N_{10}O_4$	-92.1	42.4	1.75				1.567	696.5	835.2	225.57	2.4957	8326	318	6730	172	6971	212	7136	7291	234	-	7781	226
308	[95]		$C_{10}H_8N_{12}O_2$	-107.2	51.2	1.81				1.540	864.3	1019.7	565.19	2.2557	7912	307	6358	137	6891	211	7137	7074	218	-	8482	264

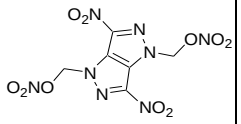
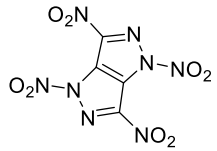
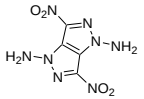
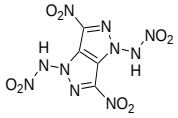
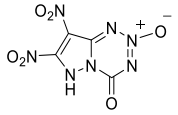
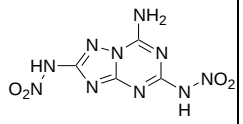
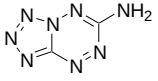
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
309	[95]		$C_6N_8O_2$	-74.0	51.8	1.62				1.613	933.9	810.9	654.87	2.3927	7612	258	8220	311	6980	202	7509	7580	257	-	7640	218
310	[95]		$C_6H_2N_{14}O_2$	-58.2	64.9	1.69				1.715	1224.3	1301.6	736.27	2.6207	8415	311	9053	389	7486	239	8118	8268	313	-	8477	280
311	[95]		$C_8H_4N_{12}O_4$	-67.4	50.6	1.83				1.716	684.1	828.5	266.14	2.4981	8622	350	7645	257	7451	249	7785	7876	285	-	8323	273
312	[95]		$C_8H_6N_{14}O_4$	-66.3	54.1	1.68				1.790	769.9	793.8	427.17	2.3381	7687	272	7951	286	7140	217	7590	7592	258	-	7774	224
313	[95]		$C_8H_6N_{14}O_2$*	-82.4	59.4	1.79				1.685	920.8	262	674.05	2.2581	7853	300	7693	262	7180	228	7645	7593	263	-	8458	262
314	[95]		$C_8H_2N_{14}O_8$	-34.1	46.4	2.12			2.033	1.826	1038.0	964.9	352.27	2.7127	10336	520	8875	372	9274	418	9424	9477	437	1.929	10114	461
315	[95]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.80			2.062	1.770	718	803.7	494.65	2.6609	8939	362	9602	440	8371	311	8797	8927	371	1.916	8830	335

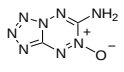
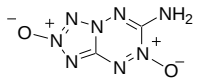
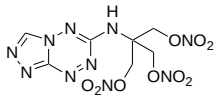
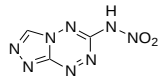
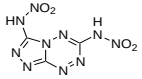
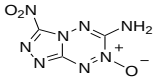
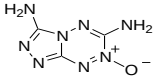
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
316	[95]		$C_8H_8N_{12}O_{12}$	-27.6	36.2	1.70			1.833	1.687	246	271.8	-161.25	2.7107	8676	327	9005	384	8091	280	8200	8493	330	1.760	8190	285
317	[95]		$C_8H_8N_{20}$*	-83.3	72.9	1.53		1.360		1.462	1940	2170.5	1601.87	2.4203	7361	231	-	-	6962	194	7657	7327	212	1.411	7690	209
318	[95]		$C_{20}H_{12}N_{24}O_{16}$	-56.8	39.8	1.74			1.889	1.742	1382	1331.9	1089.55	2.8391	9158	361	8130	303	7652	254	7799	8185	306	1.816	8070	269
319	[95]		$C_{20}H_{16}N_{28}O_{26}$	-56.6	43.4	1.75			1.879	1.763	1483	1563.8	1178.83	2.5191	8385	322	8337	322	7731	261	7904	8089	302	1.821	8190	273
320	[95]		$C_{20}H_8N_{28}O_{24}$	-31.2	38.3	1.82			1.944	1.843	1359	1298.3	1000.63	3.2683	10623	460	8785	364	8283	306	8435	9032	377	1.893	8640	323

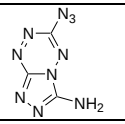
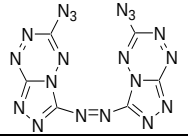
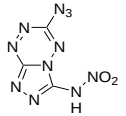
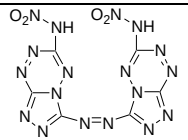
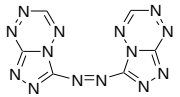
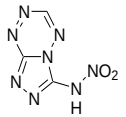
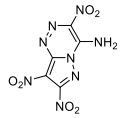
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
321	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.81			1.983	1.852	687.6	677.3	343.33	2.6729	9010	368	9202	403	8559	326	8773	8886	366	1.917	8928	348
322	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.82			1.983	1.852	687.6	677.3	343.33	2.6729	9048	372	9202	403	8592	330	8801	8911	368	1.917	8964	351
323	[95]		$C_8H_6N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	744.1	849.9	392.65	2.7653	9212	377	9200	402	8624	330	8763	8950	370	1.864	8834	346
324	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.85			1.983	1.852	591.8	493.3	343.33	2.6729	9165	385	9202	403	8600	333	8799	8942	374	1.917	8979	356
325	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.83			1.983	1.852	612.4	493.3	343.33	2.6729	9087	376	9202	403	8554	328	8762	8901	369	1.917	8932	251
326	[95]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.77		1.470	2.107	1.712	1289.7	1379.9	960.45	2.6077	8687	342	9365	418	8175	293	8663	8722	351	1.591	8702	314
327	[96]		$C_4N_{10}O_4$	-25.4	55.6	1.901 (β), 1.91 (α)			2.146	1.949	787	861.4	647.15	2.8147	9755	431	9863	464	8674	345	9153	9361	413	2.047	9400	380

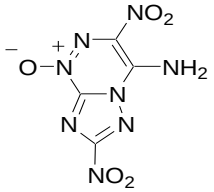
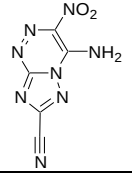
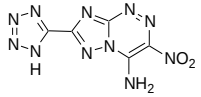
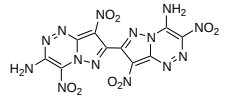
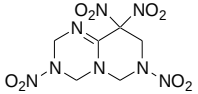
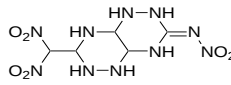
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
328	[96]		$C_6N_{10}O_8$	-18.8	41.2	1.89			2.044	1.994	758.5	735.0	495.83	2.8267	9743	427	9327	414	8797	353	9050	9229	398	2.019	9631	440
329	[96]		$C_6N_{14}O_4$	-38.5	59.0	1.89		1.470	2.171	1.835	1318.8	1437.6	1112.95	2.7615	9564	417	9561	436	8499	330	9014	9160	394	1.652	9256	367
330	[96]		$C_7H_3N_9O_8$	-35.2	37.0	1.90			2.014	1.932	375.3	207.9	445.16	2.4715	8803	375	8664	352	8415	324	8488	8592	350	1,973	8792	343
331	[96]		$C_8H_5N_9O_8$	-47.3	35.5	1.80			1.949	1.847	301.9	275.3	418.36	2.3903	8232	323	8240	313	7908	277	7964	8086	304	1.898	8257	292
332	[96]		$C_9H_7N_9O_8$	-58.5	34.1	1.76			1.890	1.775	299.1	250.7	391.56	2.3091	7885	297	7847	276	7671	258	7680	7771	277	1.833	8051	272
333	[96]		$C_7H_4N_{10}O_8$	-35.9	39.3	1.79			2.005	1.929	341.9	399.0	432.55	2.4916	8460	333	8758	361	8035	285	8201	8364	326	1.967	8356	296
334	[96]		$C_7H_3N_{11}O_{10}$	-21.9	38.4	1.94			2.037	1.972	521.5	521.7	441.47	2.5989	9306	413	9127	396	8900	367	8997	9082	392	2.005	9226	388

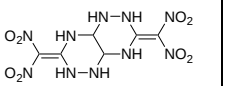
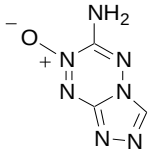
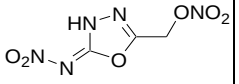
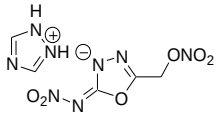
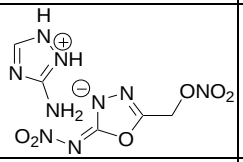
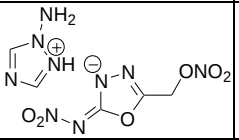
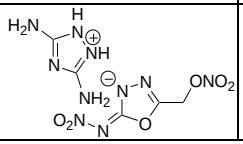
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335	[96]		$C_5H_2N_8O_4$	-47.0	47.1	1.92			1.939	1.944	908	534.7		2.5860	9194	402	8753	361	8838	360	9037	8956	374	2.030	8838	360
336	[96]		$C_{24}H_9N_{15}O_{12}$	-92.6	30.0	1.69			1.834	1.719	695.0	1257.3	1006.99	2.3272	7695	274	6535	154	6493	180	6593	6829	203	1.776	7032	199
337	[96]		$C_6H_3N_9$	-107.4	62.7	1.77				1.811	463.0	915.2	774.94	2.3185	7943	302	-	-	5902	153	6725	6857	228	-	7160	194
338	[96]		$C_6N_{12}O_6$	-28.6	50.0	1.82				2.033	710.0	1109.3	814.41	2.9407	9757	411	9443	425	8093	292	8540	8958	376	2.119	8376	312
339	[96]		$C_3H_6N_8$	-93.4	72.7	1.73				1.774	470.5	453.8	501.24	2.2128	7542	273	-	-	7087	217	7751	7460	245	-	8580	259
340	[96]		$C_4H_2N_6O_4$	-40.4	42.4	1.85			1.950	1.942	322.6	140.9	295.21	2.3659	8340	339	8781	363	8230	305	8403	8438	336	1.946	8250	274

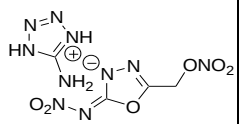
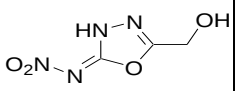
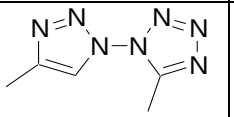
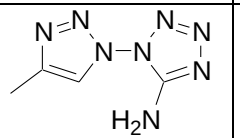
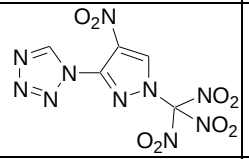
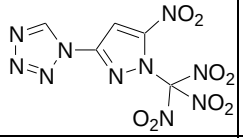
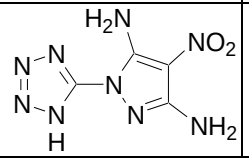
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
341	[96]		$C_6H_4N_8O_{10}$	-18.4	32.2	1.82			1.863	1.856	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.860	8674	331
342	[96]		$C_4N_8O_8$	0.0	38.9	1.95			2.127	2.085	550.9	295.8	291.93	2.7807	9859	448	9834	462	9443	414	9663	9700	441	2.106	9460	409
343	[96]		$C_4H_4N_8O_4$	-42.1	49.1	1.84			1.921	1.930	467.0	256.9	381.03	2.4061	8413	341	8957	380	8413	318	8626	8602	346	1.925	8864	339
344	[96]		$C_4H_2N_{10}O_8$	-5.0	44.0	1.93			2.000	2.042	595.2	270.7	398.87	2.6207	9329	412	9933	471	9363	405	9594	9555	429	2.021	9507	418
345	[96]		$C_4HN_7O_6$	-16.5	40.3	2.02			2.095	2.024	131.8	224.5		2.5733	9533	445	9137	397	8855	372	9035	9140	405	2.059	8515	332
346	[96]		$C_4H_4N_{10}O_4$	-37.5	54.7	1.84			1.980	1.856	544.9	500.7	524.45	2.3534	8272	333	9345	416	8368	315	8721	8676	355	1.918	8787	342
347	[96]		$C_3H_3N_8O$	-57.9	81.1	1.68				1.714	686.2	867.5	568.83	2.5014	8086	292	-	-	7664	250	8502	8084	271	-	8449	270

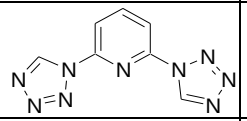
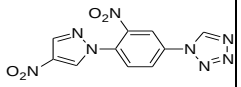
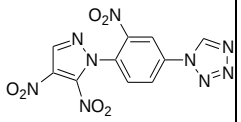
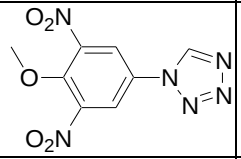
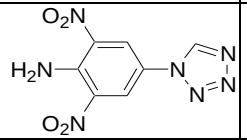
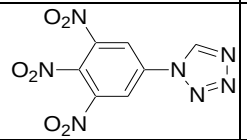
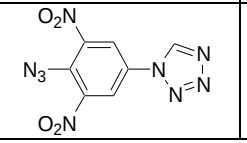
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
348	[96]		$C_2H_2N_8O$	-41.5	72.7	1.87				1.839	631.4	805.5		2.5414	8885	374	9359	417	8551	332	9207	9000	374	-	9326	364
349	[96]		$C_2H_2N_8O_2$	-28.2	65.9	1.93				1.955	576.0	743.4		2.5814	9219	406	10037	480	8979	372	9517	9438	419	-	9600	413
350	[96]		$C_7H_8N_{10}O_9$	-38.3	37.2	1.79			1.799	1.700	246.0	251.2	14.83	2.5172	8527	337	8366	325	8261	302	8285	8360	321	1.749	9290	294
351	[96]		$C_3H_2N_8O_2$	-43.9	61.5	1.76			2.076	1.782	675.1	567.8	524.32	2.5074	8392	324	9344	416	8182	293	8678	8649	344	1.929	8621	304
352	[96]		$C_3H_4N_{10}O_4$	-19.8	57.9	1.91			2.078	1.890	740.9	709.3	555.56	2.5347	9014	390	10102	487	9086	379	9517	9430	419	1.984	9301	383
353	[96]		$C_3H_2N_8O_3$	-32.3	56.6	1.86			2.327	1.898	744.0	475.1		2.5474	8865	370	9622	442	8905	359	9282	9168	390	2.112	9384	391
354	[96]		$C_3H_4N_8O$	-66.6	66.7	1.82				1.794	492.0	541.4		2.3601	8221	326	7457	240	7761	269	8298	7934	278	1.937	9008	347

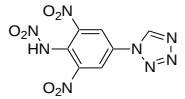
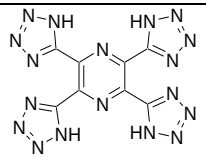
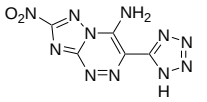
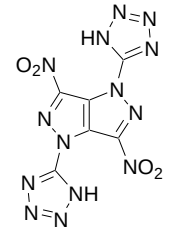
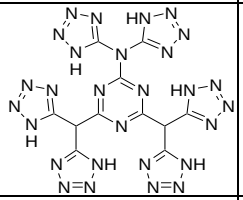
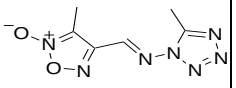
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
355	[96]		$C_3H_2N_{10}$	-62.9	78.6	1.74		1.270		1.674	913.6	1034.0	801.73	2.4748	8237	312	-	-	7732	260	8524	8164	286	1.472	8581	285
356	[96]		C_6N_{20}	-54.5	79.5	1.77		1.370		1.674	2194.6	2335.0	1626.43	2.8903	9413	381	-	-	8028	283	8889	8777	332	1.522	8690	302
357	[96]		$C_3HN_{11}O_2$	-32.3	69.1	1.85		1.456	2.196	1.782	951.8	1056.3	810.65	2.5821	8921	371	10187	494	8591	333	9255	9238	399	1.619	9236	363
358	[96]		$C_6H_2N_{18}O_4$	-36.9	64.6	1.85			2.158	1.805	2037.8	1595.0	1116.25	2.7955	9494	404	9816	460	6522	192	7846	8420	352	1.982	9500	398
359	[96]		$C_6H_2N_{14}$	-77.0	72.6	1.91				1.644	1525.2	1465.2	1053.77	2.7409	9587	423	-	-	8049	298	8676	8771	360	-	9200	348
360	[96]		$C_3H_2N_8O_2$	-43.9	61.5	1.81			2.076	1.782	647.8	659.7	524.32	2.5074	8574	344	9344	416	8292	306	8775	8746	355	1.929	8800	332
361	[96]		$C_6H_6N_8O_2$	-29.6	41.5	1.95			1.971	1.897	370.0	410.7	341.85	2.5194	9118	404	9062	389	8123	307	8379	8670	367	1.934	8998	360

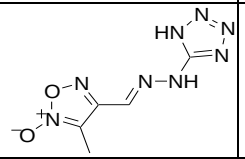
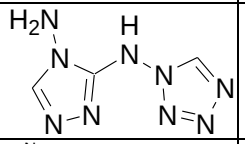
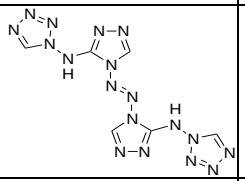
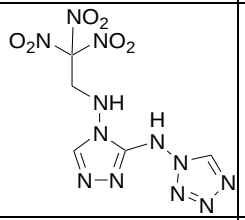
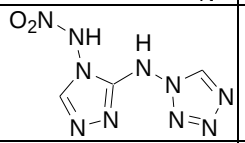
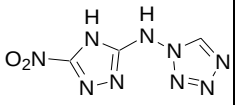
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
362	[96]		$C_4H_2N_8O_4$	-26.4	46.3	1.90 (predicted)			1.937	2.095	378.0	384.1		2.5534	9029	388	9389	420	8594	338	8850	8966	382	2.016	8970	354
363	[96]		$C_5H_2N_8O_2$	-69.9	54.4	1.81			2.056	1.729	533.5	664.6	688.02	2.3594	8185	322	8200	309	7349	240	7773	7877	290	1.893	7763	231
364	[96]		$C_5H_3N_{11}O_2$	-61.0	61.8	1.82			2.067	1.776	752.7	926.9	728.72	2.4734	8521	343	8709	357	7685	264	8207	8280	321	1.921	8312	270
365	[96]		$C_{10}H_4N_{14}O_8$	-50.0	43.7	1.85			1.971	1.859	899.0	912.2	748.55	2.5575	8669	347	8484	336	7876	275	8104	8283	319	1.915	8572	314
366	[96]		$C_6H_8N_8O_8$	-40.0	35.0	1.86			1.933	1.748	124.76	223.3	166.22	2.4573	8621	356	8328	321	8527	329	8430	8476	335	1.841	8798	338.7
367	[96]		$C_5H_{10}N_{10}O_6$	-47.0	45.7	1.73			1.832	1.791	304.2	-66.5	184.42	1.8909	6733	230	8532	340	8130	286	8247	7910	285	1.812	8492	294

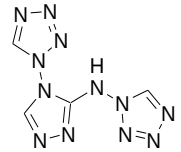
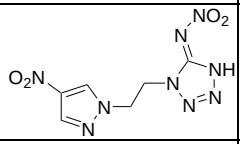
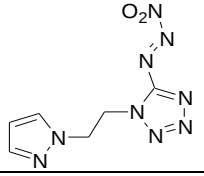
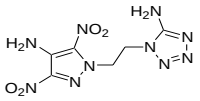
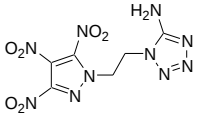
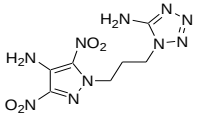
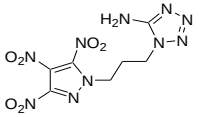
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
368	[96]		$C_7H_9N_9O_8$			1.85			1.892	1.876	348.2	35.0	270.09	1.9041	7098	268	8665	352	8610	334	8622	8249	318	1.884	8862	352
369	[97]		$C_3H_3N_7O$	-67.9	64.0	1.70				1.768	524.3	483.5		2.4401	8007	292	7641	257	7487	240	8012	7787	263	1.937	8215	255
370	[98]		$C_3H_3N_5O_6$	-11.7	34.1	1.875			1.794	1.796	26.13	-21.4	-152.23	2.4461	8644	361	8732	359	8858	357	8880	8778	359	1.795	8855	349.9
371	[98]		$C_5H_6N_8O_6$	-40.9	40.9	1.772	1.748			1.721	569.08	163.2		2.4049	8172	314	8237	312	7815	268	7988	8053	298	1.735	8630	319.8
372	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.780	1.733			1.717	600.04	221.1		2.1783	7614	285	8361	324	8584	325	8651	8302	311	1.725	8725	321.2
373	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.802	1.733			1.707	667.09	221.1		2.2784	7946	307	8518	339	8732	338	8781	8494	328	1.720	8877	337.1
374	[98]		$C_5H_8N_{10}O_6$	-42.1	46.0	1.814	1.719			1.733	508.38	279.1		2.0983	7511	286	8622	348	7910	279	8153	8049	304	1.726	8821	321.2

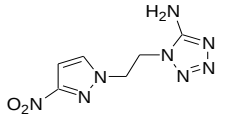
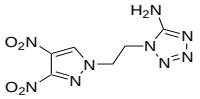
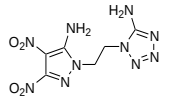
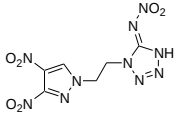
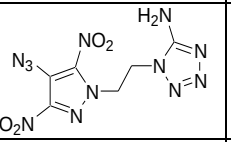
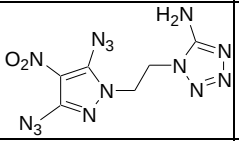
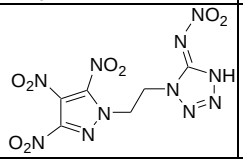
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
375	[98]		$C_4H_6N_{10}O_6$	-27.6	48.3	1.796	1.768			1.709	784.44	308.5		2.2796	7929	305	9166	399	8990	358	9162	8812	354	1.739	9142	365.7
376	[98]		$C_3H_4N_4O_4$	-40.0	35.0	1.811			1.943	1.678	-75.57	-107.6	-161.48	2.3388	8134	320	7855	277	8042	288	8047	8020	295	1.810	8140	272.2
377	[99]		$C_5H_7N_7$*	-130.8	59.4	1.47				1.414	699.62	812.5	481.10	2.3378	6973	203	-	-	6223	151	6701	6632	177	-	7725	245
378	[99]		$C_4H_6N_8$*	-105.9	67.4	1.52				1.536	747.17	895.0	535.53	2.3390	7146	219			6741	181	7292	7060	200	-	7724	203
379	[99]		$C_5H_2N_{10}O_8$	-14.5	42.4	1.79			1.991	1.886	602	582.9	396.52	2.7469	9124	370	9554	435	8641	330	8898	9054	378	1.938	8860	340
380	[99]		$C_5H_2N_{10}O_8$	-14.5	42.4	1.76			1.991	1.886	629	582.9	396.52	2.7469	9005	357	9554	435	8566	321	8834	8990	371	1.938	8780	320
381	[99]		$C_4H_5N_9O$	-64.4	59.7	1.76			1.933	1.772	407.7	483.3	493.71	2.2461	7724	288	8209	310	6410	180	7360	7426	259	1.853	8257	259

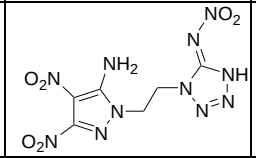
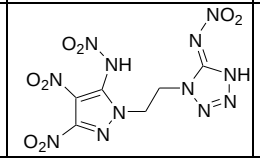
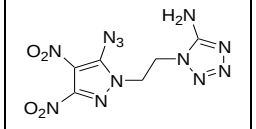
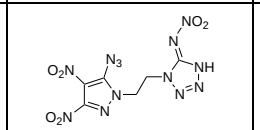
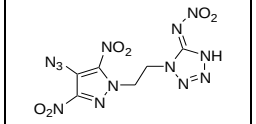
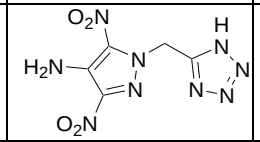
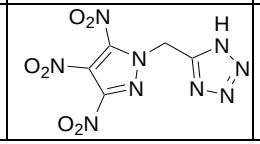
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
382	[99]		$C_7H_5N_9$	-122.7	58.6	1.59				1.518	882.5	941.3	753.40	2.3910	7504	247	-	-	6188	157	6707	6800	202	1.724	7120	172
383	[99]		$C_{10}H_8N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	676.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
384	[99]		$C_{10}H_6N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
385	[99]		$C_8H_6N_6O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	335.4	181.61	2.2957	7651	274	6859	184	7097	216	7075	7170	225	1.677	7274	199
386	[99]		$C_7H_5N_7O_4$	-79.6	39.0	1.69			1.825	1.675	369.0	427.6	368.26	2.2569	7522	265	7279	223	7051	212	7192	7261	233	1.750	7899	241
387	[99]		$C_7H_3N_7O_6$	-54.1	34.9	1.83			1.890	1.750	470.5	453.2	323.71	2.4442	8479	342	7988	289	7989	286	8022	8120	306	1.820	8298	284
388	[99]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	950.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.516	7734	262

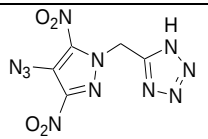
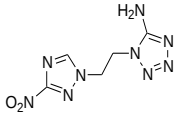
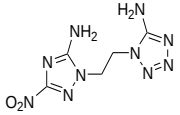
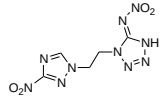
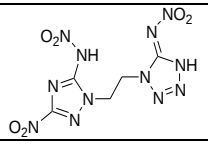
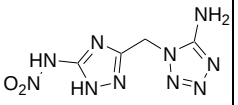
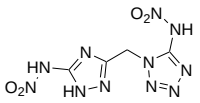
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
389	[99]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	541.8	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.755	8208	280
390	[99]		$C_8H_4N_{18}$	-81.8	71.6	1.95				1.681	1383	1778.2	1343.61	2.4267	8856	389	-	-	7518	263	8191	8188	326	-	8655	280
391	[99]		$C_5H_3N_{11}O_2$	-61.0	61.8	1.87			2.067	1.776	721.6	926.9	728.72	2.4734	8700	363	8709	357	7783	275	8293	8371	332	1.921	9010	328
392	[99]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
393	[99]		$C_{11}H_8N_{28}$	-78.1	73.7	1.88				1.664	1833.0	2719.1	2025.10	2.5203	8865	375	-	-	7280	241	8065	8070	308	-	7430	251
394	[99]		$C_6H_7N_7O_2$	-103.3	46.9	1.531				1.490	568.96	537.6		2.3438	7194	223	6118	115	6644	177	6903	6715	172	-	6900	192.4

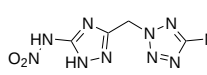
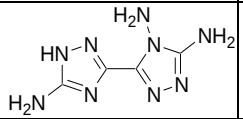
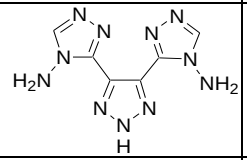
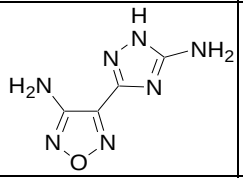
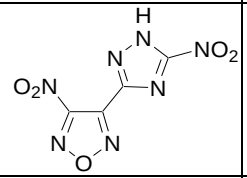
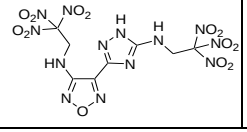
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
395	[99]		$C_6H_6N_8O_2$	-83.8	53.3	1.62				1.595	760.2	525.0		2.2449	7264	241	7169	213	7407	228	7685	7381	227	-	7991	235
396	[99]		$C_3H_5N_9$	-81.4	75.4	1.65				1.662	862.9	550.5	621.11	2.3402	7591	262	-	-	7632	245	8236	7820	254	-	8789	277
397	[99]		$C_6H_6N_{18}$	-72.7	76.3	1.68				1.661	1799.4	1586.1	1265.19	2.6211	8378	307	-	-	7669	250	8357	8135	278	-	8599	276
398	[99]		$C_5H_6N_{15}O_6$	-33.9	50.9	1.77			1.927	1.772	1091.8	690.7	558.48	2.4997	8409	327	9346	416	8791	339	9032	8894	361	1.849	9004	349
399	[99]		$C_3H_4N_{10}O_2$	-45.3	66.0	1.78			2.027	1.777	923.3	787.3	630.03	2.4475	8310	323	9240	406	8591	325	9065	8802	351	1.902	9141	336
400	[99]		$C_3H_3N_9O_2$	-44.6	64.0	1.74			2.050	1.787	950.6	484.1	555.97	2.4274	8117	305	9288	411	8541	317	9016	8740	344	1.918	8885	321

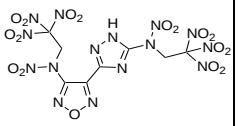
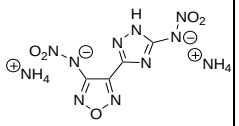
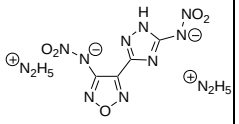
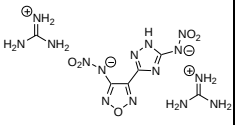
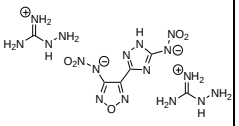
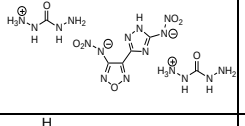
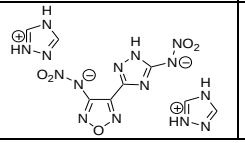
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
401	[99]		$C_4H_4N_{12}$	-72.7	76.3	1.71				1.683	1256.5	964.8	908.36	2.5876	8409	315	-	-	7848	265	8514	8257	290	-	9695	284
402	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.65			1.818	1.649	463	602.4	405.89	2.3711	7665	266	7941	285	7337	226	7571	7628	259	1.734	7824	231
403	[99]		$C_6H_7N_{10}O_4$	-91.1	53.2	1.50			1.827	1.509	522.3	818.5	475.60	2.3912	7192	218	6873	185	6435	164	6895	6849	189	1.668	7041	163
404	[99]		$C_6H_6N_{10}O_4$	-67.6	49.3	1.67			1.992	1.678	373.7	565.3	450.79	2.2911	7539	263	8057	296	7277	224	7569	7610	261	1.835	7889	232
405	[99]		$C_6H_4N_{10}O_6$	-45.8	44.6	1.71			1.873	1.745	430.7	594.0	406.24	2.4784	8138	301	8689	355	7817	263	8033	8169	306	1.809	8172	271
406	[99]		$C_7H_{10}N_{10}O_4$	-80.5	47.0	1.65			1.920	1.611	364.6	540.7	430.15	2.2099	7278	246	7503	244	7069	210	7301	7288	233	1.765	7768	218
407	[99]		$C_7H_8N_{10}O_6$	-58.5	42.7	1.67			1.805	1.676	437.3	569.4	385.60	2.3972	7797	276	8205	310	7565	242	7725	7823	276	1.740	7959	247

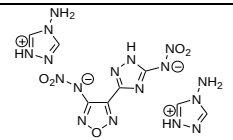
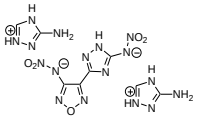
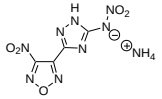
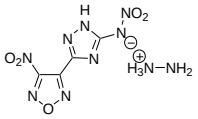
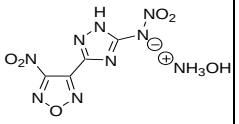
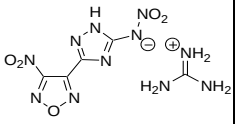
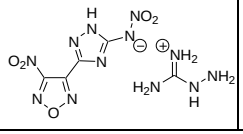
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
408	[99]		$C_6H_8N_8O_2$	-99.9	50.0	1.53			1.920	1.552	355.8	610.8	450.70	2.2638	7013	214	6285	130	6330	160	6730	6590	168	1.736	7072	168
409	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.59			1.818	1.659	394.7	602.4	428.47	2.3711	7458	245	7941	285	7067	205	7363	7457	245	1.739	7516	206
410	[99]		$C_6H_8N_{10}O_4$	-67.6	49.3	1.68			1.992	1.678	369.0	565.3	450.79	2.2911	7573	266	8057	296	7300	227	7588	7630	263	1.835	7883	230
411	[99]		$C_6H_6N_{10}O_6$	-45.8	44.6	1.69			1.873	1.735	485.6	594.0	383.66	2.4784	8066	293	8689	355	7814	261	8031	8150	303	1.804	8114	267
412	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.70		1.443	1.938	1.674	784.9	1090.9	714.80	2.4458	8021	293	8660	352	7692	253	8051	8106	299	1.558	8185	261
413	[99]		$C_6H_6N_{14}O_2$	-67.9	64.0	1.63		1.384	2.005	1.608	1057.8	1480.6	1023.36	2.4132	7695	264	8334	322	7286	221	7842	7789	269	1.496	7917	231
414	[99]		$C_6H_5N_{11}O_8$	-29.0	42.9	1.77			1.914	1.788	516.3	585.6	361.43	2.4391	8253	318	9155	398	8337	305	8529	8568	340	1.851	8555	316

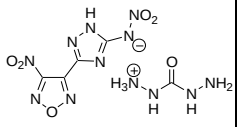
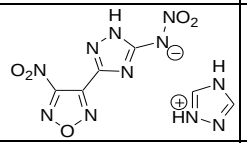
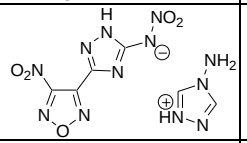
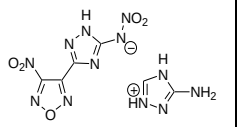
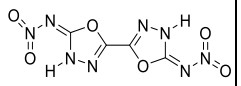
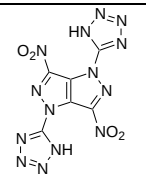
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
415	[99]		$C_6H_7N_{11}O_6$	-46.2	46.8	1.76			2.045	1.731	455.8	556.9	405.98	2.2518	7738	289	8778	363	7990	279	8201	8177	310	1.888	8388	288
416	[99]		$C_6H_6N_{12}O_8$	-29.9	44.9	1.84			1.907	1.791	501.8	579.1	414.90	2.3591	8287	334	9224	405	8534	327	8712	8689	355	1.849	8804	342
417	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.71		1.443	1.938	1.674	727.2	1090.9	714.80	2.4458	8057	297	8660	352	7657	252	8024	8100	300	1.558	8186	263
418	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.81		1.544	1.971	1.453	812.5	1082.5	669.99	2.4065	8309	329	9209	403	8336	309	8634	8622	347	1.498	8748	327
419	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.78		1.544	1.971	1.724	844.4	1082.5	669.99	2.4065	8204	318	9209	403	8270	301	8579	8566	341	1.634	8659	318
420	[99]		$C_5H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	439.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
421	[99]		$C_5H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	468.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345

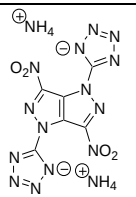
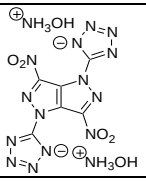
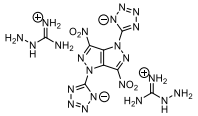
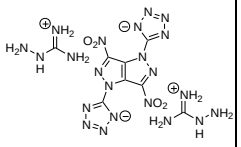
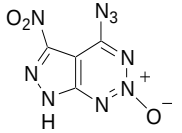
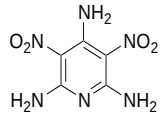
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
422	[99]		$C_5H_3N_{11}O_4$	-42.7	54.8	1.81		1.473	2.031	1.741	782.1	965.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
423	[99]		$C_5H_7N_9O_2$	-81.7	56.0	1.58			2.009	1.589	382.8	637.9	504.13	2.3651	7410	241	7265	222	6690	183	7181	7136	215	1.799	7395	188
424	[99]		$C_5H_8N_{10}O_2$	-79.9	58.3	1.66			1.825	1.614	359.4	695.9	526.45	2.2851	7492	259	7349	230	6879	200	7390	7278	230	1.720	7807	216
425	[99]		$C_5H_6N_{10}O_4$	-53.3	51.8	1.66			1.892	1.663	476.8	629.5	459.32	2.3258	7590	264	8668	353	7534	240	7887	7920	286	1.777	8113	256
426	[99]		$C_5H_6N_{12}O_6$	-33.9	50.9	1.69			1.927	1.753	511.5	709.7	490.56	2.3531	7758	277	9346	416	7947	270	8299	8338	321	1.840	8690	322
427	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.71			1.919	1.699	476.2	659.1	557.65	2.2662	7611	273	8236	312	7406	236	7929	7796	274	1.809	8187	249
428	[99]		$C_4H_5N_{11}O_4$	-38.4	56.8	1.81			1.966	1.785	285.0	742.7	566.57	2.3735	8222	324	9388	420	7847	274	8356	8453	339	1.875	8750	318

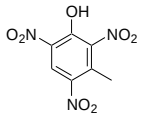
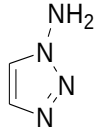
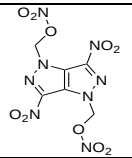
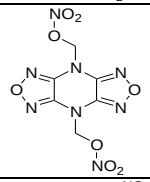
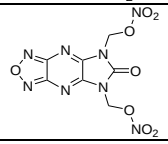
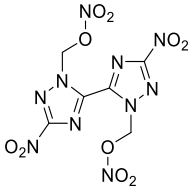
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
429	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.72			1.919	1.699	462.8	659.1	557.65	2.2662	7644	277	8236	312	7411	237	7937	7807	275	1.809	8213	252
430	[100]		$C_4H_7N_9$*	-101.6	69.6	1.68				1.670	396.8	544.9	538.26	2.0588	7006	237	-	-	6392	174	7191	6863	206	-	7818	204
431	[100]		$C_6H_7N_{11}$*	-106.4	66.1	1.65				1.648	763.0	784.7	772.08	2.2049	7266	246	-	-	6508	178	7128	6967	212	-	7806	207
432	[101]		$C_4H_5N_7O$	-91.0	58.7	1.596				1.685	404.03	366.9	325.54	2.1587	6986	223	5873	92	6656	182	7161	6669	166	-	6846	193
433	[101]		$C_4HN_7O_5$	-24.7	43.2	1.863			2.013	1.883	499.91	234.2	236.44	2.5333	8837	369	9321	414	8668	340	8907	8933	374	1.948	9152	371
434	[101]		$C_8H_7N_{13}O_{13}$	-21.1	36.9	1.908			1.869	1.822	451.38	340.8	200.28	2.4777	8849	379	9135	396	8962	369	8980	8982	381	1.845	9087	381

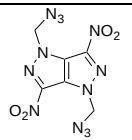
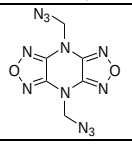
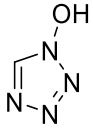
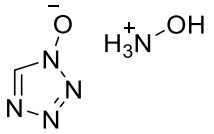
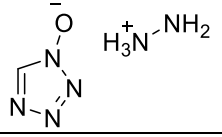
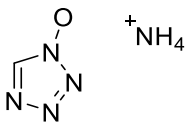
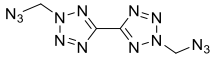
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
435	[101]		$C_8H_5N_{15}O_{17}$	-4.1	36.0	1.932			1.920	1.891	648.95	446.6	206.88	2.8925	10100	458	9560	436	9383	407	9455	9624	434	1.905	9355	401
436	[101]		$C_4H_9N_{11}O_5$	-41.2	52.9	1.822	1.691			1.676	246.19	473.3		2.5993	8861	362	9163	399	8274	306	8549	8712	356	1.683	8897	319
437	[101]		$C_4H_{11}N_{13}O_5$	-42.3	56.7	1.834	1.669			1.691	616.05	589.2		2.2391	7947	313	9281	410	8716	341	8949	8723	355	1.680	9045	349
438	[101]		$C_6H_{13}N_{15}O_5$	-57.6	56.0	1.659	1.641			1.673	249.08	501.9		1.9311	6635	215	8748	360	7260	222	7740	7596	266	1.657	7942	229
439			$C_6H_{15}N_{17}O_5$	-57.2	58.8	1.679	1.627			1.685	656.43	571.8		1.7711	6301	201	8872	372	7723	254	8109	7751	276	1.656	8455	265
440	[101]		$C_6H_{15}N_{17}O_7$	-45.7	54.5	1.687	1.665			1.710	607.27	527.0		1.8511	6517	213	9198	402	8000	273	8300	8004	296	1.688	8159	277
441			$C_6H_9N_{15}O_5$	-62.7	53.2	1.780	1.691			1.711	833.73	906.9		2.2909	7905	301	8466	334	7763	266	8055	8047	300	1.701	8341	264

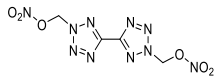
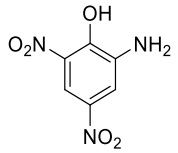
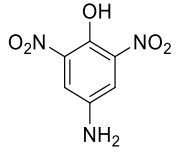
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442	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.761	1.674			1.721	1103.75	1068.9		2.3311	7945	300	8604	347	7934	276	8233	8179	308	1.698	8642	291
443	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.752	1.674			1.735	804.55	1068.9		2.1309	7405	269	8604	347	7640	255	8006	7914	290	1.704	8373	268
444	[101]		$C_4H_5N_9O_5$	-34.0	48.6	1.815	1.763			1.761	349.86	415.1		2.5663	8748	354	8998	384	8371	312	8610	8682	350	1.762	8716	326
445	[101]		$C_4H_6N_{10}O_5$	-35.0	51.1	1.847	1.746			1.766	519.39	473.0		2.3862	8384	340	9297	411	8677	339	8892	8812	363	1.756	9060	358
446	[101]		$C_4H_5N_9O_6$	-26.2	45.8	1.844	1.785			1.757	402.73	273.8		2.5062	8695	357	9383	419	8747	344	8913	8934	373	1.771	8954	357
447	[101]		$C_5H_7N_{11}O_5$	-45.2	51.2	1.677	1.722			1.746	309.89	429.4		2.2322	7419	258	8964	380	7576	244	7951	7978	294	1.734	7990	247
448	[101]		$C_5H_8N_{12}O_5$	-45.5	53.2	1.670	1.709			1.751	502.18	441.3		2.1522	7202	246	9033	387	7771	256	8120	8032	296	1.730	8187	258

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
449	[101]		$C_5H_8N_{12}O_6$	-38.5	50.6	1.676	1.730			1.765	468.58	464.9		2.1922	7319	252	9196	402	7932	267	8238	8171	307	1.748	8256	270
450	[101]		$C_6H_5N_{11}O_5$	-48.8	49.5	1.720	1.751			1.770	620.12	654.9		2.4121	8008	296	8778	363	7773	261	8084	8161	307	1.760	8197	271
451	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.748	1.737			1.774	719.34	712.8		2.4322	8157	309	8853	370	7962	276	8261	8308	318	1.756	8424	288
452	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.716	1.737			1.784	570.70	712.8		2.3321	7795	284	8853	370	7697	255	8048	8098	303	1.760	8151	263
453	[102]		$C_4H_2N_8O_6$	-18.6	43.4	1.99			1.981	1.849	159.8	313.1	66.11	2.3467	8765	392	8566	343	8790	363	9006	8782	366	1.915	9457	403.9
454	[103]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
455	[103]		$C_6H_8N_{16}O_4$	-52.1	60.9	1.69	1.705			1.724	916.8	1181.2		2.9267	9167	350	9072	390	7682	252	8171	8523	331	1.715	8404	262
456	[103]		$C_6H_8N_{16}O_6$	-40.0	56.0	1.61	1.740			1.760	1062.2	803.5		2.8065	8545	302	9369	418	7853	255	8262	8507	325	1.750	8237	260
457	[103]		$C_6H_{10}N_{18}O_4$*	-63.0	63.9	1.75	1.648			1.720	1223.0	945.3		2.0985	7316	264	8793	364	7746	262	8223	8020	297	1.684	9082	313
458	[103]		$C_6H_{14}N_{22}O_4$*	-63.0	63.9	1.64	1.648			1.720	1143.3	1325.7		2.0985	6981	230	8793	364	7344	226	7893	7753	273	1.684	8396	249
459	[104]		$C_4HN_9O_3$	-39.4	56.5	1.86		1.441	2.206	1.828	744.75	878.6		2.5007	8738	363	9441	425	8378	317	8823	8845	368	1.821	9111	351.4
461	[38]		$C_5H_6N_6O_4$	-67.2	39.2	1.82			1.744	1.726	-38.9	11.1	156.76	2.0308	7350	278	7663	259	7393	244	7488	7474	260	1.735	7749	224

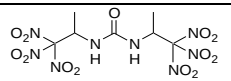
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462	[38]		$C_7H_5N_3O_7$	-62.5	17.3	1.62			1.764	1.677	-252.3	-216.1	-195.28	2.23256	7242	239	6987	196	7558	237	7385	7293	224	1.720	6763	180
463	[24]		$C_2H_4N_4$*	-114.2	66.6	1.441				1.523	285.6	278.6	258.07	2.22528	6697	187	-	-	6268	151	6882	6616	169	-	7767	19.5
465	[105]		$C_6H_4N_8O_{10}$	-18.4	32.2	1.82			1.863	1.884	133.7	61.3	-13.79	2.69083	9116	376	8788	364	8561	327	8593	8764	356	1.873	8674	331
466	[105]		$C_6H_4N_8O_8$	-30.4	35.4	1.84			1.874	1.853	276.6	185.4	-45.93	2.61883	8980	373	8546	341	8449	321	8493	8617	345	1.864	8669	334
467	[105]		$C_7H_4N_8O_8$	-39.0	34.1	1.79			1.870	1.840	-7.2	-3.4	-25.84	2.69009	8979	362	7994	290	7746	265	7860	8145	306	1.855	8057	273
468	[105]		$C_6H_4N_{10}O_{10}$	-17.0	37.2	1.83			1.908	1.839	113.6	179.5	97.25	2.74057	9281	387	9065	390	8460	321	8604	8852	366	1.873	8639	327

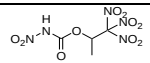
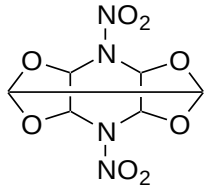
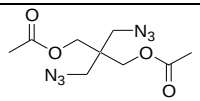
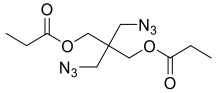
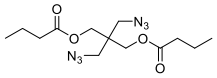
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469	[105]		$C_6H_4N_{12}O_4$	-51.9	54.5	1.71		1.443	2.006	1.699	946.3	1056.6	867.77	2.5531	8324	310	8868	371	7816	263	8209	8304	315	1.571	8292	276
470	[105]		$C_6H_4N_{12}O_2$	-69.5	60.9	1.68		1.357		1.652	1100.2	1180.7	835.63	2.4731	8017	289	8304	319	7484	238	7971	7944	282	1.504	8323	278
474	[106]		CH_2N_4O	-37.2	65.1	1.63			2.075	1.681	252	238.1	111.87	2.4741	7840	271	8682	354	7977	265	8516	8254	297	1.825	8405	269
475	[106]		$CH_5N_5O_2$	-33.6	58.8	1.67	1.646			1.634	343	192.2		2.4269	7869	280	8814	366	7818	259	8333	8208	302	1.785	9284	331
476	[106]		CH_6N_6O	-54.2	71.2	1.60	1.553			1.594	259	296.3		2.3069	7343	241	6198	122	7838	253	8394	7443	205	1.574	9437	319
477	[106]		CH_5N_5O	-54.3	67.9	1.40	1.568			1.562	207	333.4		2.4870	7646	250	6287	131	7683	240	8207	7456	207	1.574	8013	213
478	[107]		$C_4H_4N_{14}$	-64.5	79.0	1.62		1.311	2.147	1.551	1258	1596.1	1130.13	2.5885	8073	281	-	-	7444	230	8238	7918	256	1.670	8155	237

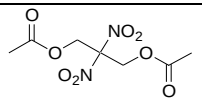
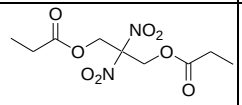
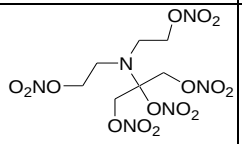
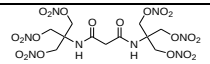
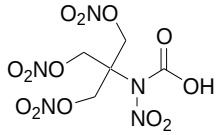
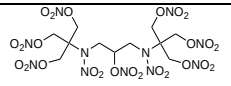
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Kesh avarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Kesh avarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Kesh avarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Kesh avarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Kesh avarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
479	[107]		$C_4H_4N_{10}O_6$	-22.2	48.6	1.69			1.955	1.764	441	600.8	248.57	2.7337	8693	326	9054	389	8152	284	8496	8599	333	1.860	8377	286
480	[108]		$C_6H_5N_3O_5$	-76.3	21.1	1.69			1.744	1.679	-262.4	-201.8	-118.62	2.1295	7209	249	6451	146	6726	193	6635	6755	196	1.712	6553	162
481	[109]		$C_6H_5N_3O_5$	-76.3	21.1	1.78			1.744	1.679	-0.5	-201.8	-118.62	2.1295	7488	279	6451	146	7465	246	7179	7146	224	1.712	7458	225

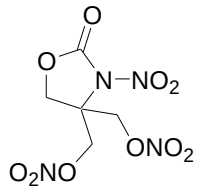
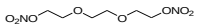
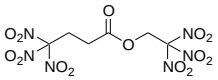
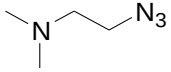
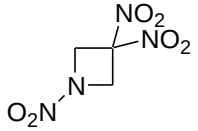
2.1.5 Non-Aromatic Compounds

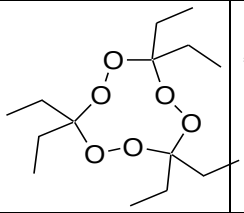
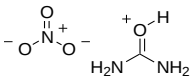
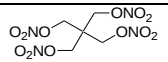
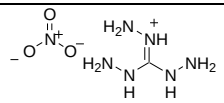
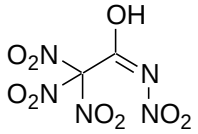
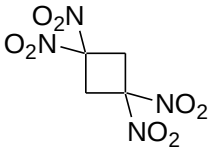
Table 16. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C-J)}$, heat of formation and density for the selected non-aromatic compounds at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

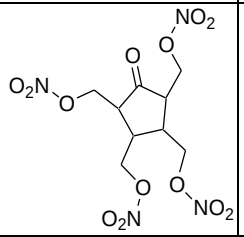
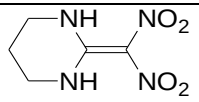
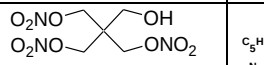
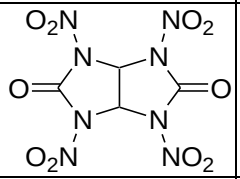
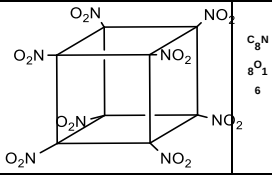
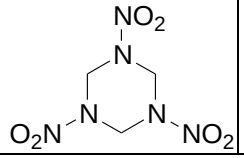
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1	[22]		$C_7H_{10}N$	-23.2	27.1	1.82			1.697	1.712	-367	-379.3	-354.36	2.3759	8263	328	8400	328	8547	326	8388	8399	327	1.704	8469	321

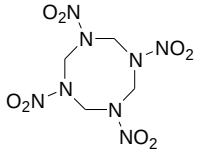
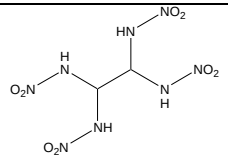
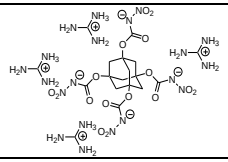
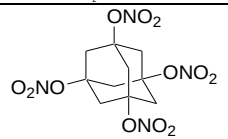
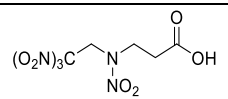
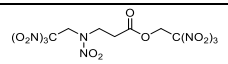
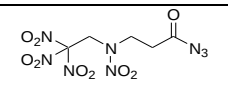
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
			$C_8H_{13}O_1$																								
2	[22]		$C_4H_5N_5O_{10}$	-2.8	24.7	1.58			1.747	1.792	-368	-332.1	-431.07	2.5249	7777	259	8582	345	7953	259	8006	7912	259	1.770	7680	228
3	[23] [24]		$C_6H_6N_4O_8$	-42.7	21.4	1.985			1.769	2.007	-541	-35.5	-372.31	2.3697	8822	394	6896	187	8139	311	7832	8092	319	1.888	8615	343
26	[35]		$C_9H_{14}N_6O_4$*	-124.3	31.1	1.21		1.226	1.443	1.280	-242	-65.3	-108.82	2.0063	5507	109	4203	-64	4912	81	5434	4828	28		5420	79
27	[35]		$C_{11}H_{18}N_6O_4$*	-144.8	28.2	1.16		1.171	1,335	1.230	-296	-114.5	-150.10	1.8439	5088	89	3458	-133	4553	68	5124	4556	12	1.316	5292	72
28	[35]		$C_{13}H_{22}N_6O_4$*	-161.8	25.8	1.09		1.123	1.245	1.192	-349	-163.6	-191.38	1.6815	4648	68	2842	-191	4185	54	4852	4130	-34	1.251	5048	62

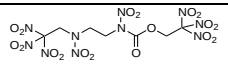
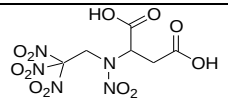
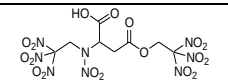
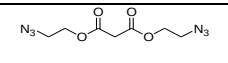
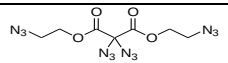
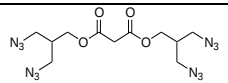
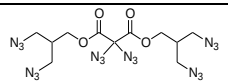
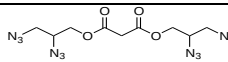
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
29	[35]		$C_7H_{10}N_2O_8$*	-70.3	11.2	1.33			1.423	1.478	-872	-- 810.8	-684.66	2.2339	6297	154	5396	47	5796	122	5916	5851	108	1.347	5683	100
30	[35]		$C_9H_{14}N_2O_8$*	-97.8	10.1	1.22			1.309	1.386	-926	-859.9	-725.94	2.0715	5652	116	4641	-23	5224	93	5435	5238	93	1.348	5111	75
31	[36]		$C_7H_{12}N_6O_{15}$	-29.5	20.0	1.69			1.602	1.632	-530.6	-543.4	-843.93	2.6015	8368	309	8008	291	8393	301	8158	8232	300	1.617	8059	-
32	[36]		$C_{11}H_{16}N_8O_{20}$	-27.8	19.3	1.67			1.606	1.632	-1044.4	-1024.8	-1095.99	2.3383	7654	269	7548	248	7911	265	7726	7710	261	1.619	7891	-
33	[36]		$C_6H_9N_5O_{13}$	-15.6	20.3	1.73			1.788	1.775	-614.8	-683.3	-869.55	2.6638	8307	333	8209	310	8495	312	8356	8434	318	1.781	8048	-
34	[36]		$C_{11}H_{17}N_{11}O_{25}$	-12.5	21.9	1.80			1.710	1.726	-637.8	-695.5	-1180.47	2.8060	9319	383	8384	326	8869	349	8622	8798	353	1.718	8550	328

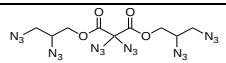
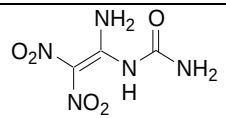
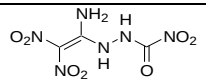
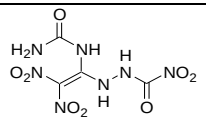
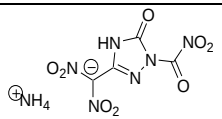
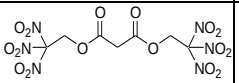
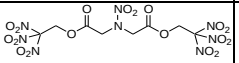
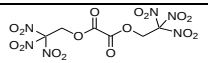
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
35	[36]		$C_5H_6N_4O_{10}$	-17.0	19.9	1.84			1.775	1.780	-752.4	-318.5	-314.69	2.5237	8727	358	7679	260	8165	300	8008	8145	306	1.777	8266	313
44	[38]		$C_6H_{12}N_2O_8$	-66.6	11.7	1.344			1.273	1.452	-656.9	-605.8	-717.57	2.3007	6473	164	5848	90	6468	153	6354	6286	136	1.362	6498	143
45	[38]		$C_6H_6N_6O_{14}$	-4.1	21.8	1.78			1.748	1.780	-421.7	-516.8	-482.52	2.6571	8852	353	8537	340	8658	330	8534	8645	341	1.764	8616	335
46	[24]		$C_4H_{10}N_4$	-182.2	49.1	0.933		1.140		1.109	277	279.1	239.44	2.1833	4940	63	-	-	4252	49	5168	4787	56	1.124	5730	73
48	[41]		$C_3H_4N_4O_6$	-16.7	29.2	1.841			1.935	1.823	62.2	16.2	-8.72	2.5189	8718	358	8676	354	9047	368	8905	8836	360	1.879	8947	365

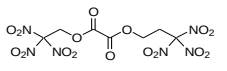
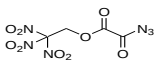
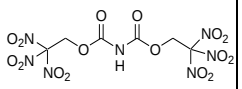
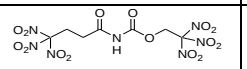
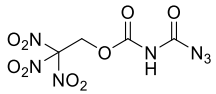
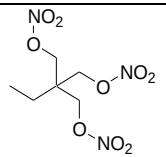
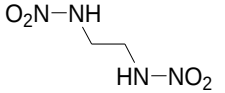
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
49	[42]		$C_{15}H_{30}O_8$*	-198.3	0.0	1.25				1.124	-583.8	-744.8	-1104.05	1.4425	4600	79	714	-389	4462	69	4599	3594	-120	-	6322	114
50	[43]		$CH_5N_3O_4$	-6.5	17.7	1.655	1.729			1.709	-546.7	-464.3		2.3594	7705	271	8428	330	7218	221	7777	7782	274	1.719	7958	236
51	[44]		$C_5H_8N_4O_{12}$	-10.1	17.7	1.76			1.768	1.706	-538.48	-497.1	-727.20	2.5965	8620	336	8077	298	8652	328	8375	8431	321	1.737	8525	316
53	[38]		$CH_9N_7O_3$*	-33.5	58.7	1.509	1.590			1.714	-69.2	-1073.4		1.9994	6364	181	8827	368	7487	222	8013	7673	257	1.652	8893	279
54	[38]		$C_2HN_5O_9$*	30.1	29.3	1.87			2.017	1.937	-134.7	-78.2	-216.20	2.7474	9325	392	8176	307	9370	395	9506	9094	365	1.977	7503	230
55	[38]		$C_4H_4N_4O_8$	-13.6	23.7	1.83			1.837	1.819	-84	124.6	-92.15	2.5249	8730	359	8575	344	8873	354	8696	8718	352	1.828	8646	339

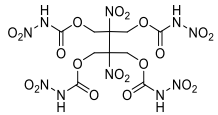
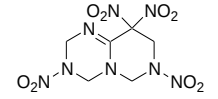
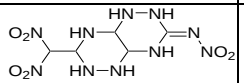
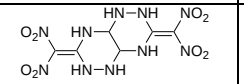
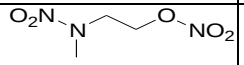
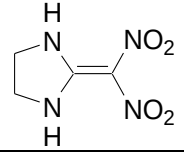
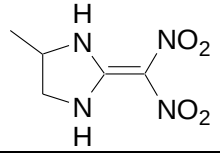
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
56	[38]		$C_8H_{12}N_2O_{13}$	-45.8	-8.3	1.55			1.486	1.622	-676.2	-698.4	-892.82	2.3261	7219	227	6786	177	7308	216	7108	7105	207	1.554	7518	203
59	[47]		$C_3H_6N_4O_4$	-85.0	29.8	1.65			1.618	1.567	61.8	-80.6	159.51	2.0763	6958	230	6292	131	7331	226	7163	6936	196	1.593	7906	232
60	[38]		$C_5H_9N_3O_{10}$	-26.6	15.5	1.54			1.622	1.642	-560.7	-629.2	-736.45	2.4892	7550	241	7540	248	7683	237	7484	7564	242	1.632	7777	253
61	[38]		$C_4H_2N_{10}O_{10}$*	5.0	34.8	2.04			2.035	2.065	41.8	-76.1	-30.47	2.7069	10004	479	8856	370	9548	434	9617	9506	428	2.050	9946	402
62	[38]		$C_8N_8O_{16}$	0.0	24.1	1.979			2.013	2.202	413.8 594	407.3	585.82	2.6581	9623	441	8928	377	9469	420	9443	9366	413	2.107	9562	422
64	[26]		$C_3H_6N_6O_6$	-21.6	37.8	1.806			1.843	1.797	86.3	40.2	77.92	2.5591	8237	341	8940	378	8771	340	8765	8773	353	1.820	8882	340

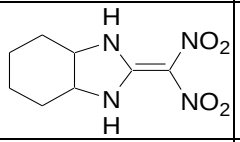
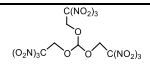
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
65	[38]		$C_4H_8N_8O_8$	-21.6	37.8	1.903			1.843	1.782	92.8	65.1	81.13	2.6053	9184	398	9042	388	9149	384	9077	9113	390	1.812	9286	381
66	[38]		$C_2H_6N_8O_8$	5.9	41.5	1.87			1.819	1.889	48.5	-- 179.6	75.67	2.3601	8393	345	9659	445	9636	421	9720	9352	404	1.854	8760	392
76	[49]		$C_{18}H_{44}N_{20}O_{18}$*	-84.4	35.2	1.54	1.551			1.561	-1628	-1313.0		0.8429	3538	68	6836	182	6308	160	6589	5900	137	1.556	6809	159
77	[49]		$C_{10}H_{12}N_4O_{12}$	-58.9	14.7	1.659			1.534	1.705	-581	-446.9	-568.79	2.2121	7348	253	6556	156	7435	234	7121	7115	214	1.619	7282	229
78	[50]		$C_5H_7N_5O_{10}$	-18.8	23.6	1.72			1.778	1.711	-463.1	-389.9	-472.89	2.5438	8337	313	8093	299	8150	287	8041	8155	300	1.744	7987	277
79	[50]		$C_7H_8N_8O_{16}$	-7.0	24.4	1.73			1.747	1.773	-398.4	-369.2	-446.39	2.7033	8775	338	8653	351	8503	313	8429	8590	334	1.760	8300	292
80	[50]		$C_5H_6N_8O_9$	-19.9	34.8	1.70		1.685		1.651	98.3	259.4	138.42	2.5785	8349	310	8707	356	8288	294	8363	8427	320	1.687	8285	291

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
81	[50]		$C_7H_8N_{10}O_{18}$	0.0	26.9	1.89			1.786	1.816	-292.8	-224.6	-389.62	2.8307	9754	428	9008	384	9212	387	9102	9269	400	1.762	9083	365
82	[50]		$C_6H_7N_5O_{12}$	-16.4	20.5	1.66			1.787	1.738	-824.5	-782.0	-840.91	2.5498	8130	291	7739	266	7671	248	7652	7798	268	1.762	7515	234
83	[50]		$C_8H_8N_8O_{18}$	-6.3	22.2	1.65			1.847	1.787	-777.5	-666.2	-814.41	2.7093	8475	306	8354	323	8014	270	8010	8213	300	1.817	7801	247
84	[51]		$C_7H_{10}N_6O_4$*	99.1	34.7	1.38		1.292		1.348	-176	174.0	-58.79	2.1687	6329	162	5120	22	5648	119	6039	5784	101	1.320	6192	118
85	[51]		$C_7H_8N_{12}O_4$	-69.1	51.8	1.49		1.410		1.437	542	936.5	528.06	2.3181	6999	208	7209	217	6660	174	7135	7001	200	1.423	6974	170
86	[51]		$C_9H_{12}N_{12}O_4$*	-109.4	44.2	1.38		1.323		1.318	466	838.2	443.69	1.9933	5977	148	5598	66	5880	129	6278	5933	114	1.321	6576	160
87	[51]		$C_9H_{18}N_{18}O_4$*	-86.5	54.5	1.51		1.413		1.382	1187	1600.6	1030.54	2.1427	6681	196	6978	195	6695	178	7122	6869	190	1.397	7147	181
88	[51]		$C_9H_{12}N_{12}O_4$*	-90.8	47.7	1.30		1.361		1.370	440	887.3	484.97	2.1557	6052	141	6340	135	5809	120	6350	6138	132	1.365	6252	119

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
89	[51]		$C_8H_{10}N_{18}O_4$*	-70.0	58.1	1.50		1.446		1.433	1160	1649.8	1071.82	2.3051	7004	209	7669	260	6816	183	7346	7209	217	1.440	7087	178
90	[52]		$C_3H_5N_5O_5$	-29.3	36.6	1.86			1.744	1.770	-277	-162.3	-20.66	2.1987	7922	317	8184	308	8067	294	8183	8089	306	1.757	8516	305
91	[52]		$C_3H_4N_6O_7$	-6.8	35.6	1.79			1.831	1.862	-153	-186.6	-11.74	2.3060	7978	307	9009	385	8512	320	8634	8533	337	1.847	8576	293
92	[52]		$C_4H_7N_7O_8$	-14.3	35.1	1.70			1.818	1.841	-355	-331.9	-7.50	2.1920	7394	260	8573	344	7818	262	8043	7957	289	1.829	7085	231
93	[52]		$C_4H_5N_7O_8$	-14.3	35.1	1.82	1.820			1.827	-337	-205.1		2.3922	8306	331	8573	344	8225	302	8370	8369	326	1.824	8359	279
94	[53]		$C_7H_6N_6O_{16}$	-3.7	19.5	1.76				1.748	1.789	-759	-813.8	-736.45	2.6631	8790	345	8197	309	8361	306	8262	8402	320	1.768	8263	246
95	[53]		$C_9H_8N_8O_{18}$	-6.3	22.2	1.78				1.748	1.781	-691	-476.0	-700.32	2.7093	8987	360	8354	323	8506	319	8401	8562	334	1.764	8415	240
113	[57]		$C_6H_4N_6O_{16}$*	7.7	20.2	1.84				1.797	1.851	-668.0	-694.1	-715.81	2.7443	9317	392	8017	292	8813	349	8724	8718	344	1.824	8275	286

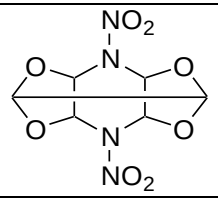
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
114	[57]		$C_7H_6N_6O_{16}$	-3.7	19.5	1.73			1.748	1.789	-705.2	-940.6	-736.45	2.6631	8674	333	8197	309	8305	299	8220	8349	314	1.769	8071	270
115	[57]		$C_4H_2N_6O_9$	0.0	30.2	1.75		1.858		1.782	-170.5	-287.4	-131.00	2.6195	8641	335	8574	344	8353	304	8496	8516	328	1.820	8223	280
116	[57]		$C_6H_5N_7O_{16}$*	5.6	22.7	1.92			1.795	1.851	-775.2	-509.4	-662.34	2.6643	9413	415	8251	314	8967	370	8867	8874	366	1.823	8675	237
117	[57]		$C_7H_7N_7O_{15}$	-9.3	22.8	1.63			1.748	1.776	-645.2	-693.8	-478.28	2.5431	8003	279	8303	319	7889	260	7905	7932	270	1.762	7703	241
118	[57]		$C_4H_3N_7O_9$	-2.7	33.5	1.50		1.878		1.785	-271	-118.5	-77.53	2.5395	7515	233	8697	355	7385	215	7727	7831	268	1.831	7213	189
119	[26]		$C_6H_{11}N_3O_9$	-50.5	15.6	1.500			1.445	1.527	-480	-451.2	-604.86	2.3680	7141	216	6815	180	7298	210	7074	7082	202	1.529	7097	196
121	[26]		$C_2H_6N_4O_4$	-32.0	37.3	1.75			1.608	1.646	-103.8	-60.9	0.81	2.3055	7842	292	8309	319	8421	309	8380	8238	307	1.627	8336	299

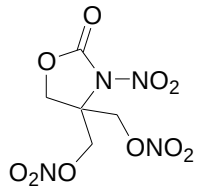
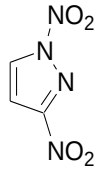
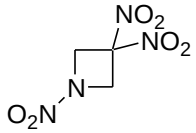
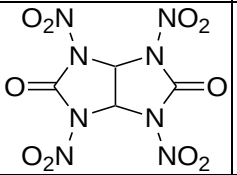
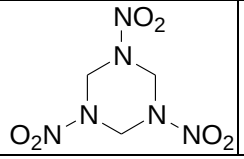
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
130	[60]		$C_{10}H_{16}N_6O_{12}$	-16.2	23.7	1.89			1.713	1.764	-1441.5	-1355.9	-1051.07	2.2739	8225	340	7846	276	8293	314	8190	8138	310	1.739	8298	-
366	[96]		$C_6H_8N_8O_8$	-40.0	35.0	1.86			1.933	1.748	124.76	223.3	166.22	2.4573	8621	356	8328	321	8527	329	8430	8476	335	1.841	8798	338.7
367	[96]		$C_8H_{10}N_{10}O_8$	-47.0	45.7	1.73			1.832	1.791	304.2	-66.5	184.42	1.8909	6733	230	8532	340	8130	286	8247	7910	285	1.812	8492	294
368	[96]		$C_7H_9N_9O_8$			1.85			1.892	1.876	348.2	35.0	270.09	1.9041	7098	268	8665	352	8610	334	8622	8249	318	1.884	8862	352
460	[26]		$C_3H_7N_3O_5$	-43.6	25.5	1.53			1.364	1.547	-150.0	-125.7	-191.46	2.4444	7414	233	7345	229	7676	236	7536	7493	233	1.456	8050	259
471	[47]		$C_4H_6N_4O_4$	-64.3	32.2	1.69			1.717	1.668	-5.7	-56.0	75.27	2.1575	7278	253	7097	206	7566	244	7483	7356	234	1.692	8394	286
472	[47]		$C_5H_8N_4O_4$	-85.0	29.8	1.62			1.618	1.567	53.3	-80.6	34.29	2.0763	6867	221	6292	131	7225	217	7087	6868	190	1.593	7720	230

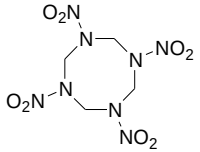
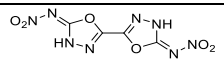
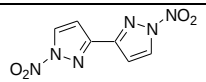
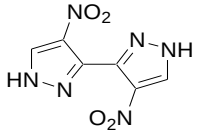
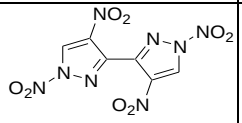
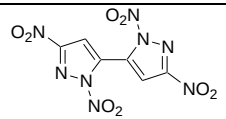
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
473	[47]		$C_8H_{12}N_4O_4$*	-126.2	24.6	1.54			1.478	1.472	107.4	-96.6	39.01	1.8399	6097	173	4706	-17	6387	164	6239	5857	160	1.475	7251	177
482	[110]		$C_7H_7N_9O_{21}$	10.1	22.8	1.81			1.785	1.851	-1021	-519.9	-781.13	2.9306	9687	405	8675	353	8741	340	8702	8951	366	1.818	-	-

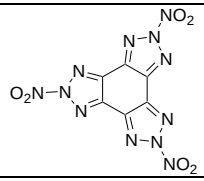
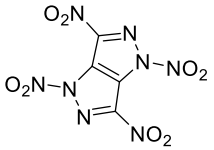
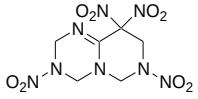
2.1.6 Cyclic Nitramines

Table 17. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure (P_{C-J}), heat of formation and density for the selected cyclic nitramines at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
3	[23] [24]		$C_6H_6N_4O_8$	-42.7	21.4	1.985			1.769	2.007	-541	-35.5	-372.31	2.3697	8822	394	6896	187	8139	311	7832	8092	319	1.888	8615	343

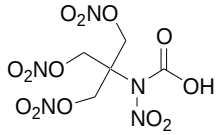
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
35	[36]		$C_5H_6N_4O_{10}$	-17.0	19.9	1.84			1.775	1.780	-752.4	-318.5	-314.69	2.5237	8727	358	7679	260	8165	300	8008	8145	306	1.777	8266	313
37	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8459	308
48	[41]		$C_3H_4N_4O_6$	-16.7	29.2	1.841			1.935	1.823	62.2	16.2	-8.72	2.5189	8718	358	8676	354	9047	368	8905	8836	360	1.879	8947	365
61	[38]		$C_4H_2N_8O_{10}$*	5.0	34.8	2.04			2.035	2.065	41.8	-76.1	-30.47	2.7069	10004	479	8856	370	9548	434	9617	9506	428	2.050	9946	402
64	[26]		$C_3H_6N_6O_6$	-21.6	37.8	1.806			1.843	1.797	86.3	40.2	77.92	2.5591	8237	341	8940	378	8771	340	8765	8773	353	1.820	8882	340

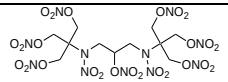
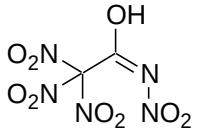
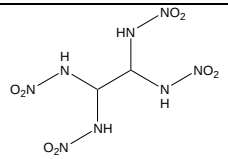
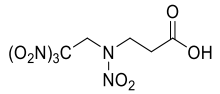
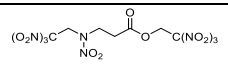
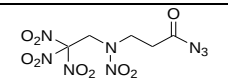
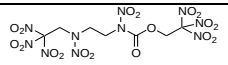
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
65	[38]		$C_4H_8N_8O_8$	-21.6	37.8	1.903			1.843	1.782	92.8	65.1	81.13	2.6053	9184	398	9042	388	9149	384	9077	9113	390	1.812	9286	381
123	[58]		$C_4H_2N_8O_6$	-18.6	43.4	1.98			1.981	1.849	278.6	190.5	66.11	2.3467	8731	387	8566	343	8941	375	9130	8842	368	1.915	9388	391
139	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.751	413.9	321.2	340.57	2.4109	8320	330	7503	244	7718	265	7728	7817	280	1.794	8301	288
142	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.83			1.836	1.759	221	149.5	299.39	2.2107	7858	308	7503	244	7469	250	7512	7586	267	1.797	8120	269
143	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.85			1.940	1.920	407.1	304.4	296.11	2.6255	9037	378	8908	375	8523	327	8631	8775	360	1.980	8869	345
144	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.855			1.940	1.920	444.1	304.4	296.11	2.6255	9057	380	8908	375	8578	332	8680	8806	362	1.980	8926	354

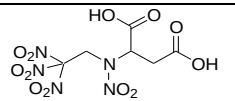
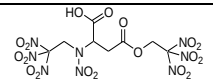
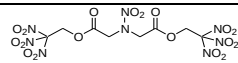
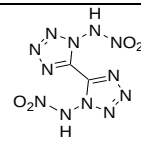
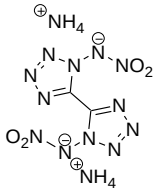
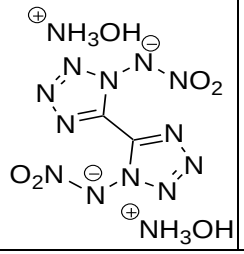
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
338	[96]		$C_6N_{12}O_8$	-28.6	50.0	1.82				2.033	710.0	1109.3	814.41	2.9407	9757	411	9443	425	8093	292	8540	8958	376	2.119	8376	312
342	[96]		$C_4N_8O_8$	0.0	38.9	1.95			2.127	2.085	550.9	295.8	291.93	2.7807	9859	448	9834	462	9443	414	9663	9700	441	2.106	9460	409
366	[96]		$C_6H_6N_8O_8$	-40.0	35.0	1.86			1.933	1.748	124.76	223.3	166.22	2.4573	8621	356	8328	321	8527	329	8430	8476	335	1.841	8798	338.7

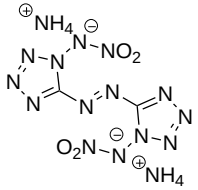
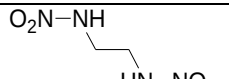
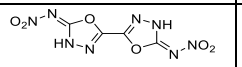
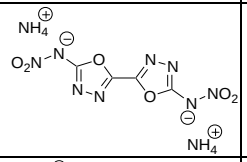
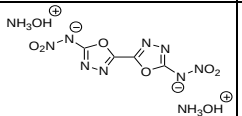
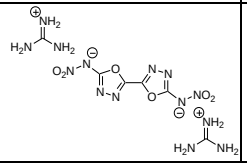
2.1.7 Acyclic Nitramines

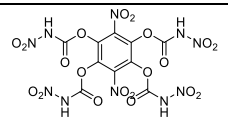
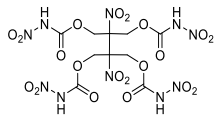
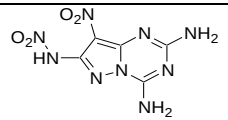
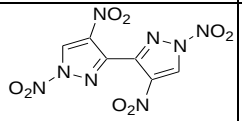
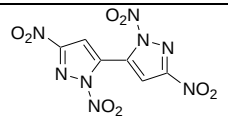
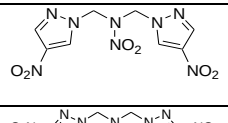
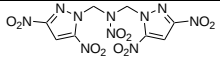
Table 18. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C-J)}$, heat of formation and density for the selected acyclic nitramines at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

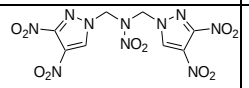
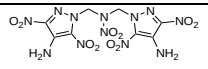
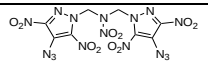
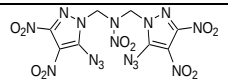
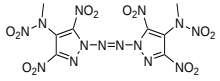
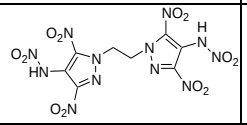
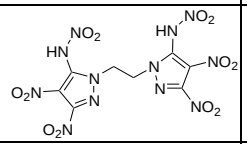
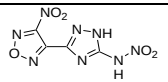
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
33	[36]		$C_6H_9N_5O_{13}$	-15.6	20.3	1.73			1.788	1.775	-614.8	-683.3	-869.55	2.6638	8307	333	8209	310	8495	312	8356	8434	318	1.781	8048	-

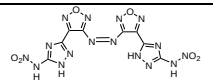
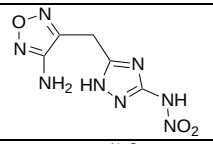
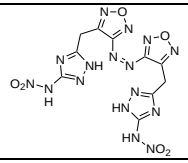
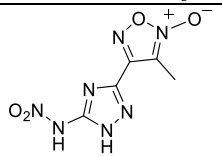
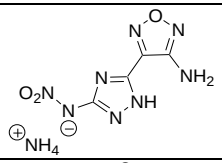
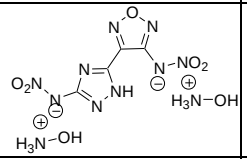
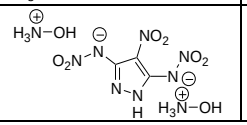
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
34	[36]		$C_{11}H_{17}N_{11}O_{25}$	-12.5	21.9	1.80			1.710	1.726	-637.8	-695.5	-1180.47	2.8060	9319	383	8384	326	8869	349	8622	8798	353	1.718	8550	328
54	[38]		$C_2HN_5O_9$*	30.1	29.3	1.87			2.017	1.937	-134.7	-78.2	-216.20	2.7474	9325	392	8176	307	9370	395	9506	9094	365	1.977	7503	230
66	[38]		$C_2H_6N_8O_8$	5.9	41.5	1.87			1.819	1.889	48.5	-- 179.6	75.67	2.3601	8393	345	9659	445	9636	421	9720	9352	404	1.854	8760	392
78	[50]		$C_5H_7N_5O_{10}$	-18.8	23.6	1.72			1.778	1.711	-463.1	-389.9	-472.89	2.5438	8337	313	8093	299	8150	287	8041	8155	300	1.744	7987	277
79	[50]		$C_7H_8N_8O_{16}$	-7.0	24.4	1.73			1.747	1.773	-398.4	-369.2	-446.39	2.7033	8775	338	8653	351	8503	313	8429	8590	334	1.760	8300	292
80	[50]		$C_5H_6N_8O_9$	-19.9	34.8	1.70		1.685		1.651	98.3	259.4	138.42	2.5785	8349	310	8707	356	8288	294	8363	8427	320	1.687	8285	291
81	[50]		$C_7H_8N_{10}O_{18}$	0.0	26.9	1.89			1.786	1.816	-292.8	-224.6	-389.62	2.8307	9754	428	9008	384	9212	387	9102	9269	400	1.762	9083	365

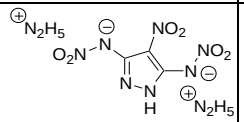
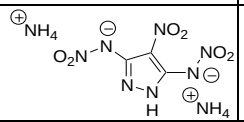
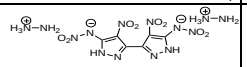
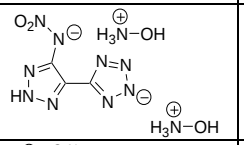
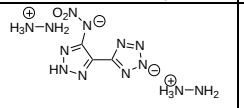
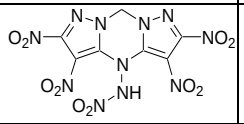
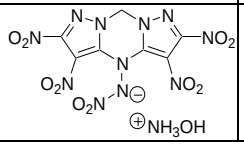
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
82	[50]		$C_6H_7N_5O_{12}$	-16.4	20.5	1.66			1.787	1.738	-824.5	-782.0	-840.91	2.5498	8130	291	7739	266	7671	248	7652	7798	268	1.762	7515	234
83	[50]		$C_8H_8N_8O_{18}$	-6.3	22.2	1.65			1.847	1.787	-777.5	-666.2	-814.41	2.7093	8475	306	8354	323	8014	270	8010	8213	300	1.817	7801	247
95	[53]		$C_8H_8N_8O_{18}$	-6.3	22.2	1.78			1.748	1.781	-691	-476.0	-700.32	2.7093	8987	360	8354	323	8506	319	8401	8562	334	1.764	8415	240
109	[56]		$C_2H_2N_{12}O_4$	-6.2	65.1	1.930			2.134	1.921	932.1	810.1	661.23	2.6561	9428	418	10855	557	9715	436	10282	10070	470	2.027	10142	456
110	[56]		$C_2H_8N_{14}O_4$	-21.9	67.1	1.795	1.724			1.705	647.7	997.8		2.8821	9497	391	10312	506	8173	296	8900	9220	398	1.715	9519	361
111	[56]		$C_2H_8N_{14}O_6$	-9.9	60.5	1.842	1.766			1.751	789.8	620.1		2.7619	9372	395	10556	529	9399	397	9778	9776	440	1.758	9885	418

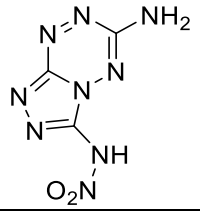
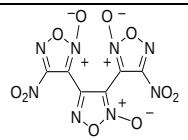
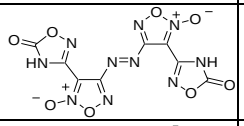
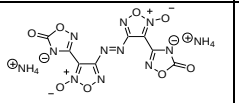
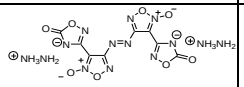
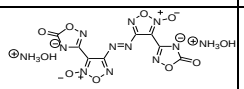
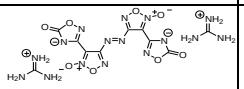
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
112	[56]		$C_2H_8N_{16}O_4$	-20.0	70.0	1.753	1.736			1.675	941.9	1263.4		2.9295	9442	379	10504	524	8778	336	9361	9521	413	1.706	9472	358
121	[26]		$C_2H_6N_4O_4$	-32.0	37.3	1.75			1.608	1.646	-103.8	-60.9	0.81	2.3055	7842	292	8309	319	8421	309	8380	8238	307	1.627	8336	299
123	[58]		$C_4H_2N_8O_6$	-18.6	43.4	1.98			1.981	1.849	278.6	190.5	66.11	2.3467	8731	387	8566	343	8941	375	9130	8842	368	1.915	9388	391
124	[58]		$C_4H_8N_{10}O_6$	-32.9	47.9	1.95	1.728			1.693	-71.8	408.8		2.7193	9685	438	8653	351	8467	333	8698	8876	374	1.711	9225	349
125	[58]		$C_4H_8N_{10}O_{10}$	-19.7	43.2	1.92	1.770			1.725	70.2	31.1		2.5991	9231	404	8968	381	8953	369	9042	9048	385	1.748	9186	341
126	[58]		$C_4H_{12}N_{14}O_6$	-51.0	52.1	1.79	1.670			1.686	-59.9	437.4		2.0511	7315	271	8386	326	7489	248	7931	7780	282	1.678	8027	248

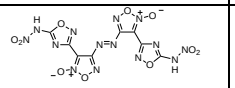
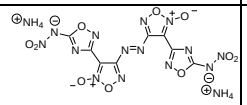
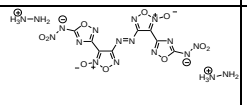
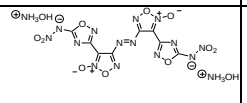
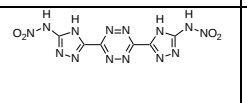
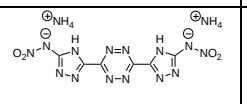
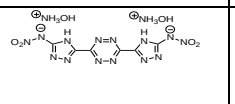
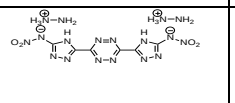
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
129	[60]		$C_{10}H_{14}N_6O_{12}$	-5.5	24.0	1.71			1.852	1.924	-1275	-1125.2	-854.39	2.3027	7701	278	8023	293	7629	250	7806	7790	274	1.888	7702	-
130	[60]		$C_{10}H_{16}N_6O_{12}$	-16.2	23.7	1.89			1.713	1.764	-1441.5	-1355.9	-1051.07	2.2739	8225	340	7846	276	8293	314	8190	8138	310	1.739	8298	-
136	[62]		$C_5H_5N_9O_4$	-53.3	49.4	1.89				1.825	314	331.0	439.87	2.2521	8165	336	8582	345	8004	292	8242	8248	324	-	8713	319
143	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.85			1.940	1.920	407.1	304.4	296.11	2.6255	9037	378	8908	375	8523	327	8631	8775	360	1.980	8869	345
144	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.855			1.940	1.920	444.1	304.4	296.11	2.6255	9057	380	8908	375	8578	332	8680	8806	362	1.980	8926	354
150	[65]		$C_8H_8N_8O_6$	-71.8	35.9	1.69			1.745	1.663	377.2	367.6	362.89	2.3759	7814	280	7486	242	7429	236	7445	7544	253	1.704	7867	251
151	[65]		$C_8H_6N_{10}O_{10}$	-35.8	34.8	1.789	1.78		1.847	1.801	388	350.8	311.60	2.5905	8680	343	8583	345	8234	299	8273	8442	329	1.824	8258	309

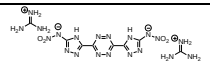
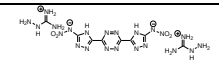
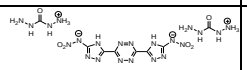
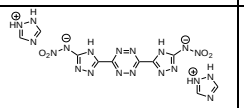
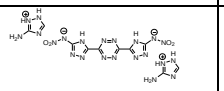
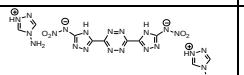
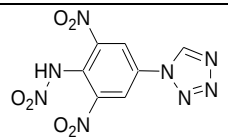
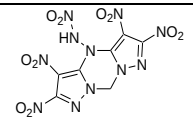
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
152	[65]		$C_8H_6N_{10}O_{10}$	-35.8	34.8	1.78			1.847	1.801	398	350.8	311.60	2.5905	8680	343	8583	345	8242	299	8280	8446	329	1.824	8265	310
153	[65]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.86			1.839	1.820	486.4	371.6	356.24	2.4305	8549	352	8753	361	8555	331	8575	8608	348	1.829	8639	347
154	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1108.2	1220.5	884.26	2.7399	9265	386	9339	415	8619	333	8880	9026	378	1.716	8717	351
155	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1118.7	1220.5	884.26	2.7399	9265	386	9339	415	8626	333	8886	9029	378	1.716	8724	352
168	[68]6		$C_8H_6N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	789.2	849.9	392.65	2.7653	9212	377	9200	402	8654	332	8790	8964	370	1.864	8834	346
184	[70]		$C_8H_6N_{12}O_{12}$	-24.2	36.4	1.84			1.877	1.862	380.6	305.2	317.31	2.5177	8711	357	9000	384	8588	331	8650	8737	357	1.869	8753	343
190	[70]		$C_8H_6N_{12}O_{12}$	-24.2	36.4	1.83			1.877	1.862	368.1	305.2	317.31	2.5177	8675	353	9000	384	8546	327	8615	8709	355	1.869	8710	337
197	[73]		$C_4H_2N_8O_5$	-26.4	46.3	1.851			1.996	1.881	524.66	322.8	289.91	2.4533	8578	352	9389	420	8648	337	8902	8879	370	1.938	9025	360

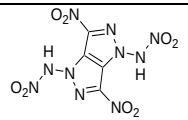
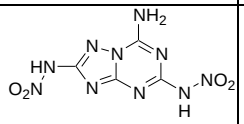
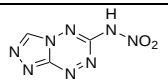
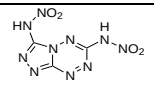
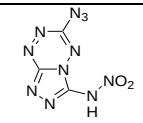
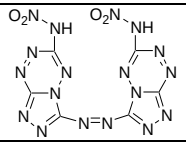
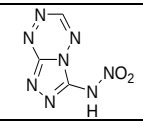
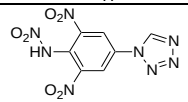
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
198	[73]		$C_8H_4N_{16}O_6$	-45.7	53.3	1.873			2.033	1.799	1274.4	1121.9	691.89	2.4727	8709	364	9045	388	8392	320	8719	8716	357	1.916	8973	349
199	[73]		$C_5H_6N_8O_3$	-70.8	49.5	1.695			1.832	1.692	449.0	364.6	313.82	2.1848	7361	258	7834	275	7456	238	7699	7588	257	1.762	8079	249
200	[73]		$C_{10}H_8N_{16}O_6$	-64.2	50.0	1.704			1.924	1.692	1206.2	1072.8	650.61	2.3103	7700	277	8314	320	7607	248	7890	7878	282	1.808	8125	260
201	[73]		$C_5H_5N_7O_4$	-59.9	43.2	1.741			1.932	1.750	443.8	321.3		2.3048	7810	289	8098	300	7873	269	7986	7942	286	1.841	8236	282
202	[73]		$C_5H_9N_9O_3$ *	-59.3	55.0	1.680	1.658			1.679	328.2	481.4		2.3790	7787	277	8386	326	7494	239	7872	7885	281	1.668	8130	246
203	[73]		$C_5H_{11}N_{11}O_7$	-27.2	47.7	1.850	1.736			1.723	327.3	190.7		2.4791	8032	290	9478	428	8286	292	8505	8575	337	1.730	9135	366
204	[74]		$C_2H_9N_9O_8$	-13.4	42.1	1.90	1.757			1.757	95.7	-165.2		2.3991	8603	364	9719	451	9368	402	9370	9265	406	1.757	9394	400

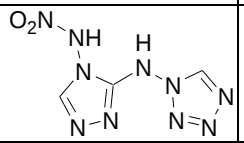
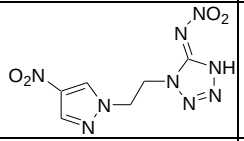
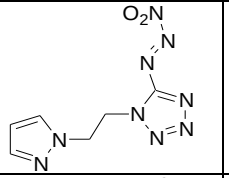
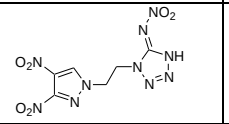
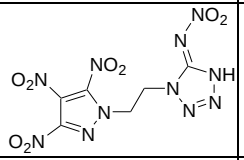
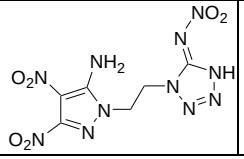
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
205	[74]		$C_3H_{10}N_{11}O_8$	-29.6	51.8	1.87	1.684			1.721	300.2	138.2		2.1591	7847	314	9570	437	9061	373	9198	8919	375	1.703	9581	385
206	[74]		$C_3H_9N_9O_7$	-27.0	47.2	1.80	1.710			1.707	-22.7	260.0		2.5193	8569	341	9451	426	8479	319	8666	8791	362	1.708	8842	326
207	[74]		$C_6H_{12}N_{14}O_8$	-39.2	48.0	1.85	1.707			1.757	498.0	297.5		2.1311	7709	303	9139	397	8654	338	8765	8567	346	1.732	9118	352
208	[74]		$C_3H_9N_{11}O_4$*	-39.5	58.5	1.82	1.672			1.644	434.3	532.5		2.4331	8414	337	9342	416	8591	330	8900	8812	361	1.658	9282	348
209	[74]		$C_2H_{11}N_{13}O_2$*	-58.2	69.7	1.71	1.588			1.608	663.4	651.9		2.1931	7429	264	8285	317	8006	276	8524	7986	270	1.598	9022	301
217	[75]		$C_7H_3N_{11}O_{10}$	-21.9	38.4	1.937			2.037	1.972	521.6	399.0	441.47	2.5989	9295	412	9127	396	8890	366	8989	9075	391	2.005	9226	388
218	[75]		$C_7H_6N_{12}O_{11}$	-22.1	38.7	1.87	1.821			1.897	573.1	533.9		2.6518	9185	391	9183	401	8894	359	8960	9056	384	1.859	9034	371

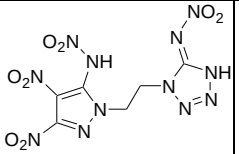
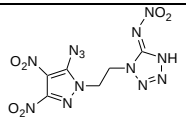
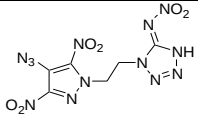
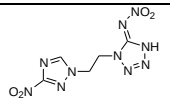
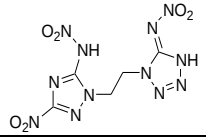
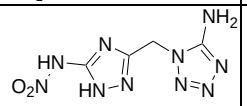
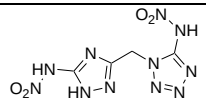
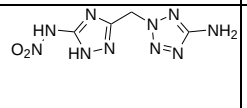
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
239	[81]		$C_2H_3N_9O_2$	-44.6	64.0	1.79			2.050	1.804	634.3	625.7	546.64	2.4274	8293	324	9288	411	8175	295	8694	8612	343	1.927	8763	313
244	[83]		$C_6N_8O_{10}$	-9.3	32.6	1.914				2.062	579.2	161.4		2.8593	9932	444	9213	404	9106	381	9228	9370	410	-	9503	408
245	[84]		$C_8H_5N_{18}O$	-39.3	38.3	1.90				1.925	633.44	313.9		2.6179	9207	399	7922	283	8368	321	8485	8496	334	-	8891	347
246	[84]		$C_8H_{11}N_{12}O_8$	-48.0	42.0	1.65	1.743			1.762	534.88	560.1		2.8439	8798	323	7946	285	7647	246	7647	8058	285	1.752	8234	273
247	[84]		$C_8H_{10}N_{14}O_8$	-48.3	45.6	1.71	1.723			1.768	887.15	295.6		2.4837	8151	301	8700	356	8099	282	8255	8301	313	1.746	8453	293
248	[84]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.72	1.773			1.794	666.58	-7.8		2.7237	8787	337	8206	310	8234	293	8326	8388	313	1.784	8445	307
249	[84]		$C_{11}H_{12}N_{16}O_8$	-59.5	46.3	1.65	1.695			1.744	504.79	398.5		2.1757	7196	242	7892	280	6871	198	7293	7313	240	1.720	8150	267

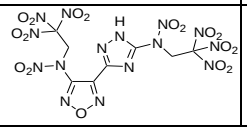
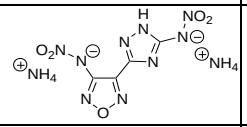
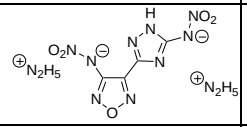
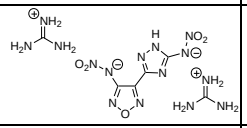
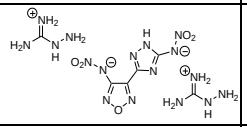
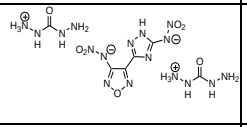
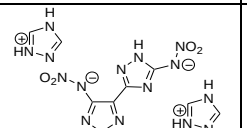
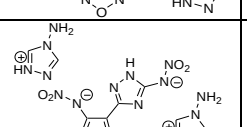
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
250	[84]		$C_8H_8N_{14}O_{10}$	-24.7	43.2	1.92			2.112	2.013	1241.13	840.9		2.7927	9771	436	9027	386	9028	375	9235	9265	399	2.062	9505	413
251	[84]		$C_8H_8N_{16}O_{10}$	-32.8	45.9	1.66	1.782			1.778	1060.87	905.9		3.0187	9261	348	8997	383	8134	279	8386	8694	337	1.780	8357	289
252	[84]		$C_8H_{16}N_{18}O_{10}$	-34.0	48.6	1.74	1.763			1.782	1187.52	669.3		2.6585	8701	336	9115	394	8451	310	8677	8736	347	1.772	8860	319
253	[84]		$C_8H_8N_{16}O_{12}$	-24.6	43.1	1.72	1.805			1.804	1405.62	528.2		2.8985	9224	360	9137	396	8717	328	8895	8993	361	1.804	8846	343
272	[91]		$C_8H_4N_{14}O_4$	-47.6	58.3	1.88			2.044	1.781	1336.0	1220.8	828.13	2.3467	8390	347	9171	400	8660	341	9027	8812	363	1.913	9100	317
274	[91]		$C_8H_{16}N_{16}O_4$	1.657	60.5	1.79	1.674			1.640	996.0	1190.7		2.5727	8671	345	8897	374	8145	293	8512	8556	337	1.657	8898	311
275	[91]		$C_8H_{16}N_{16}O_6$	-43.8	55.7	1.81	1.711			1.645	1468.2	816.1		2.4525	8430	336	9244	406	8908	353	9142	8931	365	1.678	9267	378
276	[91]		$C_8H_{12}N_{18}O_4$	-56.0	63.0	1.78	1.657			1.654	1361.5	1214.6		2.2125	7702	290	8989	383	8412	312	8765	8467	328	1.655	9214	337

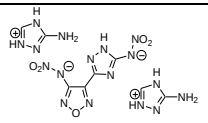
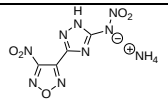
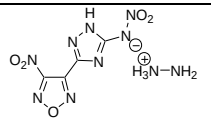
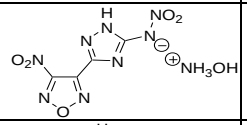
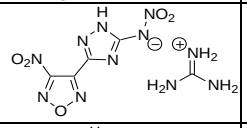
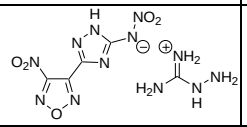
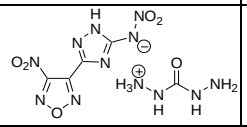
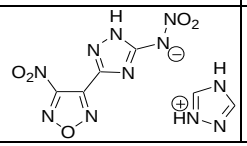
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
277	[91]		$C_8H_{14}N_{20}O_4$	-66.9	61.7	1.84	1.636			1.644	947.3	1127.3		1.9045	7072	265	8564	343	7848	277	8260	7936	295	1.640	8978	309
278	[91]		$C_8H_{16}N_{22}O_4$	-66.1	63.6	1.79	1.624			1.656	1360	1243.2		1.7445	6517	227	8660	352	8032	285	8420	7907	288	1.640	8963	318
279	[91]		$C_8H_{16}N_{22}O_6$	-55.8	59.7	1.82	1.657			1.678	1312.9	1198.4		1.8245	6805	247	9033	387	8350	311	8654	8210	315	1.667	8978	334
280	[91]		$C_{10}H_{10}N_{20}O_4$	-70.8	59.1	1.85	1.677			1.676	1581.4	1578.3		2.2643	8067	323	8375	325	8002	289	8330	8194	312	1.676	8925	318
281	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.84	1.664			1.697	1791.1	1694.2		2.1043	7606	295	8479	335	8122	296	8461	8167	309	1.680	8976	336
282	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.85	1.664			1.686	1497.5	1694.2		2.3045	8175	329	8479	335	7934	284	8309	8224	316	1.675	8966	323
294	[92]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	449.9	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.818	8202	280
334	[96]		$C_7H_9N_{11}O_{10}$	-21.9	38.4	1.94			2.037	1.972	521.5	521.7	441.47	2.5989	9306	413	9127	396	8900	367	8997	9082	392	2.005	9226	388

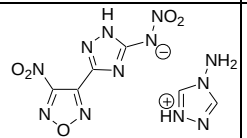
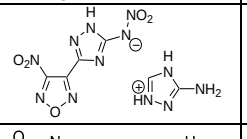
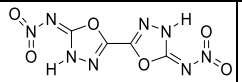
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
344	[96]		$C_4H_2N_{10}O_8$	-5.0	44.0	1.93			2.000	2.042	595.2	270.7	398.87	2.6207	9329	412	9933	471	9363	405	9594	9555	429	2.021	9507	418
346	[96]		$C_4H_4N_{10}O_4$	-37.5	54.7	1.84			1.980	1.856	544.9	500.7	524.45	2.3534	8272	333	9345	416	8368	315	8721	8676	355	1.918	8787	342
351	[96]		$C_2H_2N_8O_2$	-43.9	61.5	1.76			2.076	1.782	675.1	567.8	524.32	2.5074	8392	324	9344	416	8182	293	8678	8649	344	1.929	8621	304
352	[96]		$C_3H_4N_{10}O_4$	-19.8	57.9	1.91			2.078	1.890	740.9	709.3	555.56	2.5347	9014	390	10102	487	9086	379	9517	9430	419	1.984	9301	383
357	[96]		$C_3HN_{11}O_2$	-32.3	69.1	1.85		1.456	2.196	1.782	951.8	1056.3	810.65	2.5821	8921	371	10187	494	8591	333	9255	9238	399	1.619	9236	363
358	[96]		$C_6H_2N_{16}O_4$	-36.9	64.6	1.85			2.158	1.805	2037.8	1595.0	1116.25	2.7955	9494	404	9816	460	6522	192	7846	8420	352	1.982	9500	398
360	[96]		$C_2H_2N_8O_2$	-43.9	61.5	1.81			2.076	1.782	647.8	659.7	524.32	2.5074	8574	344	9344	416	8292	306	8775	8746	355	1.929	8800	332
389	[99]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	541.8	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.755	8208	280

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
399	[99]		$C_3H_4N_{10}O_2$	-45.3	66.0	1.78			2.027	1.777	923.3	787.3	630.03	2.4475	8310	323	9240	406	8591	325	9065	8802	351	1.902	9141	336
402	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.65			1.818	1.649	463	602.4	405.89	2.3711	7665	266	7941	285	7337	226	7571	7628	259	1.734	7824	231
403	[99]		$C_6H_7N_{10}O_4$	-91.1	53.2	1.50			1.827	1.509	522.3	818.5	475.60	2.3912	7192	218	6873	185	6435	164	6895	6849	189	1.668	7041	163
411	[99]		$C_6H_6N_{10}O_6$	-45.8	44.6	1.69			1.873	1.735	485.6	594.0	383.66	2.4784	8066	293	8689	355	7814	261	8031	8150	303	1.804	8114	267
414	[99]		$C_6H_5N_{11}O_8$	-29.0	42.9	1.77			1.914	1.788	516.3	585.6	361.43	2.4391	8253	318	9155	398	8337	305	8529	8568	340	1.851	8555	316
415	[99]		$C_6H_7N_{11}O_6$	-46.2	46.8	1.76			2.045	1.731	455.8	556.9	405.98	2.2518	7738	289	8778	363	7990	279	8201	8177	310	1.888	8388	288

		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
416	[99]		$C_6H_6N_{12}O_8$	-29.9	44.9	1.84			1.907	1.791	501.8	579.1	414.90	2.3591	8287	334	9224	405	8534	327	8712	8689	355	1.849	8804	342
418	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.81		1.544	1.971	1.453	812.5	1082.5	669.99	2.4065	8309	329	9209	403	8336	309	8634	8622	347	1.498	8748	327
419	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.78		1.544	1.971	1.724	844.4	1082.5	669.99	2.4065	8204	318	9209	403	8270	301	8579	8566	341	1.634	8659	318
425	[99]		$C_5H_6N_{10}O_4$	-53.3	51.8	1.66			1.892	1.663	476.8	629.5	459.32	2.3258	7590	264	8668	353	7534	240	7887	7920	286	1.777	8113	256
426	[99]		$C_6H_6N_{12}O_6$	-33.9	50.9	1.69			1.927	1.753	511.5	709.7	490.56	2.3531	7758	277	9346	416	7947	270	8299	8338	321	1.840	8690	322
427	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.71			1.919	1.699	476.2	659.1	557.65	2.2662	7611	273	8236	312	7406	236	7929	7796	274	1.809	8187	249
428	[99]		$C_4H_5N_{11}O_4$	-38.4	56.8	1.81			1.966	1.785	285.0	742.7	566.57	2.3735	8222	324	9388	420	7847	274	8356	8453	339	1.875	8750	318
429	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.72			1.919	1.699	462.8	659.1	557.65	2.2662	7644	277	8236	312	7411	237	7937	7807	275	1.809	8213	252

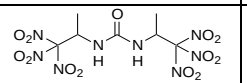
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
435	[101]		$C_8H_5N_{15}O_{17}$	-4.1	36.0	1.932			1.920	1.891	648.95	446.6	206.88	2.8925	10100	458	9560	436	9383	407	9455	9624	434	1.905	9355	401
436	[101]		$C_4H_9N_{11}O_5$	-41.2	52.9	1.822	1.691			1.676	246.19	473.3		2.5993	8861	362	9163	399	8274	306	8549	8712	356	1.683	8897	319
437	[101]		$C_4H_{11}N_{13}O_5$	-42.3	56.7	1.834	1.669			1.691	616.05	589.2		2.2391	7947	313	9281	410	8716	341	8949	8723	355	1.680	9045	349
438	[101]		$C_6H_{13}N_{15}O_5$	-57.6	56.0	1.659	1.641			1.673	249.08	501.9		1.9311	6635	215	8748	360	7260	222	7740	7596	266	1.657	7942	229
439			$C_8H_{15}N_{17}O_5$	-57.2	58.8	1.679	1.627			1.685	656.43	571.8		1.7711	6301	201	8872	372	7723	254	8109	7751	276	1.656	8455	265
440	[101]		$C_8H_{15}N_{17}O_7$	-45.7	54.5	1.687	1.665			1.710	607.27	527.0		1.8511	6517	213	9198	402	8000	273	8300	8004	296	1.688	8159	277
441			$C_8H_9N_{15}O_5$	-62.7	53.2	1.780	1.691			1.711	833.73	906.9		2.2909	7905	301	8466	334	7763	266	8055	8047	300	1.701	8341	264
442	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.761	1.674			1.721	1103.75	1068.9		2.3311	7945	300	8604	347	7934	276	8233	8179	308	1.698	8642	291

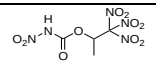
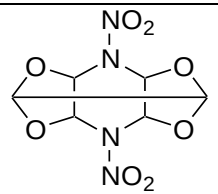
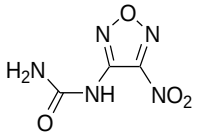
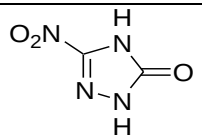
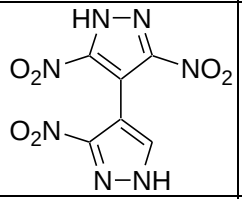
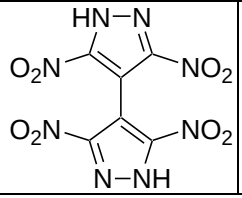
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
443	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.752	1.674			1.735	804.55	1068.9		2.1309	7405	269	8604	347	7640	255	8006	7914	290	1.704	8373	268
444	[101]		$C_4H_5N_9O_5$	-34.0	48.6	1.815	1.763			1.761	349.86	415.1		2.5663	8748	354	8998	384	8371	312	8610	8682	350	1.762	8716	326
445	[101]		$C_4H_6N_{10}O_5$	-35.0	51.1	1.847	1.746			1.766	519.39	473.0		2.3862	8384	340	9297	411	8677	339	8892	8812	363	1.756	9060	358
446	[101]		$C_4H_5N_9O_6$	-26.2	45.8	1.844	1.785			1.757	402.73	273.8		2.5062	8695	357	9383	419	8747	344	8913	8934	373	1.771	8954	357
447	[101]		$C_5H_7N_{11}O_5$	-45.2	51.2	1.677	1.722			1.746	309.89	429.4		2.2322	7419	258	8964	380	7576	244	7951	7978	294	1.734	7990	247
448	[101]		$C_5H_8N_{12}O_5$	-45.5	53.2	1.670	1.709			1.751	502.18	441.3		2.1522	7202	246	9033	387	7771	256	8120	8032	296	1.730	8187	258
449	[101]		$C_5H_8N_{12}O_6$	-38.5	50.6	1.676	1.730			1.765	468.58	464.9		2.1922	7319	252	9196	402	7932	267	8238	8171	307	1.748	8256	270
450	[101]		$C_6H_5N_{11}O_5$	-48.8	49.5	1.720	1.751			1.770	620.12	654.9		2.4121	8008	296	8778	363	7773	261	8084	8161	307	1.760	8197	271

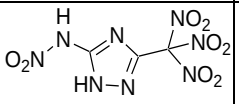
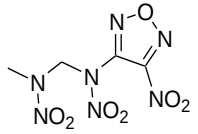
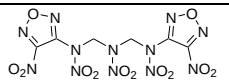
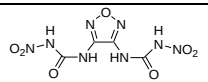
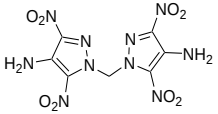
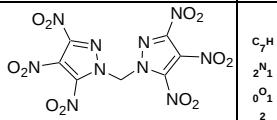
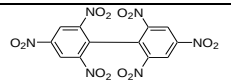
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
451	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.748	1.737			1.774	719.34	712.8		2.4322	8157	309	8853	370	7962	276	8261	8308	318	1.756	8424	288
452	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.716	1.737			1.784	570.70	712.8		2.3321	7795	284	8853	370	7697	255	8048	8098	303	1.760	8151	263
453	[102]		$C_4H_2N_8O_6$	-18.6	43.4	1.99			1.981	1.849	159.8	313.1	66.11	2.3467	8765	392	8566	343	8790	363	9006	8782	366	1.915	9457	403.9

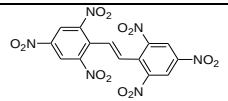
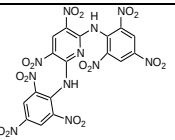
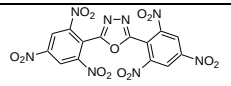
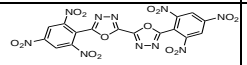
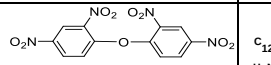
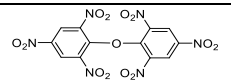
2.1.8 Molecules containing nitro groups

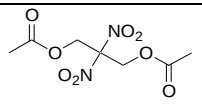
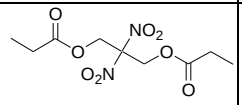
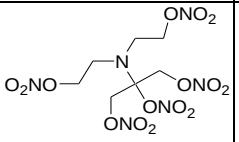
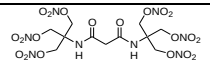
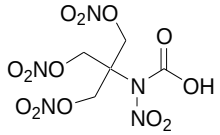
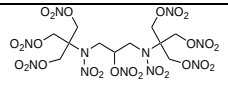
Table 19. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C-J)}$, heat of formation and density for the selected molecules containing nitro groups at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

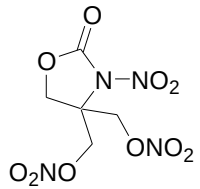
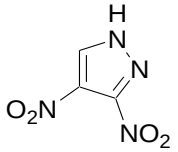
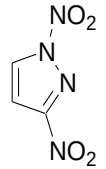
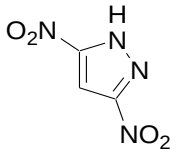
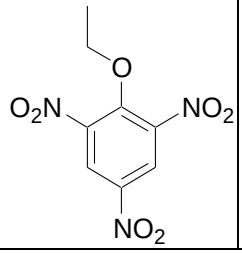
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
1	[22]		$C_7H_{10}N_8O_{13}$	-23.2	27.1	1.82			1.697	1.712	-367	-379.3	-354.36	2.3759	8263	328	8400	328	8547	326	8388	8399	327	1.704	8469	321

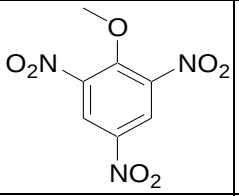
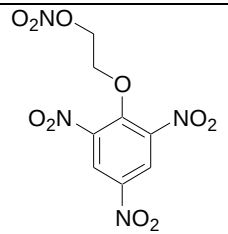
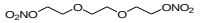
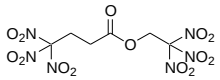
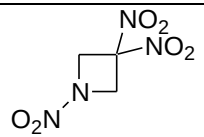
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
2	[22]		$C_4H_5N_5O_{10}$	-2.8	24.7	1.58			1.747	1.792	-368	-332.1	-431.07	2.5249	7777	259	8582	345	7953	259	8006	7912	259	1.770	7680	228
3	[23] [24]		$C_6H_6N_4O_8$	-42.7	21.4	1.985			1.769	2.007	-541	-35.5	-372.31	2.3697	8822	394	6896	187	8139	311	7832	8092	319	1.888	8615	343
4	[25]		$C_3H_3N_5O_4$	-32.4	40.5	1.68			1.862	1.811	63	-134.6	49.68	2.2660	7511	263	8516	339	7751	255	7979	7939	286	1.837	7759	236
5	[23] [26]		$C_2H_2N_4O_3$	-24.6	43.1	1.916			1.900	1.882	-97	-163.7	48.90	2.2799	8327	351	8753	361	8081	300	8396	8389	337	1.891	8543	305
6	[27]		$C_6H_3N_7O_6$	-44.6	36.4	1.855			1.897	1.854	224.9	141.1	277.16	2.3180	8228	333	8365	324	8019	290	7997	8123	313	1.876	8256	286
7	[27]		$C_6H_2N_8O_8$	-25.5	35.7	1.820			1.940	1.927	227.8	132.6	254.93	2.4253	8394	336	8908	375	8232	303	8379	8478	338	1.933	8520	311

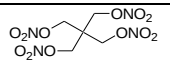
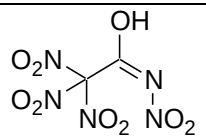
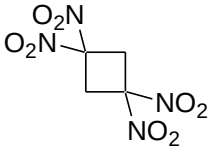
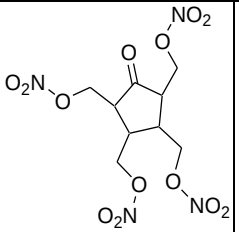
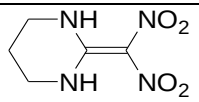
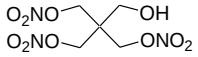
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionics	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
9	[28]		$C_3H_2N_8O_8$	5.8	40.3	1.91			2.064	1.957	269	278.6	173.26	2.5007	8920	384	9750	454	9397	406	9580	9409	414	2.010	9250	369
10	[29]		$C_4H_5N_7O_7$	-21.3	37.3	1.74			1.921	1.767	265	172.9	83.91	2.5524	8433	322	9184	401	8579	320	8644	8710	348	1.844	8596	322
11	[29]		$C_6H_4N_{12}O_{12}$	-7.3	38.5	1.90			1.932	1.884	603	391.8	195.66	2.8731	9912	440	9600	440	9248	392	9364	9531	424	1.908	9334	393
16	[25]		$C_4H_2N_8O_7$	-17.4	34.1	1.87			1.892	1.875	-22	-183.9	116.31	2.1793	7901	317	8908	375	8487	327	8671	8492	340	1.883	8685	322
17	[31]		$C_7H_6N_{10}O_8$	-40.2	39.1	1.802			1.858	1.838	205	224.0	320.11	2.3843	8223	323	8642	350	8016	285	8132	8253	319	1.848	8332	296
18	[31]		$C_7H_2N_{10}O_{12}$	-11.5	33.5	1.934			1.941	1.933	379	186.3	231.01	2.7589	9733	437	9201	402	9029	377	9094	9264	405	1.937	9304	391
19	[32] [26]		$C_{12}H_4N_4$	-52.8	19.8	1.694			1.797	1.776	61.1	100.3	48.67	2.2869	7609	270	7314	226	7355	231	7298	7394	242	1.786	7500	244

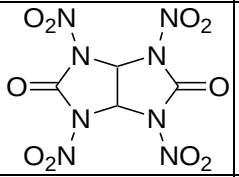
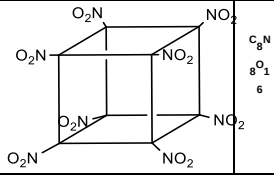
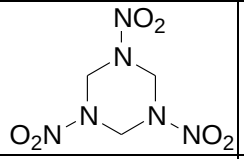
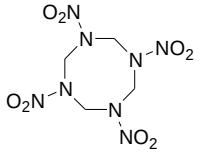
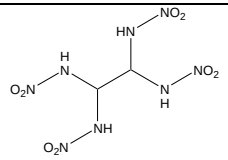
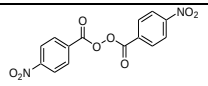
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
			$C_6H_2O_{12}$																								
20	[32]		$C_{14}H_6N_6O_{12}$	-67.5	18.7	1.74			1.749	1.704	78.2	200.8	86.64	2.1317	7369	266	6830	181	7276	230	7116	7148	226	1.727	7612	243
21	[32]		$C_{17}H_7N_{11}O_{16}$	-55.4	24.8	1.757			1.813	1.776	43.7	208.3	265.80	2.1310	7420	271	7462	240	7421	241	7379	7420	251	1.794	7757	251
22	[32] [33]		$C_{14}H_4N_8O_{13}$	-55.3	22.8	1.77			1.831	1.779	266.55	232.1	114.41	2.3729	8083	309	7350	230	7543	250	7478	7614	263	1.805	7840	279
23	[32]		$C_{16}H_4N_{10}O_{14}$	-57.1	25.0	1.837			1.857	1.781	197.6	409.9	180.15	2.4589	8543	347	7377	232	7547	256	7486	7738	278	1.819	8030	273
24	[34]		$C_{12}H_6N_4O_9$	-82.2	16.0	1.689			1.606	1.667	-168.1	55.1	-39.09	2.1123	7290	260	6277	130	6827	202	6623	6754	197	1.637	6582	168
25	[34]		$C_{12}H_4N_6O_{13}$	-47.3	19.1	1.70			1.710	1.792	-132.9	-69.0	-83.55	2.3269	8201	329	7449	239	7794	273	7617	7765	280	1.746	7634	250

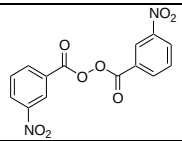
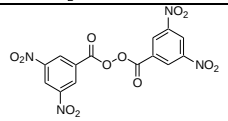
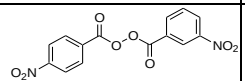
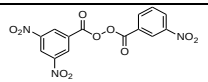
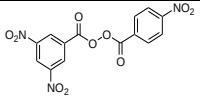
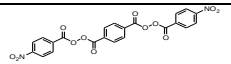
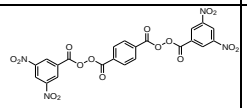
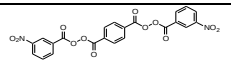
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
29	[35]		$C_7H_{10}N_2O_8$*	-70.3	11.2	1.33			1.423	1.478	-872	-- 810.8	-684.66	2.2339	6297	154	5396	47	5796	122	5916	5851	108	1.347	5683	100
30	[35]		$C_9H_{14}N_2O_8$*	-97.8	10.1	1.22			1.309	1.386	-926	-859.9	-725.94	2.0715	5652	116	4641	-23	5224	93	5435	5238	93	1.348	5111	75
31	[36]		$C_7H_{12}N_6O_{15}$	-29.5	20.0	1.69			1.602	1.632	-530.6	-543.4	-843.93	2.6015	8368	309	8008	291	8393	301	8158	8232	300	1.617	8059	-
32	[36]		$C_{11}H_{16}N_8O_{20}$	-27.8	19.3	1.67			1.606	1.632	-1044.4	-1024.8	-1095.99	2.3383	7654	269	7548	248	7911	265	7726	7710	261	1.619	7891	-
33	[36]		$C_6H_9N_5O_{13}$	-15.6	20.3	1.73			1.788	1.775	-614.8	-683.3	-869.55	2.6638	8307	333	8209	310	8495	312	8356	8434	318	1.781	8048	-
34	[36]		$C_{11}H_{17}N_{11}O_{25}$	-12.5	21.9	1.80			1.710	1.726	-637.8	-695.5	-1180.47	2.8060	9319	383	8384	326	8869	349	8622	8798	353	1.718	8550	328

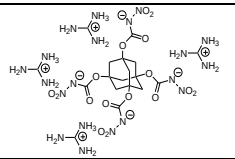
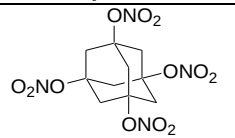
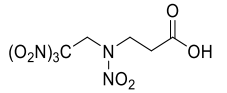
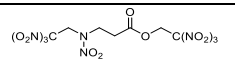
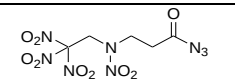
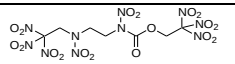
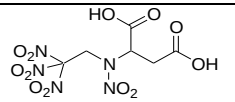
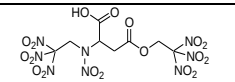
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
35	[36]		$C_5H_6N_4O_{10}$	-17.0	19.9	1.84			1.775	1.780	-752.4	-318.5	-314.69	2.5237	8727	358	7679	260	8165	300	8008	8145	306	1.777	8266	313
36	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.79			1.874	1.849	124.3	29.3	117.27	2.3460	8082	313	8824	301	8257	226	8336	8375	327	1.861	8426	306
37	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8459	308
38	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.78			1.874	1.849	73.2	29.3	117.27	2.346	8048	309	8824	367	8113	290	8215	8300	322	1.861	8279	289
39	[26]		$C_8H_7N_3O_7$	-77.8	16.3	1.554			1.590	1.590	-154.5	-222.2	-170.83	2.1544	6845	210	6303	132	6741	184	6598	6622	175	1.590	6545	191

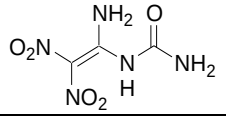
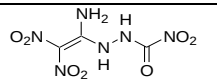
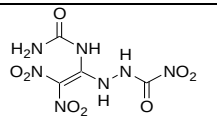
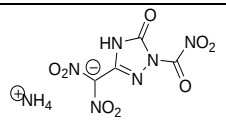
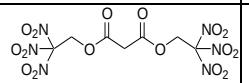
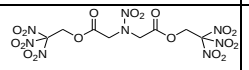
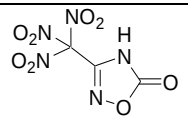
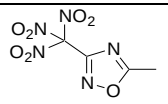
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
40	[38]		$C_7H_5N_3O_7$	-62.5	17.3	1.7			1.665	1.665	-187.2	-197.6	-150.19	2.2356	7502	266	6800	178	7263	226	7059	7156	223	1.665	7035	204
41	[38]		$C_8H_6N_4O_{10}$	-45.3	17.6	1.723			1.684	1.707	-277.4	-277.3	-313.81	2.3017	7742	282	7290	224	7684	255	7476	7548	254	1.696	7470	237
44	[38]		$C_6H_{12}N_2O_8$	-66.6	11.7	1.344			1.273	1.452	-656.9	-605.8	-717.57	2.3007	6473	164	5848	90	6468	153	6354	6286	136	1.362	6498	143
45	[38]		$C_6H_6N_6O_{14}$	-4.1	21.8	1.78			1.748	1.780	-421.7	-516.8	-482.52	2.6571	8852	353	8537	340	8658	330	8534	8645	341	1.764	8616	335
48	[41]		$C_3H_4N_4O_6$	-16.7	29.2	1.841			1.935	1.823	62.2	16.2	-8.72	2.5189	8718	358	8676	354	9047	368	8905	8836	360	1.879	8947	365

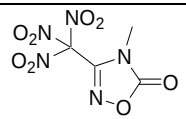
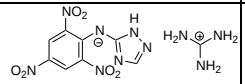
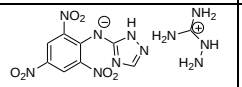
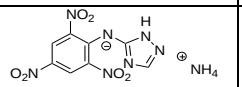
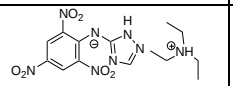
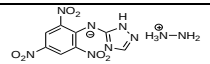
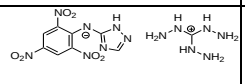
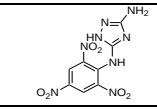
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
51	[44]		$C_5H_8N_4O_{12}$	-10.1	17.7	1.76			1.768	1.706	-538.48	-497.1	-727.20	2.5965	8620	336	8077	298	8652	328	8375	8431	321	1.737	8525	316
54	[38]		$C_2HN_5O_9$*	30.1	29.3	1.87			2.017	1.937	-134.7	-78.2	-216.20	2.7474	9325	392	8176	307	9370	395	9506	9094	365	1.977	7503	230
55	[38]		$C_4H_4N_4O_8$	-13.6	23.7	1.83			1.837	1.819	-84	124.6	-92.15	2.5249	8730	359	8575	344	8873	354	8696	8718	352	1.828	8646	339
56	[38]		$C_5H_{12}N_4O_{13}$	-45.8	-8.3	1.55			1.486	1.622	-676.2	-698.4	-892.82	2.3261	7219	227	6786	177	7308	216	7108	7105	207	1.554	7518	203
59	[47]		$C_5H_8N_4O_4$	-85.0	29.8	1.65			1.618	1.567	61.8	-80.6	159.51	2.0763	6958	230	6292	131	7331	226	7163	6936	196	1.593	7906	232
60	[38]		$C_5H_9N_3O_{10}$	-26.6	15.5	1.54			1.622	1.642	-560.7	-629.2	-736.45	2.4892	7550	241	7540	248	7683	237	7484	7564	242	1.632	7777	253

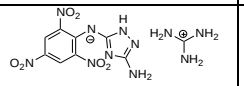
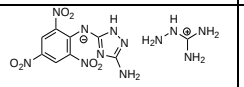
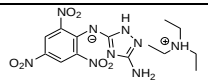
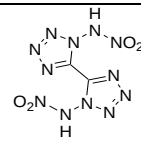
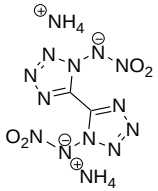
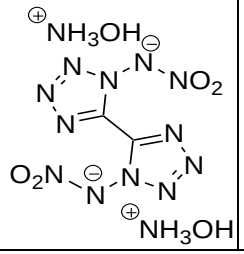
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
61	[38]		$C_4H_2N_8O_{10}$*	5.0	34.8	2.04			2.035	2.065	41.8	-76.1	-30.47	2.7069	10004	479	8856	370	9548	434	9617	9506	428	2.050	9946	402
62	[38]		$C_8N_8O_{16}$	0.0	24.1	1.979			2.013	2.202	413.8 594	407.3	585.82	2.6581	9623	441	8928	377	9469	420	9443	9366	413	2.107	9562	422
64	[26]		$C_3H_6N_6O_6$	-21.6	37.8	1.806			1.843	1.797	86.3	40.2	77.92	2.5591	8237	341	8940	378	8771	340	8765	8773	353	1.820	8882	340
65	[38]		$C_4H_8N_8O_8$	-21.6	37.8	1.903			1.843	1.782	92.8	65.1	81.13	2.6053	9184	398	9042	388	9149	384	9077	9113	390	1.812	9286	381
66	[38]		$C_2H_6N_8O_8$	5.9	41.5	1.87			1.819	1.889	48.5	-- 179.6	75.67	2.3601	8393	345	9659	445	9636	421	9720	9352	404	1.854	8760	392
67	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.61			1.566	1.547	-415	-353.4	-370.27	1.8697	6354	194	4197	-64	5752	137	5577	5470	134	1.556	6129	130

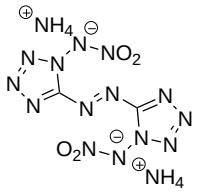
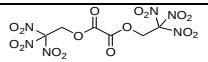
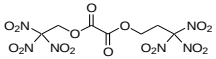
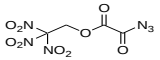
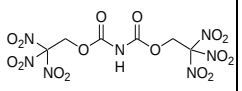
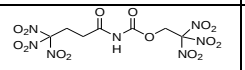
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
68	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.608			1.566	1.547	-406	-- 353.4	-370.27	1.8697	6354	194	4197	-64	5757	137	5582	5471	134	1.556	6130	130
69	[48]		$C_{14}H_6N_4O_{12}$	-72.0	13.3	1.718			1.701	1.686	-410	-358.0	-414.73	2.0843	7183	252	5893	94	6853	202	6662	6648	183	1.694	7087	200
70	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.67			1.566	1.547	-404	-353.4	-370.27	1.8697	6517	211	4197	-64	5909	148	5657	5570	148	1.556	6395	90
71	[48]		$C_{14}H_7N_3O_{10}$	-91.2	11.1	1.70			1.642	1.622	-405	-361.8	-392.50	1.9770	6863	233	5158	25	6451	178	6219	6173	145	1.632	6796	180
72	[48]		$C_{14}H_7N_3O_{10}$	-91.2	11.1	1.69			1.642	1.622	-405	-361.8	-392.50	1.9770	6835	230	5158	25	6425	176	6204	6156	144	1.632	6757	170
73	[48]		$C_{22}H_{12}N_2O_{12}$	-122.5	5.6	1.46			1.545	1.532	-761	-604.1	-776.91	1.5699	5310	128	3642	-116	5179	104	5189	4830	58	1.538	5315	90
74	[48]		$C_{22}H_{10}N_4O_{16}$	-90.1	9.6	1.51			1.646	1.631	-752	-620.9	-821.37	1.7845	5895	160	4929	4	5897	138	5882	5651	101	1.639	6007	130
75	[48]		$C_{22}H_{12}N_2O_{12}$	-122.5	5.6	1.45			1.545	1.532	-752	-604.1	-776.91	1.5699	5288	126	3642	-116	5980	138	5910	5205	74	1.538	5284	90

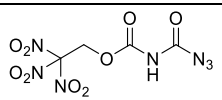
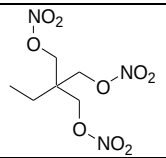
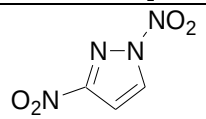
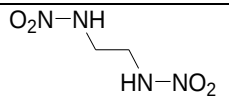
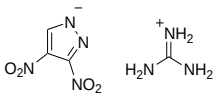
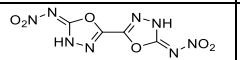
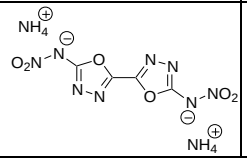
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
76	[49]		$C_{18}H_{44}N_{20}O_{16}$*	-84.4	35.2	1.54	1.551			1.561	-1628	-1313.0		0.8429	3538	68	6836	182	6308	160	6589	5900	137	1.556	6809	159
77	[49]		$C_{10}H_{12}N_4O_{12}$	-58.9	14.7	1.659			1.534	1.705	-581	-446.9	-568.79	2.2121	7348	253	6556	156	7435	234	7121	7115	214	1.619	7282	229
78	[50]		$C_5H_7N_5O_{10}$	-18.8	23.6	1.72			1.778	1.711	-463.1	-389.9	-472.89	2.5438	8337	313	8093	299	8150	287	8041	8155	300	1.744	7987	277
79	[50]		$C_7H_8N_8O_{16}$	-7.0	24.4	1.73			1.747	1.773	-398.4	-369.2	-446.39	2.7033	8775	338	8653	351	8503	313	8429	8590	334	1.760	8300	292
80	[50]		$C_5H_6N_8O_9$	-19.9	34.8	1.70		1.685		1.651	98.3	259.4	138.42	2.5785	8349	310	8707	356	8288	294	8363	8427	320	1.687	8285	291
81	[50]		$C_7H_8N_{10}O_{18}$	0.0	26.9	1.89			1.786	1.816	-292.8	-224.6	-389.62	2.8307	9754	428	9008	384	9212	387	9102	9269	400	1.762	9083	365
82	[50]		$C_6H_7N_5O_{12}$	-16.4	20.5	1.66			1.787	1.738	-824.5	-782.0	-840.91	2.5498	8130	291	7739	266	7671	248	7652	7798	268	1.762	7515	234
83	[50]		$C_8H_8N_8O_{18}$	-6.3	22.2	1.65			1.847	1.787	-777.5	-666.2	-814.41	2.7093	8475	306	8354	323	8014	270	8010	8213	300	1.817	7801	247

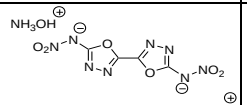
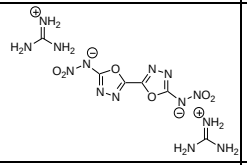
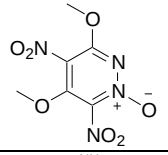
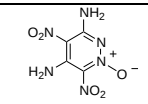
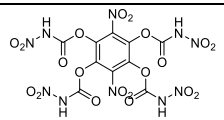
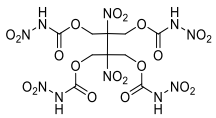
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
90	[52]		$C_3H_5N_5O_5$	-29.3	36.6	1.86			1.744	1.770	-277	-162.3	-20.66	2.1987	7922	317	8184	308	8067	294	8183	8089	306	1.757	8516	305
91	[52]		$C_3H_4N_6O_7$	-6.8	35.6	1.79			1.831	1.862	-153	-186.6	-11.74	2.3060	7978	307	9009	385	8512	320	8634	8533	337	1.847	8576	293
92	[52]		$C_4H_7N_7O_8$	-14.3	35.1	1.70			1.818	1.841	-355	-331.9	-7.50	2.1920	7394	260	8573	344	7818	262	8043	7957	289	1.829	7085	231
93	[52]		$C_4H_5N_7O_8$	-14.3	35.1	1.82	1.820			1.827	-337	-205.1		2.3922	8306	331	8573	344	8225	302	8370	8369	326	1.824	8359	279
94	[53]		$C_7H_6N_6O_{16}$	-3.7	19.5	1.76			1.748	1.789	-759	-813.8	-736.45	2.6631	8790	345	8197	309	8361	306	8262	8402	320	1.768	8263	246
95	[53]		$C_8H_8N_8O_{18}$	-6.3	22.2	1.78			1.748	1.781	-691	-476.0	-700.32	2.7093	8987	360	8354	323	8506	319	8401	8562	334	1.764	8415	240
96	[54]		$C_3H_4N_6O_8$*	10.2	29.8	1.95			1.920	1.972	142	-257.9	-171.82	2.5333	9158	407	8870	372	9619	430	9658	9326	403	1.946	8798	331
97	[54]		$C_4H_6N_6O_7$	-17.2	30.0	1.84			1.834	1.784	43	78.1	-59.90	2.5122	8696	357	8980	382	8686	339	8655	8754	359	1.809	8779	346

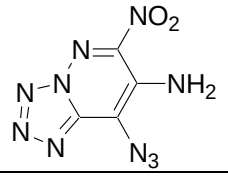
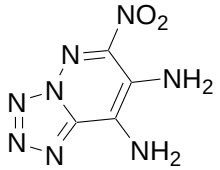
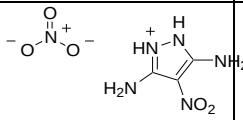
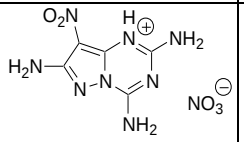
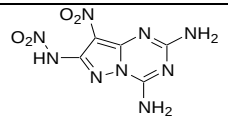
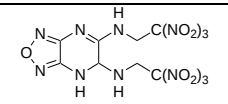
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
98	[54]		$C_4H_3N_5O_8$	-9.6	28.1	1.80			1.829	1.833	133	-23.5	-183.34	2.5522	8655	346	8404	328	8868	349	8835	8690	341	1.831	8804	346
99	[55]		$C_8H_{10}N_{10}O_6$	-76.8	39.5	1.666	1.657			1.652	197.5	311.1		1.9417	6680	218	7482	242	6988	207	7140	7072	222	1.655	7543	211
100	[55]		$C_8H_{11}N_{11}O_6$	-75.8	41.7	1.80	1.648			1.660	303.4	321.5		1.8617	6849	247	7610	254	7499	249	7554	7378	250	1.654	8302	268
101	[55]		$C_8H_8N_8O_6$	-71.8	35.9	1.84	1.682			1.651	245.9	352.3		2.2758	8064	321	7486	242	7729	268	7651	7732	277	1.667	8400	289
102	[55]		$C_{14}H_{20}N_8O_6$*	-129.2	28.3	1.53	1.474			1.384	68.6	204.9		1.6885	5734	154	5337	42	6036	146	6033	5785	114	1.429	6937	158
103	[55]		$C_8H_9N_9O_6$*	-70.9	38.5	1.62	1.672			1.659	386.9	247.5		2.0957	6913	223	7630	256	7233	217	7339	7279	232	1.665	7640	220
104	[55]		$C_9H_{13}N_{13}O_6$	-74.1	45.6	1.59	1.634			1.673	512.4	342.3		1.7017	5911	170	7837	275	7086	206	7316	7038	217	1.653	7597	208
105	[55]		$C_8H_6N_8O_6$	-67.1	36.1	1.85			1.989	1.746	147.4	299.0	325.48	2.0828	7579	296	7635	256	7540	256	7554	7577	269	1.868	8178	278

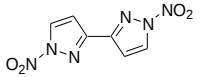
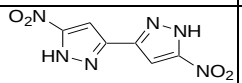
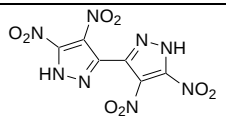
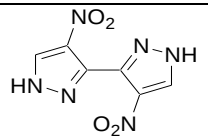
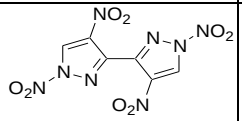
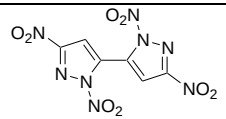
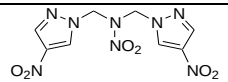
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
106	[55]		$C_8H_{11}N_{11}O_8$	-75.8	41.7	1.59	1.648			1.667	154.8	321.5		1.8617	6281	188	7610	254	6734	186	6998	6906	209	1.657	7209	185
107	[55]		$C_8H_{12}N_{12}O_8$*	-74.9	43.7	1.66	1.641			1.674	260.6	319.7		1.7817	6277	197	7728	265	7051	210	7264	7080	224	1.657	7657	214
108	[55]		$C_{14}H_{21}N_9O_8$*	-126.4	30.6	1.50	1.473			1.402	25.9	167.7		1.7086	5704	150	5530	60	5949	140	6030	5803	117	1.438	6802	151
109	[56]		$C_2H_2N_{12}O_4$	-6.2	65.1	1.930			2.134	1.921	932.1	810.1	661.23	2.6561	9428	418	10855	557	9715	436	10282	10070	470	2.027	10142	456
110	[56]		$C_2H_8N_{14}O_4$	-21.9	67.1	1.795	1.724			1.705	647.7	997.8		2.8821	9497	391	10312	506	8173	296	8900	9220	398	1.715	9519	361
111	[56]		$C_2H_8N_{14}O_6$	-9.9	60.5	1.842	1.766			1.751	789.8	620.1		2.7619	9372	395	10556	529	9399	397	9778	9776	440	1.758	9885	418

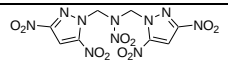
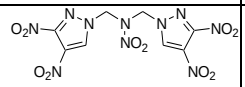
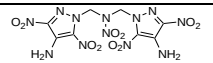
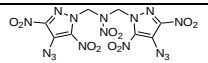
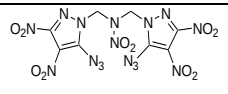
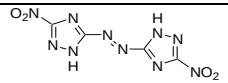
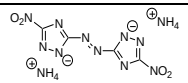
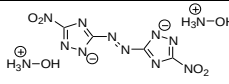
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
112	[56]		$C_2H_8N_{16}O_4$	-20.0	70.0	1.753	1.736			1.675	941.9	1263.4		2.9295	9442	379	10504	524	8778	336	9361	9521	413	1.706	9472	358
113	[57]		$C_6H_4N_6O_{16}$*	7.7	20.2	1.84			1.797	1.851	-668.0	-694.1	-715.81	2.7443	9317	392	8017	292	8813	349	8724	8718	344	1.824	8275	286
114	[57]		$C_7H_6N_6O_{16}$	-3.7	19.5	1.73			1.748	1.789	-705.2	-940.6	-736.45	2.6631	8674	333	8197	309	8305	299	8220	8349	314	1.769	8071	270
115	[57]		$C_4H_2N_6O_9$	0.0	30.2	1.75		1.858		1.782	-170.5	-287.4	-131.00	2.6195	8641	335	8574	344	8353	304	8496	8516	328	1.820	8223	280
116	[57]		$C_6H_5N_7O_{16}$*	5.6	22.7	1.92			1.795	1.851	-775.2	-509.4	-662.34	2.6643	9413	415	8251	314	8967	370	8867	8874	366	1.823	8675	237
117	[57]		$C_7H_7N_7O_{15}$	-9.3	22.8	1.63			1.748	1.776	-645.2	-693.8	-478.28	2.5431	8003	279	8303	319	7889	260	7905	7932	270	1.762	7703	241

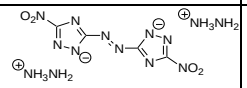
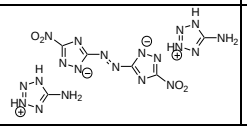
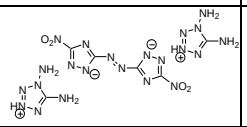
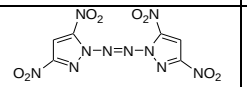
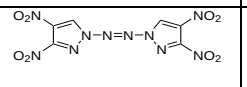
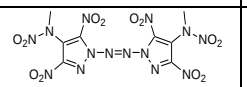
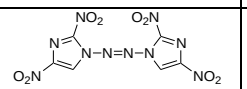
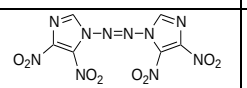
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
118	[57]		$C_4H_3N_7O_9$	-2.7	33.5	1.50		1.878		1.785	-271	-118.5	-77.53	2.5395	7515	233	8697	355	7385	215	7727	7831	268	1.831	7213	189
119	[26]		$C_6H_{11}N_3O_9$	-50.5	15.6	1.500			1.445	1.527	-480	-451.2	-604.86	2.3680	7141	216	6815	180	7298	210	7074	7082	202	1.529	7097	196
120	[37]		C3H2N4O4	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8426	306
121	[26]		$C_2H_6N_4O_4$	-32.0	37.3	1.75			1.608	1.646	-103.8	-60.9	0.81	2.3055	7842	292	8309	319	8421	309	8380	8238	307	1.627	8336	299
122	[37]		$C_4H_7N_7O_4$	-55.3	45.2	1.63	1.669			1.680	40.4	43.9		2.1249	7013	230	8283	317	7290	222	7560	7536	256	1.675	8369	276
123	[58]		$C_4H_2N_8O_6$	-18.6	43.4	1.98			1.981	1.849	278.6	190.5	66.11	2.3467	8731	387	8566	343	8941	375	9130	8842	368	1.915	9388	391
124	[58]		$C_4H_8N_{10}O_6$	-32.9	47.9	1.95	1.728			1.693	-71.8	408.8		2.7193	9685	438	8653	351	8467	333	8698	8876	374	1.711	9225	349

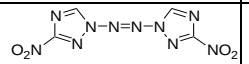
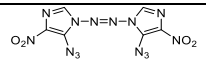
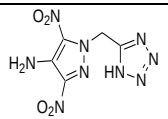
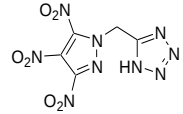
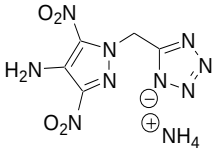
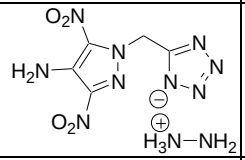
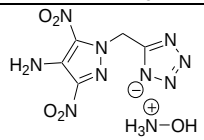
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
125	[58]		$C_4H_8N_{10}O_{10}$	-19.7	43.2	1.92	1.770			1.725	70.2	31.1		2.5991	9231	404	8968	381	8953	369	9042	9048	385	1.748	9186	341
126	[58]		$C_4H_{12}N_{14}O_6$	-51.0	52.1	1.79	1.670			1.686	-59.9	437.4		2.0511	7315	271	8386	326	7489	248	7931	7780	282	1.678	8027	248
127	[59]		$C_6H_6N_4O_7$	-52.0	22.8	1.59				1.764	1.659	-114	-172.8		2.3297	7362	241	7213	217	7314	220	7240	7282	226	1.712	7227	208
128	[59]		$C_4H_4N_6O_5$	-37.0	38.9	1.84				2.116	1.841	110	21.2		2.2521	8001	318	8725	358	8266	307	8335	8332	328	1.978	8486	302
129	[60]		$C_{10}H_{14}N_6O_{12}$	-5.5	24.0	1.71				1.852	1.924	-1275	-1125.2	-854.39	2.3027	7701	278	8023	293	7629	250	7806	7790	274	1.888	7702	-
130	[60]		$C_{10}H_{16}N_6O_{12}$	-16.2	23.7	1.89				1.713	1.764	-1441.5	-1355.9	-1051.07	2.2739	8225	340	7846	276	8293	314	8190	8138	310	1.739	8298	-

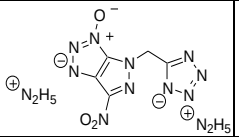
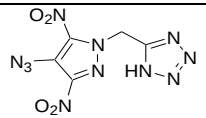
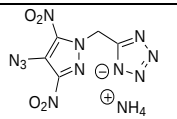
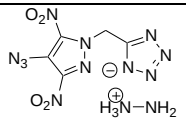
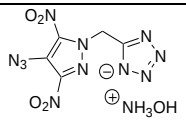
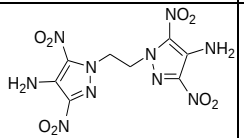
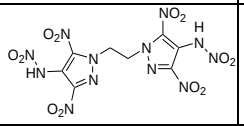
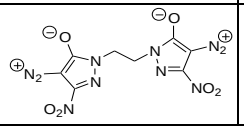
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
131	[61]		$C_4H_2N_{10}O_2$	-50.4	63.1	1.82		1.390	2.107	1.749	811.2	998.6	726.07	2.4808	8540	344	9212	403	8079	291	8608	8610	346	1.570	8746	315
132	[61]		$C_4H_4N_8O_2$	-65.3	57.1	1.80			1.948	1.766	446.5	472.9	462.06	2.3261	8064	314	8179	307	7630	258	8025	7974	293	1.857	8434	277
133	[62]		$C_3H_6N_6O_5$	-31.1	40.8	1.76	1.732			1.852	-63.4	-212.2		2.1187	7398	270	8818	367	8174	292	8290	8170	310	1.792	8420	298
135	[62]		$C_5H_7N_9O_5$	-49.8	46.1	1.82	1.817			1.816	60.0	5.8		2.1848	7758	300	8634	350	7776	270	8011	8045	307	1.817	8391	282
136	[62]		$C_5H_5N_9O_4$	-53.3	49.4	1.89				1.825	314	331.0	439.87	2.2521	8165	336	8582	345	8004	292	8242	8248	324	-	8713	319
138	[63]		$C_8H_8N_{12}O_{13}$	-23.3	35.0	1.80			1.830	1.806	110	138.0	162.52	2.3038	8005	310	8907	375	8430	315	8483	8456	333	1.818	8409	321

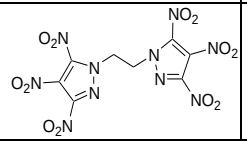
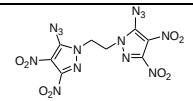
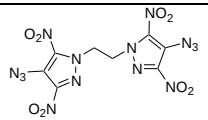
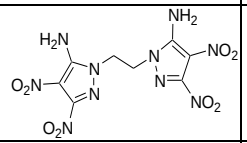
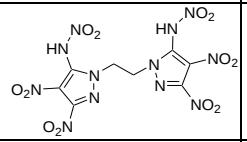
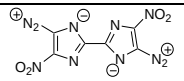
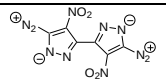
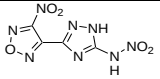
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
139	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.751	413.9	321.2	340.57	2.4109	8320	330	7503	244	7718	265	7728	7817	280	1.794	8301	288
140	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.759	229.1	149.5	299.39	2.2107	7794	301	7503	244	7425	245	7481	7551	263	1.797	8026	262
141	[64]		$C_6H_2N_8O_8H_2O$	-25.5	35.7	1.84			1.940	1.927	42.7	132.6	254.93	2.4253	8464	344	8908	375	8079	293	8251	8426	337	1.933	8556	323
142	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.83			1.836	1.759	221	149.5	299.39	2.2107	7858	308	7503	244	7469	250	7512	7586	267	1.797	8120	269
143	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.85			1.940	1.920	407.1	304.4	296.11	2.6255	9037	378	8908	375	8523	327	8631	8775	360	1.980	8869	345
144	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.855			1.940	1.920	444.1	304.4	296.11	2.6255	9057	380	8908	375	8578	332	8680	8806	362	1.980	8926	354
150	[65]		$C_8H_8N_8O_6$	-71.8	35.9	1.69			1.745	1.663	377.2	367.6	362.89	2.3759	7814	280	7486	242	7429	236	7445	7544	253	1.704	7867	251

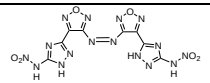
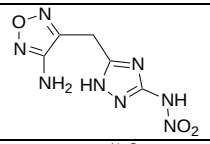
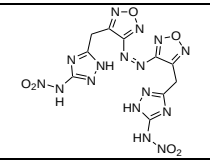
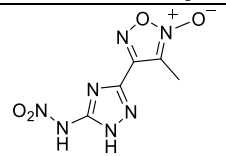
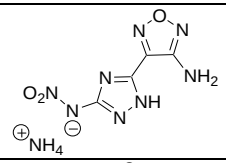
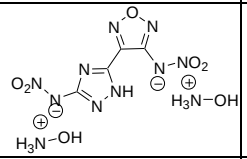
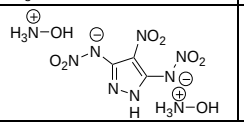
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
151	[65]		$C_8H_6N_{10}O_{10}$	-35.8	34.8	1.789	1.78		1.847	1.801	388	350.8	311.60	2.5905	8680	343	8583	345	8234	299	8273	8442	329	1.824	8258	309
152	[65]		$C_8H_6N_{10}O_{10}$	-35.8	34.8	1.78			1.847	1.801	398	350.8	311.60	2.5905	8680	343	8583	345	8242	299	8280	8446	329	1.824	8265	310
153	[65]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.86			1.839	1.820	486.4	371.6	356.24	2.4305	8549	352	8753	361	8555	331	8575	8608	348	1.829	8639	347
154	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1108.2	1220.5	884.26	2.7399	9265	386	9339	415	8619	333	8880	9026	378	1.716	8717	351
155	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1118.7	1220.5	884.26	2.7399	9265	386	9339	415	8626	333	8886	9029	378	1.716	8724	352
156	[66]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.88			2.062	1.795	571.7	580.1	453.47	2.4607	8702	365	9602	440	8421	323	8845	8892	376	1.928	8952	347
157	[66]		$C_4H_8N_{12}O_4$	-44.4	58.3	1.76	1.693			1.614	426.5	675.8		2.6867	8851	349	9200	402	7984	279	8405	8610	343	1.654	8665	295
158	[66]		$C_4H_{16}N_{12}O_6$	-30.0	52.5	1.82	1.739			1.664	279.5	521.7		2.5665	8767	356	9558	436	8402	315	8715	8860	369	1.702	8857	330

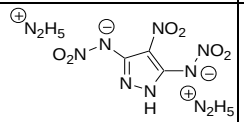
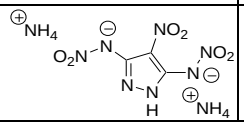
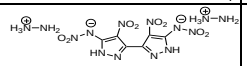
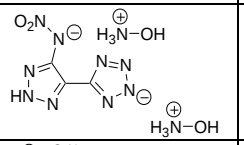
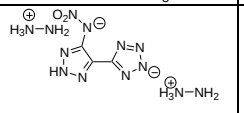
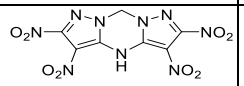
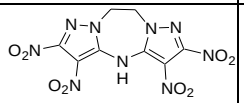
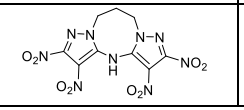
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
159	[66]		$C_4H_{10}N_{14}O_4$*	-45.3	61.6	1.80	1.671			1.634	661.9	601.5		2.3265	8065	314	9287	410	8359	310	8749	8615	345	1.652	9114	329
160	[66]		$C_6H_8N_{20}O_4$	-45.3	66.0	1.71	1.724			1.736	1239.0	1151.1		2.4209	7995	293	9525	433	7862	266	8448	8458	331	1.730	8226	258
161	[66]		$C_6H_{10}N_{22}O_4$*	-45.8	67.8	1.79	1.706			1.744	967.7	1267.0		2.4611	8381	329	9565	436	7826	271	8494	8566	345	1.725	8702	294
166	[68]**4**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.81			1.983	1.852	687.6	677.3	343.33	2.6729	9010	368	9202	403	8559	326	8773	8886	366	1.917	8298	348
167	[68]**5**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.82			1.983	1.852	687.6	677.3	343.33	2.6729	9048	372	9202	403	8592	330	8801	8911	368	1.917	8964	351
168	[68]**6**		$C_6H_6N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	789.2	849.9	392.65	2.7653	9212	377	9200	402	8654	332	8790	8964	370	1.864	8834	346
169	[68]**7**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.85			1.983	1.852	591.8	493.3	343.33	2.6729	9165	385	9202	403	8600	333	8799	8942	374	1.917	8979	356
170	[68]**8**		$C_6H_2N_{10}O_8$	-23.4	40.9	1.83			1.983	1.852	612.4	493.3	343.33	2.6729	9087	376	9202	403	8554	328	8762	8901	369	1.917	8932	351

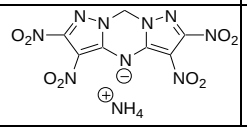
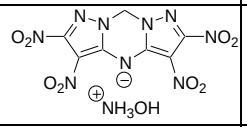
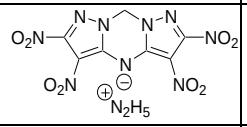
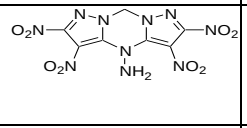
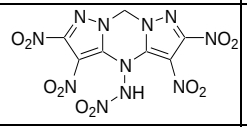
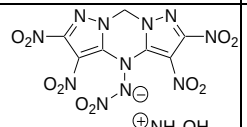
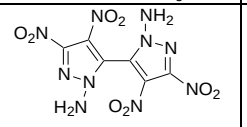
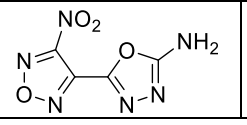
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
171	[68]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.80			2.062	1.770	719.1	859.2	494.65	2.6609	8939	362	9602	440	8373	311	8799	8928	371	1.916	8825	335
172	[68]		$C_4H_2N_{14}O_4$	-43.1	58.7	1.77		1.470		1.712	1169.1	1379.9	960.45	2.6077	8687	342	9365	418	8056	285	8557	8666	348	1.591	8702	314
173	[69]		$C_5H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	347.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
174	[69]		$C_5H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	376.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345
175	[69]		$C_5H_6N_{10}O_6$	-58.8	51.5	1.68	1.669			1.659	422.3	535.3		2.4652	7998	288	8433	331	7614	247	7900	7986	289	1.664	8153	251
176	[69]		$C_5H_7N_{11}O_6$*	-58.5	53.6	1.65	1.812			1.668	573.8	450.6		2.2851	7458	255	8521	339	7696	249	7992	7917	281	1.740	8264	256
177	[69]		$C_5H_6N_{10}O_7$	-50.0	48.6	1.75	1.695			1.685	470.2	298.9		2.4051	8096	306	8696	355	8118	287	8293	8301	316	1.690	8592	298

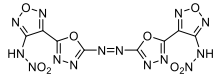
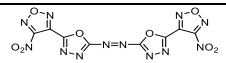
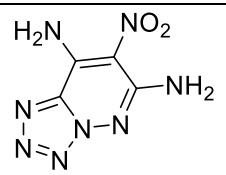
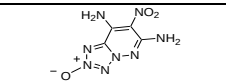
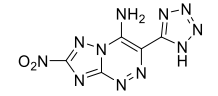
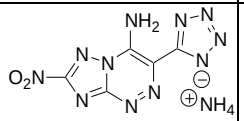
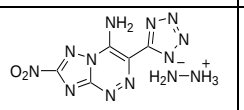
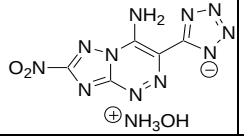
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
178	[69]		$C_6H_{14}N_{14}O_3$*	-77.5	59.4	1.69	1.604			1.658	883.2	642.1		2.3519	7755	277	8342	322	7914	267	8269	8070	289	1.631	8778	289
179	[69]		$C_6H_3N_{11}O_4$	-42.7	54.8	1.812		1.473	2.031	1.741	782.1	873.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
180	[69]		$C_6H_6N_{12}O_4$	-48.3	56.4	1.64	1.725			1.657	793.0	965.9		2.6199	8223	292	9028	386	7740	251	8150	8285	310	1.691	8167	258
181	[69]		$C_6H_7N_{13}O_4$	-48.5	58.1	1.72	1.712			1.665	937.1	928.7		2.4398	8077	299	9081	391	8137	286	8503	8450	325	1.688	8640	297
182	[69]		$C_6H_6N_{12}O_5$	-40.7	53.5	1.76	1.746			1.659	834.3	824.6		2.5598	8526	331	9210	403	8354	305	8652	8686	346	1.703	8747	322
183	[70]		$C_6H_6N_{16}O_8$	-51.6	37.6	1.77			1.799	1.768	218.9	291.4	299.47	2.3031	7903	299	8238	313	7815	268	7871	7957	293	1.784	8189	279
184	[70]		$C_6H_6N_{12}O_{12}$	-24.2	36.4	1.84			1.877	1.862	380.6	305.2	317.31	2.5177	8711	357	9000	384	8588	331	8650	8737	357	1.869	8753	343
185	[70]		$C_6H_4N_{10}O_6$	-57.1	41.7	1.72	1.765		1.926	1.724	441.9	625.9		2.4377	8072	299	8180	307	7352	233	7599	7801	280	1.805	7803	242

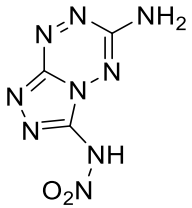
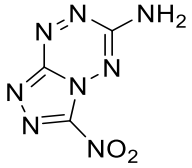
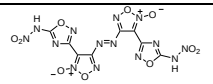
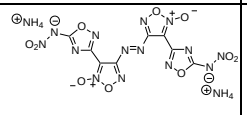
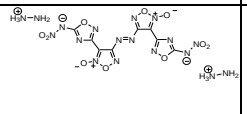
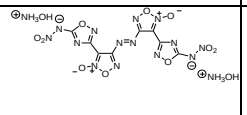
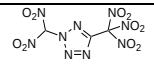
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
186	[70]		$C_8H_4N_{10}O_{12}$	-22.2	32.4	1.84			1.887	1.863	306.9	253.7	210.37	2.6777	9139	382	8852	370	8551	329	8588	8782	360	1.875	8759	341
187	[70]		$C_8H_4N_{14}O_8$	-37.7	46.2	1.78		1.543	1.983	1.750	1233.9	1140.3	827.49	2.6125	8737	347	8991	383	8398	311	8651	8694	347	1.647	8797	334
188	[70]		$C_8H_4N_{14}O_8$	-37.7	46.2	1.76		1.543	1.983	1.750	1013.9	1140.3	827.49	2.6125	8661	338	8991	383	8170	292	8444	8566	338	1.647	8558	310
189	[70]		$C_8H_8N_{10}O_8$	-51.6	37.6	1.75			1.799	1.768	237.9	291.4	299.47	2.3031	7836	292	8238	313	7772	263	7839	7921	289	1.784	8127	273
190	[70]		$C_8H_6N_{12}O_{12}$	-24.2	36.4	1.83			1.877	1.862	368.1	305.2	317.31	2.5177	8675	353	9000	384	8546	327	8615	8709	355	1.869	8710	337
195	[72]		$C_8N_{10}O_4$	-46.4	50.7	1.830	1.829		2.112	1.757	819.7	707.1		2.5201	8681	354	8964	380	7927	281	8344	8479	338	1.899	8653	311
196	[72]		$C_8N_{10}O_4$	-46.4	50.7	1.850	1.829		2.112	1.757	987.2	707.1		2.5201	8754	362	8964	380	8189	302	8580	8622	348	1.899	8943	340
197	[73]		$C_4H_2N_8O_5$	-26.4	46.3	1.851			1.996	1.881	524.66	322.8	289.91	2.4533	8578	352	9389	420	8648	337	8902	8879	370	1.938	9025	360

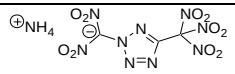
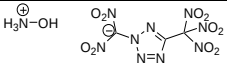
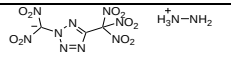
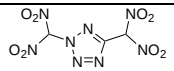
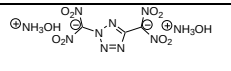
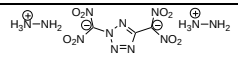
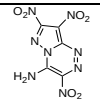
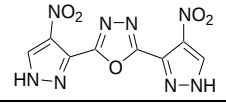
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
198	[73]		$C_8H_4N_{16}O_6$	-45.7	53.3	1.873			2.033	1.799	1274.4	1121.9	691.89	2.4727	8709	364	9045	388	8392	320	8719	8716	357	1.916	8973	349
199	[73]		$C_5H_6N_8O_3$	-70.8	49.5	1.695			1.832	1.692	449.0	364.6	313.82	2.1848	7361	258	7834	275	7456	238	7699	7588	257	1.762	8079	249
200	[73]		$C_{10}H_8N_{16}O_6$	-64.2	50.0	1.704			1.924	1.692	1206.2	1072.8	650.61	2.3103	7700	277	8314	320	7607	248	7890	7878	282	1.808	8125	260
201	[73]		$C_5H_5N_7O_4$	-59.9	43.2	1.741			1.932	1.750	443.8	321.3		2.3048	7810	289	8098	300	7873	269	7986	7942	286	1.841	8236	282
202	[73]		$C_5H_9N_9O_3$ *	-59.3	55.0	1.680	1.658			1.679	328.2	481.4		2.3790	7787	277	8386	326	7494	239	7872	7885	281	1.668	8130	246
203	[73]		$C_5H_{11}N_{11}O_7$	-27.2	47.7	1.850	1.736			1.723	327.3	190.7		2.4791	8032	290	9478	428	8286	292	8505	8575	337	1.730	9135	366
204	[74]		$C_2H_9N_9O_8$	-13.4	42.1	1.90	1.757			1.757	95.7	-165.2		2.3991	8603	364	9719	451	9368	402	9370	9265	406	1.757	9394	400

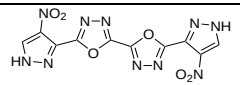
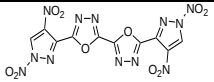
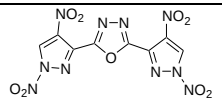
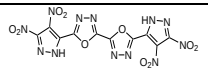
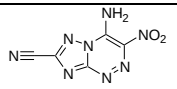
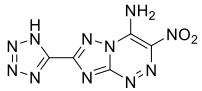
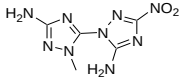
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
205	[74]		$C_3H_{11}N_{11}O_8$	-29.6	51.8	1.87	1.684			1.721	300.2	138.2		2.1591	7847	314	9570	437	9061	373	9198	8919	375	1.703	9581	385
206	[74]		$C_3H_9N_9O_7$	-27.0	47.2	1.80	1.710			1.707	-22.7	260.0		2.5193	8569	341	9451	426	8479	319	8666	8791	362	1.708	8842	326
207	[74]		$C_6H_{12}N_{14}O_8$	-39.2	48.0	1.85	1.707			1.757	498.0	297.5		2.1311	7709	303	9139	397	8654	338	8765	8567	346	1.732	9118	352
208	[74]		$C_3H_9N_{11}O_4$*	-39.5	58.5	1.82	1.672			1.644	434.3	532.5		2.4331	8414	337	9342	416	8591	330	8900	8812	361	1.658	9282	348
209	[74]		$C_2H_{11}N_{13}O_2$*	-58.2	69.7	1.71	1.588			1.608	663.4	651.9		2.1931	7429	264	8285	317	8006	276	8524	7986	270	1.598	9022	301
210	[75]		$C_7H_3N_9O_8$	-35.2	37.0	1.895			2.014	1.932	375.3	207.9	445.16	2.4715	8785	373	8664	352	8400	323	8475	8562	349	1.973	8792	343
211	[75]		$C_6H_5N_9O_8$	-47.3	35.5	1.80			1.949	1.847	301.9	275.3	418.36	2.3903	8232	323	8240	313	7908	277	7964	8086	304	1.898	8257	292
212	[75]		$C_6H_7N_9O_8$	-58.5	34.1	1.760			1.890	1.775	299.1	250.7	391.56	2.3091	7885	297	7847	276	7671	258	7680	7771	277	1.833	8051	272

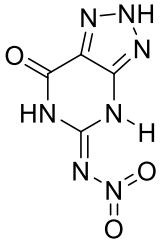
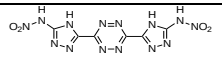
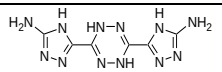
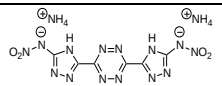
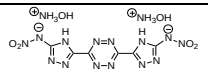
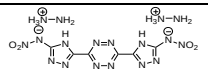
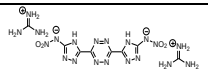
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
213	[75]		$C_7H_6N_{10}O_8$	-40.2	39.1	1.82	1.775			1.836	347.5	319.1		2.5845	8815	359	8642	350	8218	302	8296	8493	337	1.805	8518	317
214	[75]		$C_7H_6N_{10}O_9$	-34.2	37.4	1.86	1.791			1.853	392.9	177.8		2.5244	8802	367	8759	361	8549	331	8572	8670	353	1.822	8893	359
215	[75]		$C_7H_7N_{11}O_8$	-40.7	41.3	1.83	1.762			1.791	496.4	377.0		2.4044	8373	337	8732	359	8384	315	8460	8487	337	1.776	8690	332
216	[75]		$C_7H_4N_{10}O_8$	-35.9	39.3	1.790			2.005	1.929	342.0	376.8	432.55	2.4916	8460	333	8758	361	8035	285	8201	8364	326	1.967	8356	296
217	[75]		$C_7H_5N_{11}O_{10}$	-21.9	38.4	1.937			2.037	1.972	521.6	399.0	441.47	2.5989	9295	412	9127	396	8890	366	8989	9075	391	2.005	9226	388
218	[75]		$C_7H_6N_{12}O_{11}$	-22.1	38.7	1.87	1.821			1.897	573.1	533.9		2.6518	9185	391	9183	401	8894	359	8960	9056	384	1.859	9034	371
219	[76]		$C_6H_4N_{10}O_8$	-27.9	40.7	1.760 *1.811 @ 173 K*			1.922	1.921	457.8	432.5	340.75	2.4655	8285	318	9080	391	8263	299	8449	8519	336	1.922	8504	310
220	[77]		$C_4H_2N_6O_4$	-40.4	42.4	1.747			1.950	1.823	219.4	236.0	111.18	2.4660	8240	313	8781	363	7724	260	7991	8184	312	1.976	8102	269

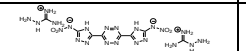
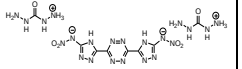
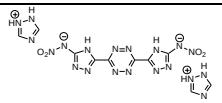
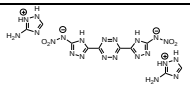
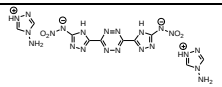
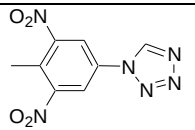
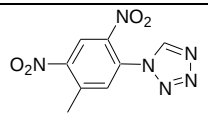
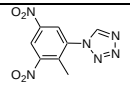
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
221	[77]		$C_8H_2N_{14}O_8$	-34.1	-34.1	1.767			2.033	1.826	786.1	1026.3	352.27	2.7127	8945	355	8660	352	7940	277	8295	8460	328	1.929	8409	293
222	[77]		$C_8N_{12}O_8$	-32.6	42.9	1.825			2.056	1.824	854.2	790.8	245.33	2.8727	9598	404	8954	379	8170	299	8475	8683	346	1.940	8800	351
223	[78]		$C_4H_4N_8O_2$	-65.3	57.1	1.869			1.948	1.766	398	564.9	462.06	2.3261	8297	340	8179	307	7731	271	8115	8080	306	1.857	8899	303
224	[78]		$C_4H_4N_8O_3$	-52.8	52.8	1.886			2.033	1.856	470	502.8		2.3661	8464	353	8669	353	8281	313	8530	8486	340	1.945	9021	348
231	[80]		$C_5H_5N_{11}O_2$	-61.0	61.8	1.873			2.067	1.776	721.6	887.2	728.72	2.4734	8711	364	8709	357	7792	276	8300	8378	332	1.921	9010	328
233	[80]		$C_5H_6N_{12}O_2$*	-66.1	63.1	1.811	1.674			1.676	625.3	982.6		2.5864	8786	356	8292	318	7565	255	8091	8184	310	1.675	8793	286
234	[80]		$C_5H_7N_{13}O_2$*	-65.4	64.8	1.855	1.662			1.685	781.2	897.9		2.4063	8466	347	8309	319	7932	284	8403	8278	317	1.673	8950	329
235	[80]		$C_5H_6N_{12}O_3$	-56.7	59.6	1.859	1.701			1.678	677.4	746.2		2.5263	8804	367	8761	361	8064	294	8457	8522	341	1.690	9220	331

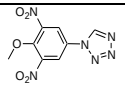
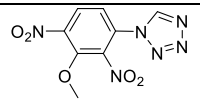
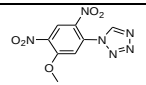
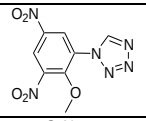
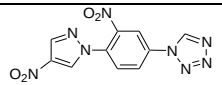
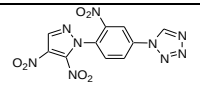
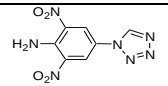
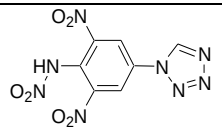
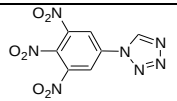
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
239	[81]		$C_2H_3N_9O_2$	-44.6	64.0	1.79			2.050	1.804	634.3	625.7	546.64	2.4274	8293	324	9288	411	8175	295	8694	8612	343	1.927	8763	313
240	[81]		$C_2H_2N_9O_2$	-43.9	61.5	1.83			1.769	1.800	656.8	592.6	493.17	2.5074	8647	352	9344	416	8374	314	8846	8803	361	1.784	8953	339
250	[84]		$C_8H_2N_{14}O_{10}$	-24.7	43.2	1.92			2.112	2.013	1241.13	840.9		2.7927	9771	436	9027	386	9028	375	9235	9265	399	2.062	9505	413
251	[84]		$C_8H_8N_{16}O_{10}$	-32.8	45.9	1.66	1.782			1.778	1060.87	905.9		3.0187	9261	348	8997	383	8134	279	8386	8694	337	1.780	8357	289
252	[84]		$C_8H_{18}N_{18}O_{10}$	-34.0	48.6	1.74	1.763			1.782	1187.52	669.3		2.6585	8701	336	9115	394	8451	310	8677	8736	347	1.772	8860	319
253	[84]		$C_8H_8N_{16}O_{12}$	-24.6	43.1	1.72	1.805			1.804	1405.62	528.2		2.8985	9224	360	9137	396	8717	328	8895	8993	361	1.804	8846	343
254	[85]		$C_3HN_9O_{10}$*	17.3	39.0	1.88			1.997	1.950	284.3	334.6	157.13	2.8082	9651	420	9252	407	9432	405	9684	9505	411	1.974	8511	312

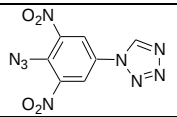
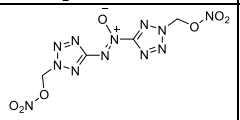
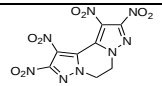
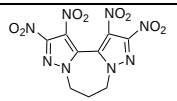
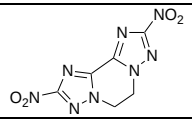
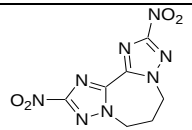
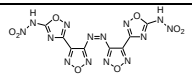
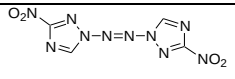
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
255	[85]		$C_3H_4N_{10}O_{10}$*	9.4	41.2	1.79	1.884			1.896	238.1	334.9		2.8211	9317	380	9678	447	9109	367	9332	9359	398	1.890	8617	316
256	[85]		$C_3H_4N_{10}O_{11}$	13.5	39.3	1.92	1.896			1.912	277.8	193.6		2.7610	9683	431	9450	426	9729	436	9873	9762	434	1.896	9054	363
257	[85]		$C_3H_5N_{11}O_{10}$	6.8	43.4	1.81	1.866			1.904	383.5	297.8		2.6410	8926	363	9881	466	8889	352	9166	9216	394	1.895	8920	346
258	[85]		$C_3H_2N_8O_8$	5.8	40.3	1.92	1.964			1.881	247.5	312.4	171.36	2.7009	9515	421	9750	454	9393	406	9587	9561	427	1.922	9123	377
259	[85]		$C_3H_8N_{10}O_{10}$	0.0	40.7	1.91	1.814			1.820	103.2	-64.7		2.6065	9214	401	10057	482	9558	420	9604	9608	434	1.817	9590	424
260	[85]		$C_3H_{10}N_{12}O_{10}$	-14.0	49.1	1.83	1.751			1.787	355.5	238.6		2.3665	8272	331	9998	477	9167	376	9329	9192	395	1.769	9230	379
261	[86]		$C_5H_2N_8O_8$	-29.6	41.5	1.90			1.971	1.897	344	410.7	341.85	2.5194	8935	383	9062	389	8479	329	8657	8783	367	1.934	8737	326
262	[87]		$C_6H_4N_8O_5$	-71.2	38.4	1.800			1.884	1.768	521.57	327.3	365.13	2.2967	7987	309	7264	222	7508	250	7594	7588	260	1.826	8099	271.4

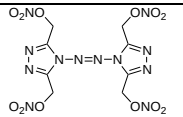
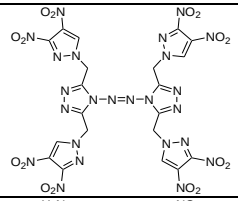
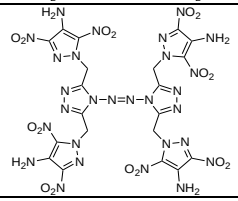
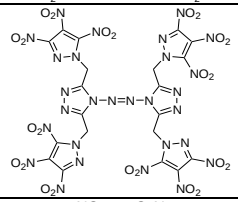
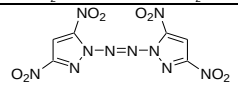
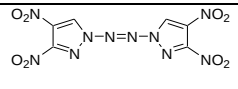
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
263	[87]		$C_{10}H_4N_{10}O_8$	-71.1	38.9	1.809			1.914	1.773	639.79	505.1	430.87	2.3827	8243	325	7098	206	7431	246	7553	7581	259	1.843	8054	265.3
264	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.831			1.972	1.903	762.11	660.0	427.59	2.7975	9423	395	8102	300	7499	252	7771	8199	316	1.976	8855	342.3
265	[87]		$C_8H_2N_{10}O_9$	-33.5	36.7	1.844			1.959	1.897	882.44	482.2	361.85	2.7115	9245	388	8434	331	8552	329	8676	8727	349	1.920	8766	333.3
266	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.870			1.972	1.885	602,65	488.2	386.41	2.5973	9037	382	8102	300	7614	263	7859	8153	315	1.929	8710	327.5
267	[88]		$C_5H_2N_8O_2$	-69.9	54.4	1.753			2.056	1.729	533.3	532.2	688.02	2.3594	7990	301	8200	309	7186	225	7644	7607	263	1.893	7763	230.5
268	[88]		$C_5H_3N_{11}O_2$	-61.0	61.8	1.819			2.067	1.776	723.4	926.9	728.72	2.4734	8517	342	8709	357	7635	260	8169	8258	320	1.921	8312	270.4
269	[89]		$C_5H_7N_9O_2$ *	-81.7	56.0	1.83			1.831	1.657	369	530.6	482.19	2.2650	8003	316	7265	222	7374	244	7715	7589	261	1.744	7520	254

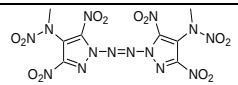
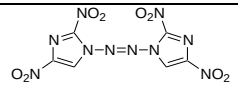
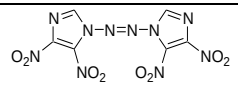
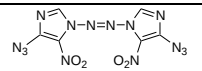
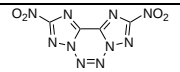
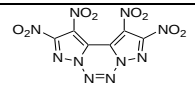
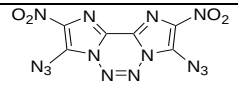
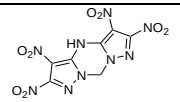
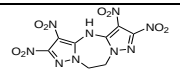
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
271	[90]		$C_4H_3N_7O_3$	-52.8	49.7	1.94			1.949	1.856	223	194.9	252.54	2.2459	8311	354	8228	312	7952	293	8235	8182	320	1.903	8845	325.4
272	[91]		$C_6H_4N_{24}O_4$	-47.6	58.3	1.88			2.044	1.781	1336.0	1220.8	828.13	2.3467	8390	347	9171	400	8660	341	9027	8812	363	1.913	9100	317
273	[91]		$C_6H_6N_{12}$	-103.1	67.7	1.84				1.659	1124.3	842.7	873.59	1.7781	6734	246	-	-	7645	263	8043	7474	254	-	8943	364
274	[91]		$C_6H_{16}N_{16}O_4$	1.657	60.5	1.79	1.674			1.640	996.0	1190.7		2.5727	8671	345	8897	374	8145	293	8512	8556	337	1.657	8898	311
275	[91]		$C_6H_{16}N_{16}O_6$	-43.8	55.7	1.81	1.711			1.645	1468.2	816.1		2.4525	8430	336	9244	406	8908	353	9142	8931	365	1.678	9267	378
276	[91]		$C_6H_{12}N_{18}O_4$	-56.0	63.0	1.78	1.657			1.654	1361.5	1214.6		2.2125	7702	290	8989	383	8412	312	8765	8467	328	1.655	9214	337
277	[91]		$C_6H_{14}N_{20}O_4$	-66.9	61.7	1.84	1.636			1.644	947.3	1127.3		1.9045	7072	265	8564	343	7848	277	8260	7936	295	1.640	8978	309

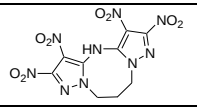
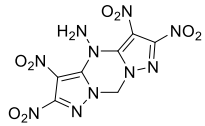
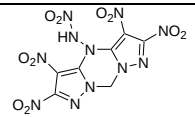
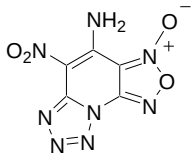
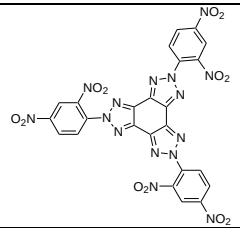
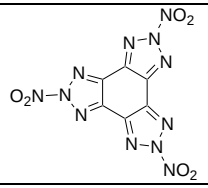
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
278	[91]		$C_8H_{16}N_{22}O_4$	-66.1	63.6	1.79	1.624			1.656	1360	1243.2		1.7445	6517	227	8660	352	8032	285	8420	7907	288	1.640	8963	318
279	[91]		$C_8H_{16}N_{22}O_6$	-55.8	59.7	1.82	1.657			1.678	1312.9	1198.4		1.8245	6805	247	9033	387	8350	311	8654	8210	315	1.667	8978	334
280	[91]		$C_{10}H_{10}N_{20}O_4$	-70.8	59.1	1.85	1.677			1.676	1581.4	1578.3		2.2643	8067	323	8375	325	8002	289	8330	8194	312	1.676	8925	318
281	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.84	1.664			1.697	1791.1	1694.2		2.1043	7606	295	8479	335	8122	296	8461	8167	309	1.680	8976	336
282	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.85	1.664			1.686	1497.5	1694.2		2.3045	8175	329	8479	335	7934	284	8309	8224	316	1.675	8966	323
284	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.66				1.577	403.9	421.8	313.83	2.2557	7421	255	6492	150	6833	197	6865	6903	201	1.661	7432	204
285	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.63			1.745	1.577	408.7	421.8	313.83	2.2557	7322	245	6492	150	6754	190	6813	6845	195	1.661	7305	195
286	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.62			1.745	1.577	392.9	421.8	313.83	2.2557	7290	242	6492	150	6706	187	6777	6816	193	1.661	7243	191

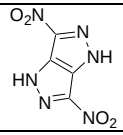
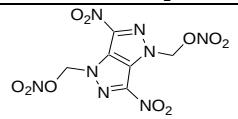
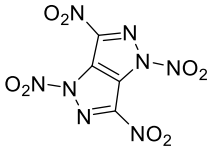
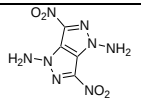
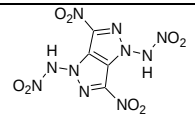
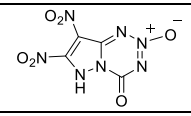
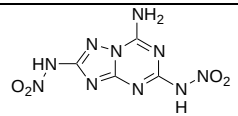
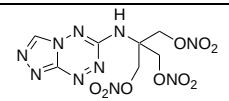
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
287	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	243.4	313.83	2.2957	7651	274	6688	168	7097	216	7075	7128	219	1.677	7247	199
288	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.62			1.746	1.608	287.4	243.4	181.61	2.2957	7384	247	6688	168	6849	195	6900	6955	203	1.677	7268	197
289	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.65			1.746	1.608	322.4	243.4	181.61	2.2957	7484	257	6688	168	6977	205	6995	7036	210	1.677	7432	210
290	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.66			1.746	1.608	293.7	243.4	181.61	2.2957	7517	260	6688	168	7006	207	7015	7056	212	1.677	7442	211
291	[92]		$C_{10}H_6N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	584.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
292	[92]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
293	[92]		$C_7H_5N_7O_4$	-79.6	39.0	1.69			1.825	1.675	369.0	427.6	368.26	2.2569	7522	265	7279	223	7051	212	7192	7261	233	1.750	7899	241
294	[92]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	449.9	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.818	8202	280
295	[92]		$C_7H_3N_7O_6$	-54.1	34.9	1.83			1.890	1.750	470.5	361.3	323.71	2.4442	8479	342	7988	289	7989	286	8022	8120	306	1.820	8298	284

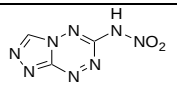
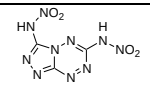
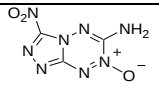
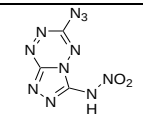
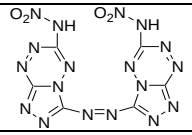
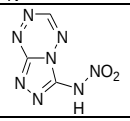
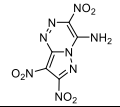
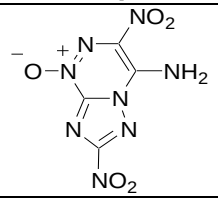
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
296	[92]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	858.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.665	7734	262
299	[93]		$C_4H_4N_{12}O_7$	-14.5	50.6	1.68			1.937	1.756	345.4	804.3		2.8211	8866	333	10007	478	8035	275	8481	8847	362	1.847	8066	258
301	[94]		$C_8H_4N_8O_8$	-47.0	32.9	1.762			1.866	1.847	326.6	328.3	331.19	2.4703	8304	320	8123	302	7808	267	7864	8025	296	1.857	8135	281
302	[94]		$C_9H_6N_8O_8$	-58.7	31.6	1.677			1.803	1.772	280.1	211.7	304.39	2.3891	7801	277	7719	264	7392	232	7441	7588	258	1.788	7700	241
303	[94]		$C_8H_4N_8O_4$	-63.5	44.4	1.733			1.905	1.763	345.3	454.7	489.34	2.4583	8170	307	8059	296	7309	232	7567	7776	278	1.834	7838	241
304	[94]		$C_7H_6N_8O_4$	-78.1	42.1	1.634			1.820	1.677	307.2	430.1	462.54	2.3771	7624	261	7439	238	6832	195	7078	7243	231	1.748	7336	197
314	[95]		$C_8H_2N_{14}O_8$	-34.1	46.4	2.12			2.033	1.826	1038.0	964.9	352.27	2.7127	10336	520	8875	372	9274	418	9424	9477	437	1.929	10114	461
315	[95]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.80			2.062	1.770	718	803.7	494.65	2.6609	8939	362	9602	440	8371	311	8797	8927	371	1.916	8830	335

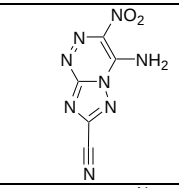
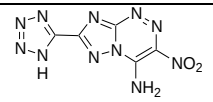
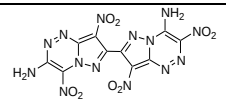
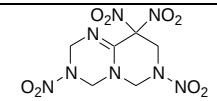
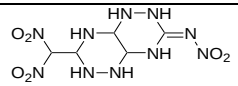
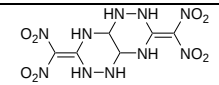
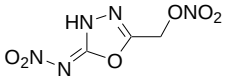
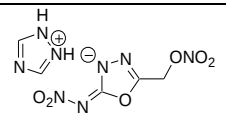
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316	[95]		$C_8H_8N_{12}O_{12}$	-27.6	36.2	1.70			1.833	1.687	246	271.8	-161.25	2.7107	8676	327	9005	384	8091	280	8200	8493	330	1.760	8190	285
318	[95]		$C_{20}H_{12}N_{24}O_{16}$	-56.8	39.8	1.74			1.889	1.742	1382	1331.9	1089.55	2.8391	9158	361	8130	303	7652	254	7799	8185	306	1.816	8070	269
319	[95]		$C_{20}H_{16}N_{28}O_{26}$	-56.6	43.4	1.75			1.879	1.763	1483	1563.8	1178.83	2.5191	8385	322	8337	322	7731	261	7904	8089	302	1.821	8190	273
320	[95]		$C_{20}H_8N_{28}O_{24}$	-31.2	38.3	1.82			1.944	1.843	1359	1298.3	1000.63	3.2683	10623	460	8785	364	8283	306	8435	9032	377	1.893	8640	323
321	[95]		$C_8H_2N_{16}O_8$	-23.4	40.9	1.81			1.983	1.852	687.6	677.3	343.33	2.6729	9010	368	9202	403	8559	326	8773	8886	366	1.917	8928	348
322	[95]		$C_8H_2N_{16}O_8$	-23.4	40.9	1.82			1.983	1.852	687.6	677.3	343.33	2.6729	9048	372	9202	403	8592	330	8801	8911	368	1.917	8964	351

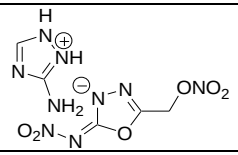
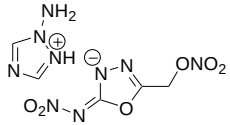
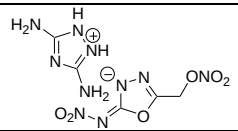
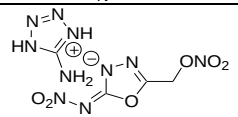
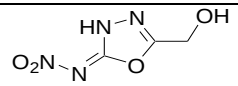
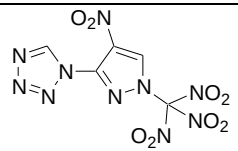
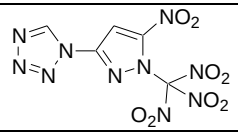
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
323	[95]		$C_8H_8N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	744.1	849.9	392.65	2.7653	9212	377	9200	402	8624	330	8763	8950	370	1.864	8834	346
324	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.85			1.983	1.852	591.8	493.3	343.33	2.6729	9165	385	9202	403	8600	333	8799	8942	374	1.917	8979	356
325	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.83			1.983	1.852	612.4	493.3	343.33	2.6729	9087	376	9202	403	8554	328	8762	8901	369	1.917	8932	251
326	[95]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.77		1.470	2.107	1.712	1289.7	1379.9	960.45	2.6077	8687	342	9365	418	8175	293	8663	8722	351	1.591	8702	314
327	[96]		$C_4N_{10}O_4$	-25.4	55.6	1.901 (β), 1.91 (α)			2.146	1.949	787	861.4	647.15	2.8147	9755	431	9863	464	8674	345	9153	9361	413	2.047	9400	380
328	[96]		$C_6N_{10}O_8$	-18.8	41.2	1.89			2.044	1.994	758.5	735.0	495.83	2.8267	9743	427	9327	414	8797	353	9050	9229	398	2.019	9631	440
329	[96]		$C_6N_{14}O_4$	-38.5	59.0	1.89		1.470	2.171	1.835	1318.8	1437.6	1112.95	2.7615	9564	417	9561	436	8499	330	9014	9160	394	1.652	9256	367
330	[96]		$C_7H_3N_9O_8$	-35.2	37.0	1.90			2.014	1.932	375.3	207.9	445.16	2.4715	8803	375	8664	352	8415	324	8488	8592	1.973	1.973	8792	343
331	[96]		$C_6H_5N_9O_8$	-47.3	35.5	1.80			1.949	1.847	301.9	275.3	418.36	2.3903	8232	323	8240	313	7908	277	7964	8086	304	1.898	8257	292

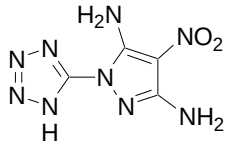
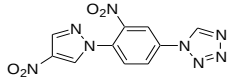
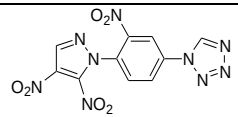
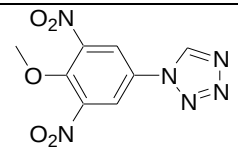
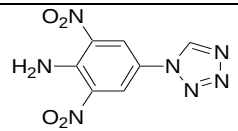
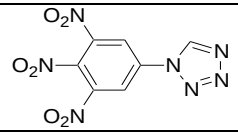
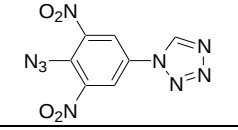
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
332	[96]		$C_5H_7N_9O_8$	-58.5	34.1	1.76			1.890	1.775	299.1	250.7	391.56	2.3091	7885	297	7847	276	7671	258	7680	7771	277	1.833	8051	272
333	[96]		$C_7H_4N_{10}O_8$	-35.9	39.3	1.79			2.005	1.929	341.9	399.0	432.55	2.4916	8460	333	8758	361	8035	285	8201	8364	326	1.967	8356	296
334	[96]		$C_7H_3N_{11}O_{10}$	-21.9	38.4	1.94			2.037	1.972	521.5	521.7	441.47	2.5989	9306	413	9127	396	8900	367	8997	9082	392	2.005	9226	388
335	[96]		$C_5H_2N_8O_4$	-47.0	47.1	1.92			1.939	1.944	908	534.7		2.5860	9194	402	8753	361	8838	360	9037	8956	374	2.030	8838	360
336	[96]		$C_{24}H_8N_{15}O_{12}$	-92.6	30.0	1.69			1.834	1.719	695.0	1257.3	1006.99	2.3272	7695	274	6535	154	6493	180	6593	6829	203	1.776	7032	199
338	[96]		$C_8N_{12}O_8$	-28.6	50.0	1.82				2.033	710.0	1109.3	814.41	2.9407	9757	411	9443	425	8093	292	8540	8958	376	2.119	8376	312

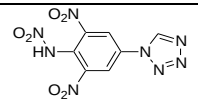
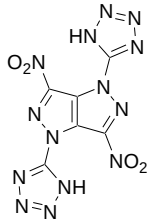
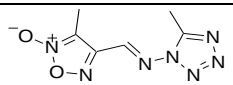
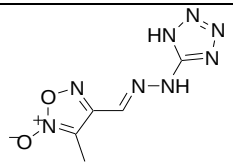
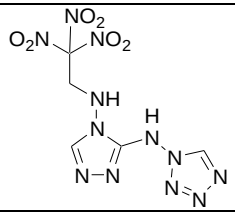
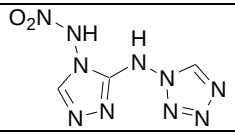
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
340	[96]		$C_4H_2N_6O_4$	-40.4	42.4	1.85			1.950	1.942	322.6	140.9	295.21	2.3659	8340	339	8781	363	8230	305	8403	8438	336	1.946	8250	274
341	[96]		$C_6H_4N_{10}O_{10}$	-18.4	32.2	1.82			1.863	1.856	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.860	8674	331
342	[96]		$C_4N_8O_8$	0.0	38.9	1.95			2.127	2.085	550.9	295.8	291.93	2.7807	9859	448	9834	462	9443	414	9663	9700	441	2.106	9460	409
343	[96]		$C_4H_4N_8O_4$	-42.1	49.1	1.84			1.921	1.930	467.0	256.9	381.03	2.4061	8413	341	8957	380	8413	318	8626	8602	346	1.925	8864	339
344	[96]		$C_4H_5N_{10}O_8$	-5.0	44.0	1.93			2.000	2.042	595.2	270.7	398.87	2.6207	9329	412	9933	471	9363	405	9594	9555	429	2.021	9507	418
345	[96]		$C_4HN_7O_6$	-16.5	40.3	2.02			2.095	2.024	131.8	224.5		2.5733	9533	445	9137	397	8855	372	9035	9140	405	2.059	8515	332
346	[96]		$C_4H_4N_{10}O_4$	-37.5	54.7	1.84			1.980	1.856	544.9	500.7	524.45	2.3534	8272	333	9345	416	8368	315	8721	8676	355	1.918	8787	342
350	[96]		$C_7H_8N_{10}O_9$	-38.3	37.2	1.79			1.799	1.700	246.0	251.2	14.83	2.5172	8527	337	8366	325	8261	302	8285	8360	321	1.749	9290	294

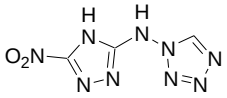
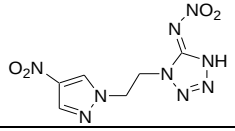
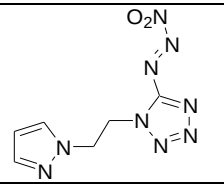
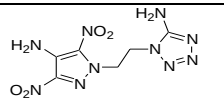
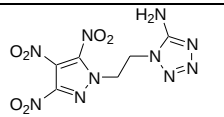
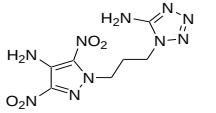
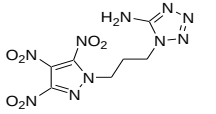
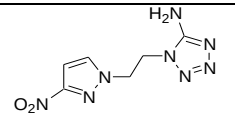
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
351	[96]		$C_3H_2N_8O_2$	-43.9	61.5	1.76			2.076	1.782	675.1	567.8	524.32	2.5074	8392	324	9344	416	8182	293	8678	8649	344	1.929	8621	304
352	[96]		$C_2H_4N_{10}O_4$	-19.8	57.9	1.91			2.078	1.890	740.9	709.3	555.56	2.5347	9014	390	10102	487	9086	379	9517	9430	419	1.984	9301	383
353	[96]		$C_2H_2N_8O_3$	-32.3	56.6	1.86			2.327	1.898	744.0	475.1		2.5474	8865	370	9622	442	8905	359	9282	9168	390	2.112	9384	391
357	[96]		$C_3HN_{11}O_2$	-32.3	69.1	1.85		1.456	2.196	1.782	951.8	1056.3	810.65	2.5821	8921	371	10187	494	8591	333	9255	9238	399	1.619	9236	363
358	[96]		$C_6H_2N_{18}O_4$	-36.9	64.6	1.85			2.158	1.805	2037.8	1595.0	1116.25	2.7955	9494	404	9816	460	6522	192	7846	8420	352	1.982	9500	398
360	[96]		$C_3H_2N_8O_2$	-43.9	61.5	1.81			2.076	1.782	647.8	659.7	524.32	2.5074	8574	344	9344	416	8292	306	8775	8746	355	1.929	8800	332
361	[96]		$C_3H_6N_8O_2$	-29.6	41.5	1.95			1.971	1.897	370.0	410.7	341.85	2.5194	9118	404	9062	389	8123	307	8379	8670	367	1.934	8998	360
362	[96]		$C_2H_2N_8O_4$	-26.4	46.3	1.90 (predicted)			1.937	2.095	378.0	384.1		2.5534	9029	388	9389	420	8594	338	8850	8966	382	2.016	8970	354

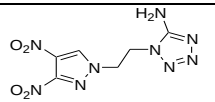
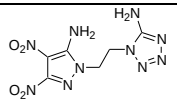
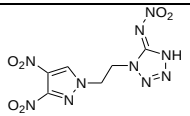
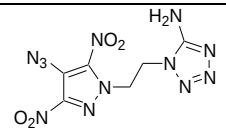
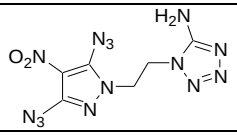
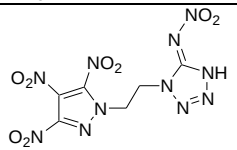
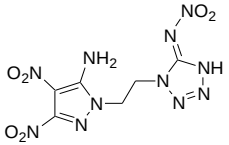
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
363	[96]		$C_5H_5N_9O_2$	-69.9	54.4	1.81			2.056	1.729	533.5	664.6	688.02	2.3594	8185	322	8200	309	7349	240	7773	7877	290	1.893	7763	231
364	[96]		$C_5H_3N_{11}O_2$	-61.0	61.8	1.82			2.067	1.776	752.7	926.9	728.72	2.4734	8521	343	8709	357	7685	264	8207	8280	321	1.921	8312	270
365	[96]		$C_{10}H_4N_{14}O_8$	-50.0	43.7	1.85			1.971	1.859	899.0	912.2	748.55	2.5575	8669	347	8484	336	7876	275	8104	8283	319	1.915	8572	314
366	[96]		$C_6H_6N_8O_8$	-40.0	35.0	1.86			1.933	1.748	124.76	223.3	166.22	2.4573	8621	356	8328	321	8527	329	8430	8476	335	1.841	8798	338.7
367	[96]		$C_5H_{16}N_{10}O_6$	-47.0	45.7	1.73			1.832	1.791	304.2	-66.5	184.42	1.8909	6733	230	8532	340	8130	286	8247	7910	285	1.812	8492	294
368	[96]		$C_7H_8N_8O_8$			1.85			1.892	1.876	348.2	35.0	270.09	1.9041	7098	268	8665	352	8610	334	8622	8249	318	1.884	8862	352
370	[98]		$C_2H_3N_5O_6$	-11.7	34.1	1.875			1.794	1.796	26.13	-21.4	-152.23	2.4461	8644	361	8732	359	8858	357	8880	8778	359	1.795	8855	349.9
371	[98]		$C_5H_6N_8O_6$	-40.9	40.9	1.772	1.748			1.721	569.08	163.2		2.4049	8172	314	8237	312	7815	268	7988	8053	298	1.735	8630	319.8

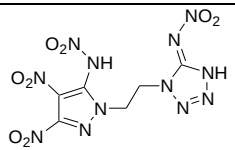
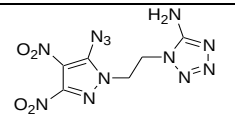
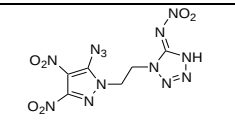
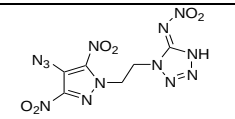
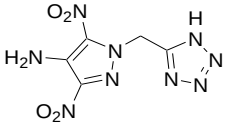
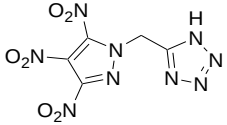
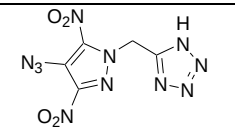
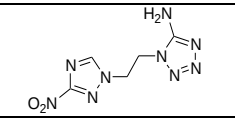
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
372	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.780	1.733			1.717	600.04	221.1		2.1783	7614	285	8361	324	8584	325	8651	8302	311	1.725	8725	321.2
373	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.802	1.733			1.707	667.09	221.1		2.2784	7946	307	8518	339	8732	338	8781	8494	328	1.720	8877	337.1
374	[98]		$C_5H_8N_{10}O_6$	-42.1	46.0	1.814	1.719			1.733	508.38	279.1		2.0983	7511	286	8622	348	7910	279	8153	8049	304	1.726	8821	321.2
375	[98]		$C_4H_6N_{10}O_6$	-27.6	48.3	1.796	1.768			1.709	784.44	308.5		2.2796	7929	305	9166	399	8990	358	9162	8812	354	1.739	9142	365.7
376	[98]		$C_2H_4N_4O_4$	-40.0	35.0	1.811			1.943	1.678	-75.57	-107.6	-161.48	2.3388	8134	320	7855	277	8042	288	8047	8020	295	1.810	8140	272.2
379	[99]		$C_5H_2N_{10}O_8$	-14.5	42.4	1.79			1.991	1.886	602	582.9	396.52	2.7469	9124	370	9554	435	8641	330	8898	9054	378	1.938	8860	340
380	[99]		$C_5H_2N_{10}O_8$	-14.5	42.4	1.76			1.991	1.886	629	582.9	396.52	2.7469	9005	357	9554	435	8566	321	8834	8990	371	1.938	8780	320

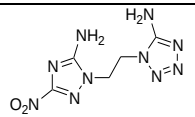
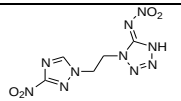
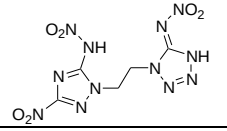
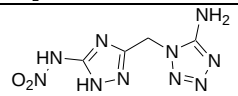
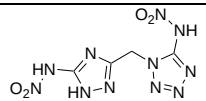
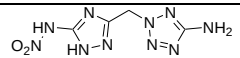
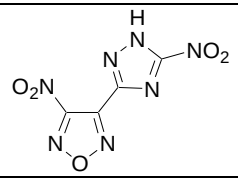
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
381	[99]		$C_4H_5N_9O$	-64.4	59.7	1.76			1.933	1.772	407.7	483.3	493.71	2.2461	7724	288	8209	310	6410	180	7360	7426	259	1.853	8257	259
383	[99]		$C_{10}H_8N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	676.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
384	[99]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
385	[99]		$C_8H_6N_8O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	335.4	181.61	2.2957	7651	274	6859	184	7097	216	7075	7170	225	1.677	7274	199
386	[99]		$C_7H_5N_7O_4$	-79.6	39.0	1.69			1.825	1.675	369.0	427.6	368.26	2.2569	7522	265	7279	223	7051	212	7192	7261	233	1.750	7899	241
387	[99]		$C_7H_3N_7O_6$	-54.1	34.9	1.83			1.890	1.750	470.5	453.2	323.71	2.4442	8479	342	7988	289	7989	286	8022	8120	306	1.820	8298	284
388	[99]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	950.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.516	7734	262

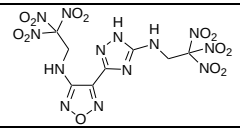
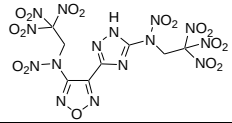
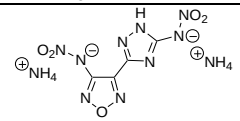
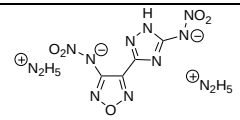
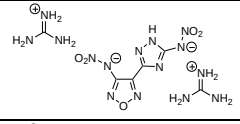
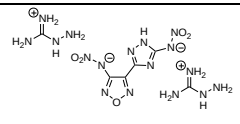
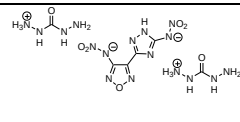
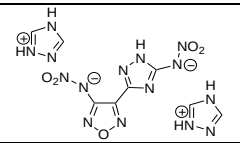
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
389	[99]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	541.8	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.755	8208	280
392	[99]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
394	[99]		$C_6H_7N_7O_2$	-103.3	46.9	1.531				1.490	568.96	537.6		2.3438	7194	223	6118	115	6644	177	6903	6715	172	-	6900	192.4
395	[99]		$C_6H_6N_8O_2$	-83.8	53.3	1.62				1.595	760.2	525.0		2.2449	7264	241	7169	213	7407	228	7685	7381	227	-	7991	235
398	[99]		$C_5H_6N_{15}O_6$	-33.9	50.9	1.77			1.927	1.772	1091.8	690.7	558.48	2.4997	8409	327	9346	416	8791	339	9032	8894	361	1.849	9004	349
399	[99]		$C_3H_4N_{10}O_2$	-45.3	66.0	1.78			2.027	1.777	923.3	787.3	630.03	2.4475	8310	323	9240	406	8591	325	9065	8802	351	1.902	9141	336

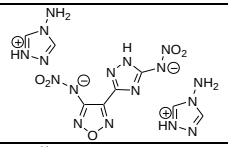
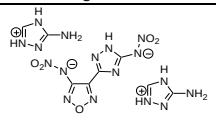
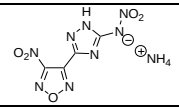
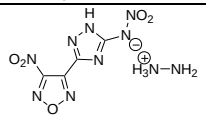
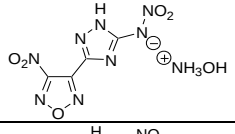
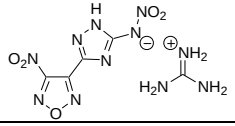
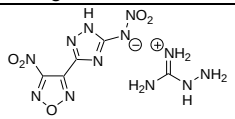
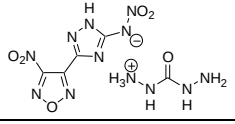
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
400	[99]		$C_2H_3N_9O_2$	-44.6	64.0	1.74			2.050	1.787	950.6	484.1	555.97	2.4274	8117	305	9288	411	8541	317	9016	8740	344	1.918	8885	321
402	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.65			1.818	1.649	463	602.4	405.89	2.3711	7665	266	7941	285	7337	226	7571	7628	259	1.734	7824	231
403	[99]		$C_6H_7N_{10}O_4$	-91.1	53.2	1.50			1.827	1.509	522.3	818.5	475.60	2.3912	7192	218	6873	185	6435	164	6895	6849	189	1.668	7041	163
404	[99]		$C_6H_6N_{10}O_4$	-67.6	49.3	1.67			1.992	1.678	373.7	565.3	450.79	2.2911	7539	263	8057	296	7277	224	7569	7610	261	1.835	7889	232
405	[99]		$C_6H_4N_{10}O_6$	-45.8	44.6	1.71			1.873	1.745	430.7	594.0	406.24	2.4784	8138	301	8689	355	7817	263	8033	8169	306	1.809	8172	271
406	[99]		$C_7H_{10}N_{10}O_4$	-80.5	47.0	1.65			1.920	1.611	364.6	540.7	430.15	2.2099	7278	246	7503	244	7069	210	7301	7288	233	1.765	7768	218
407	[99]		$C_7H_8N_{10}O_6$	-58.5	42.7	1.67			1.805	1.676	437.3	569.4	385.60	2.3972	7797	276	8205	310	7565	242	7725	7823	276	1.740	7959	247
408	[99]		$C_6H_8N_8O_2$	-99.9	50.0	1.53			1.920	1.552	355.8	610.8	450.70	2.2638	7013	214	6285	130	6330	160	6730	6590	168	1.736	7072	168

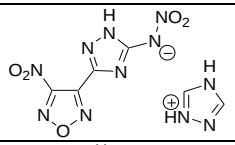
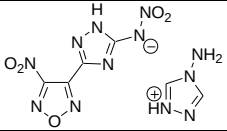
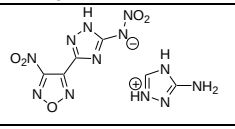
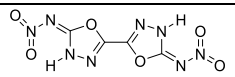
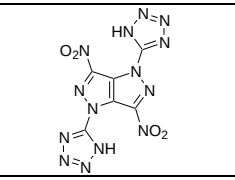
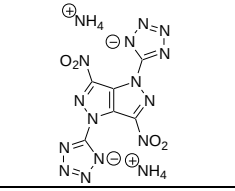
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
409	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.59			1.818	1.659	394.7	602.4	428.47	2.3711	7458	245	7941	285	7067	205	7363	7457	245	1.739	7516	206
410	[99]		$C_6H_8N_{10}O_4$	-67.6	49.3	1.68			1.992	1.678	369.0	565.3	450.79	2.2911	7573	266	8057	296	7300	227	7588	7630	263	1.835	7883	230
411	[99]		$C_6H_6N_{10}O_6$	-45.8	44.6	1.69			1.873	1.735	485.6	594.0	383.66	2.4784	8066	293	8689	355	7814	261	8031	8150	303	1.804	8114	267
412	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.70		1.443	1.938	1.674	784.9	1090.9	714.80	2.4458	8021	293	8660	352	7692	253	8051	8106	299	1.558	8185	261
413	[99]		$C_6H_6N_{14}O_2$	-67.9	64.0	1.63		1.384	2.005	1.608	1057.8	1480.6	1023.36	2.4132	7695	264	8334	322	7286	221	7842	7789	269	1.496	7917	231
414	[99]		$C_6H_5N_{11}O_8$	-29.0	42.9	1.77			1.914	1.788	516.3	585.6	361.43	2.4391	8253	318	9155	398	8337	305	8529	8568	340	1.851	8555	316
415	[99]		$C_6H_7N_{11}O_6$	-46.2	46.8	1.76			2.045	1.731	455.8	556.9	405.98	2.2518	7738	289	8778	363	7990	279	8201	8177	310	1.888	8388	288

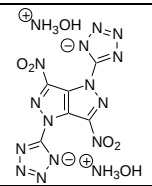
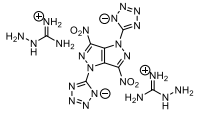
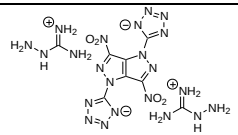
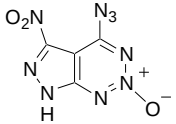
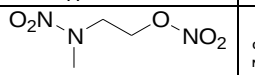
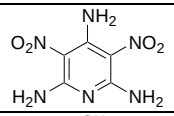
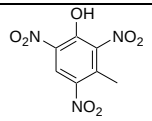
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
416	[99]		$C_6H_6N_{12}O_8$	-29.9	44.9	1.84			1.907	1.791	501.8	579.1	414.90	2.3591	8287	334	9224	405	8534	327	8712	8689	355	1.849	8804	342
417	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.71		1.443	1.938	1.674	727.2	1090.9	714.80	2.4458	8057	297	8660	352	7657	252	8024	8100	300	1.558	8186	263
418	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.81		1.544	1.971	1.453	812.5	1082.5	669.99	2.4065	8309	329	9209	403	8336	309	8634	8622	347	1.498	8748	327
419	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.78		1.544	1.971	1.724	844.4	1082.5	669.99	2.4065	8204	318	9209	403	8270	301	8579	8566	341	1.634	8659	318
420	[99]		$C_5H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	439.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
421	[99]		$C_5H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	468.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345
422	[99]		$C_5H_3N_{11}O_4$	-42.7	54.8	1.81		1.473	2.031	1.741	782.1	965.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
423	[99]		$C_5H_7N_9O_2$	-81.7	56.0	1.58			2.009	1.589	382.8	637.9	504.13	2.3651	7410	241	7265	222	6690	183	7181	7136	215	1.799	7395	188

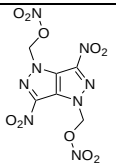
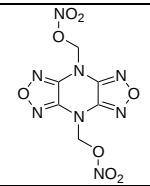
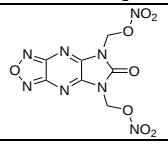
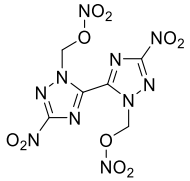
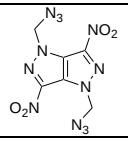
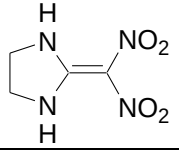
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
424	[99]		$C_5H_8N_{10}O_2$	-79.9	58.3	1.66			1.825	1.614	359.4	695.9	526.45	2.2851	7492	259	7349	230	6879	200	7390	7278	230	1.720	7807	216
425	[99]		$C_5H_6N_{10}O_4$	-53.3	51.8	1.66			1.892	1.663	476.8	629.5	459.32	2.3258	7590	264	8668	353	7534	240	7887	7920	286	1.777	8113	256
426	[99]		$C_5H_6N_{12}O_6$	-33.9	50.9	1.69			1.927	1.753	511.5	709.7	490.56	2.3531	7758	277	9346	416	7947	270	8299	8338	321	1.840	8690	322
427	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.71			1.919	1.699	476.2	659.1	557.65	2.2662	7611	273	8236	312	7406	236	7929	7796	274	1.809	8187	249
428	[99]		$C_4H_5N_{11}O_4$	-38.4	56.8	1.81			1.966	1.785	285.0	742.7	566.57	2.3735	8222	324	9388	420	7847	274	8356	8453	339	1.875	8750	318
429	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.72			1.919	1.699	462.8	659.1	557.65	2.2662	7644	277	8236	312	7411	237	7937	7807	275	1.809	8213	252
433	[101]		$C_4HN_7O_5$	-24.7	43.2	1.863			2.013	1.883	499.91	234.2	236.44	2.5333	8837	369	9321	414	8668	340	8907	8933	374	1.948	9152	371

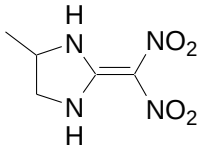
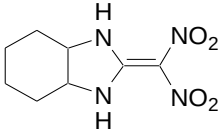
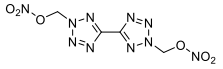
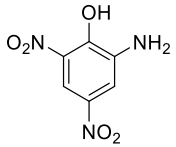
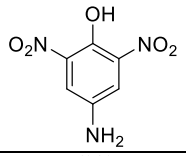
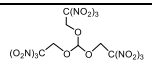
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
434	[101]		$C_8H_7N_{13}O_{13}$	-21.1	36.9	1.908			1.869	1.822	451.38	340.8	200.28	2.4777	8849	379	9135	396	8962	369	8980	8982	381	1.845	9087	381
435	[101]		$C_8H_5N_{15}O_{17}$	-4.1	36.0	1.932			1.920	1.891	648.95	446.6	206.88	2.8925	10100	458	9560	436	9383	407	9455	9624	434	1.905	9355	401
436	[101]		$C_4H_9N_{11}O_5$	-41.2	52.9	1.822	1.691			1.676	246.19	473.3		2.5993	8861	362	9163	399	8274	306	8549	8712	356	1.683	8897	319
437	[101]		$C_4H_{11}N_{33}O_5$	-42.3	56.7	1.834	1.669			1.691	616.05	589.2		2.2391	7947	313	9281	410	8716	341	8949	8723	355	1.680	9045	349
438	[101]		$C_6H_{13}N_{15}O_5$	-57.6	56.0	1.659	1.641			1.673	249.08	501.9		1.9311	6635	215	8748	360	7260	222	7740	7596	266	1.657	7942	229
439			$C_6H_{15}N_{17}O_5$	-57.2	58.8	1.679	1.627			1.685	656.43	571.8		1.7711	6301	201	8872	372	7723	254	8109	7751	276	1.656	8455	265
440	[101]		$C_6H_{15}N_{17}O_7$	-45.7	54.5	1.687	1.665			1.710	607.27	527.0		1.8511	6517	213	9198	402	8000	273	8300	8004	296	1.688	8159	277
441			$C_8H_9N_{15}O_5$	-62.7	53.2	1.780	1.691			1.711	833.73	906.9		2.2909	7905	301	8466	334	7763	266	8055	8047	300	1.701	8341	264

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
442	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.761	1.674			1.721	1103.75	1068.9		2.3311	7945	300	8604	347	7934	276	8233	8179	308	1.698	8642	291
443	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.752	1.674			1.735	804.55	1068.9		2.1309	7405	269	8604	347	7640	255	8006	7914	290	1.704	8373	268
444	[101]		$C_4H_5N_9O_5$	-34.0	48.6	1.815	1.763			1.761	349.86	415.1		2.5663	8748	354	8998	384	8371	312	8610	8682	350	1.762	8716	326
445	[101]		$C_4H_6N_{10}O_5$	-35.0	51.1	1.847	1.746			1.766	519.39	473.0		2.3862	8384	340	9297	411	8677	339	8892	8812	363	1.756	9060	358
446	[101]		$C_4H_5N_9O_6$	-26.2	45.8	1.844	1.785			1.757	402.73	273.8		2.5062	8695	357	9383	419	8747	344	8913	8934	373	1.771	8954	357
447	[101]		$C_5H_7N_{11}O_5$	-45.2	51.2	1.677	1.722			1.746	309.89	429.4		2.2322	7419	258	8964	380	7576	244	7951	7978	294	1.734	7990	247
448	[101]		$C_5H_8N_{12}O_5$	-45.5	53.2	1.670	1.709			1.751	502.18	441.3		2.1522	7202	246	9033	387	7771	256	8120	8032	296	1.730	8187	258
449	[101]		$C_5H_8N_{12}O_6$	-38.5	50.6	1.676	1.730			1.765	468.58	464.9		2.1922	7319	252	9196	402	7932	267	8238	8171	307	1.748	8256	270

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
450	[101]		$C_6H_5N_{11}O_5$	-48.8	49.5	1.720	1.751			1.770	620.12	654.9		2.4121	8008	296	8778	363	7773	261	8084	8161	307	1.760	8197	271
451	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.748	1.737			1.774	719.34	712.8		2.4322	8157	309	8853	370	7962	276	8261	8308	318	1.756	8424	288
452	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.716	1.737			1.784	570.70	712.8		2.3321	7795	284	8853	370	7697	255	8048	8098	303	1.760	8151	263
453	[102]		$C_4H_2N_8O_6$	-18.6	43.4	1.99			1.981	1.849	159.8	313.1	66.11	2.3467	8765	392	8566	343	8790	363	9006	8782	366	1.915	9457	403.9
454	[103]		$C_6H_5N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
455	[103]		$C_6H_8N_{16}O_4$	-52.1	60.9	1.69	1.705			1.724	916.8	1181.2		2.9267	9167	350	9072	390	7682	252	8171	8523	331	1.715	8404	262

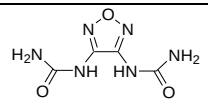
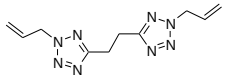
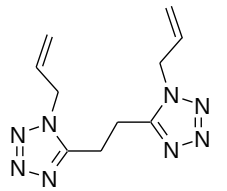
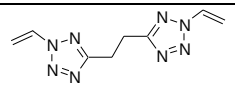
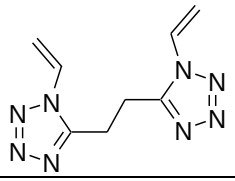
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
456	[103]		$C_6H_8N_{16}O_6$	-40.0	56.0	1.61	1.740			1.760	1062.2	803.5		2.8065	8545	302	9369	418	7853	255	8262	8507	325	1.750	8237	260
457	[103]		$C_6H_{16}N_{18}O_4$*	-63.0	63.9	1.75	1.648			1.720	1223.0	945.3		2.0985	7316	264	8793	364	7746	262	8223	8020	297	1.684	9082	313
458	[103]		$C_6H_{14}N_{22}O_4$*	-63.0	63.9	1.64	1.648			1.720	1143.3	1325.7		2.0985	6981	230	8793	364	7344	226	7893	7753	273	1.684	8396	249
459	[104]		$C_4HN_9O_3$	-39.4	56.5	1.86		1.441	2.206	1.828	744.75	878.6		2.5007	8738	363	9441	425	8378	317	8823	8845	368	1.821	9111	351.4
460	[26]		$C_2H_7N_3O_5$	-43.6	25.5	1.53			1.364	1.547	-150.0	-125.7	-191.46	2.4444	7414	233	7345	229	7676	236	7536	7493	233	1.456	8050	259
461	[38]		$C_6H_6N_6O_4$	-67.2	39.2	1.82			1.744	1.726	-38.9	11.1	156.76	2.0308	7350	278	7663	259	7393	244	7488	7474	260	1.735	7749	224
462	[38]		$C_7H_5N_3O_7$	-62.5	17.3	1.62			1.764	1.677	-252.3	-216.1	-195.28	2.2356	7242	239	6987	196	7558	237	7385	7293	224	1.720	6763	180

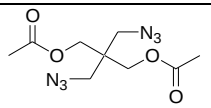
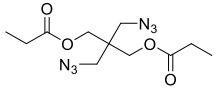
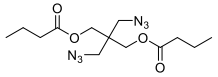
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
465	[105]		$C_6H_4N_8O_{10}$	-18.4	32.2	1.82			1.863	1.884	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.873	8674	331
466	[105]		$C_6H_4N_8O_8$	-30.4	35.4	1.84			1.874	1.853	276.6	185.4	-45.93	2.6183	8980	373	8546	341	8449	321	8493	8617	345	1.864	8669	334
467	[105]		$C_7H_4N_8O_8$	-39.0	34.1	1.79			1.870	1.840	-7.2	-3.4	-25.84	2.6909	8979	362	7994	290	7746	265	7860	8145	306	1.855	8057	273
468	[105]		$C_6H_4N_{10}O_{10}$	-17.0	37.2	1.83			1.908	1.839	113.6	179.5	97.25	2.7457	9281	387	9065	390	8460	321	8604	8852	366	1.873	8639	327
469	[105]		$C_6H_4N_{12}O_4$	-51.9	54.5	1.71		1.443	2.006	1.699	946.3	1056.6	867.77	2.5531	8324	310	8868	371	7816	263	8209	8304	315	1.571	8292	276
471	[47]		$C_4H_6N_4O_4$	-64.3	32.2	1.69			1.717	1.668	-5.7	-56.0	75.27	2.1575	7278	253	7097	206	7566	244	7483	7356	234	1.692	8394	286

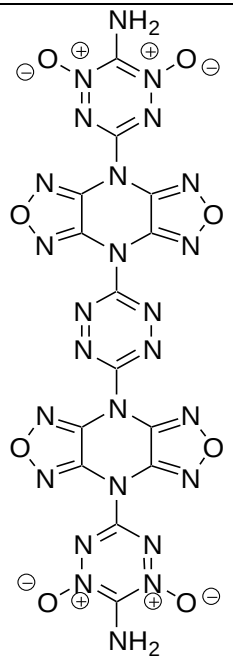
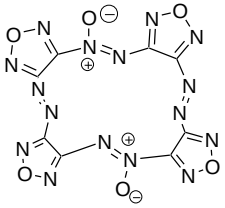
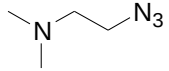
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
472	[47]		$C_5H_8N_4O_4$	-85.0	29.8	1.62			1.618	1.567	53.3	-80.6	34.29	2.0763	6867	221	6292	131	7225	217	7087	6868	190	1.593	7720	230
473	[47]		$C_8H_{12}N_4O_4$*	-126.2	24.6	1.54			1.478	1.472	107.4	-96.6	39.01	1.8399	6097	173	4706	-17	6387	164	6239	5857	160	1.475	7251	177
479	[107]		$C_4H_4N_{10}O_6$	-22.2	48.6	1.69			1.955	1.764	441	600.8	248.57	2.7337	8693	326	9054	389	8152	284	8496	8599	333	1.860	8377	286
480	[108]		$C_6H_5N_3O_5$	-76.3	21.1	1.69			1.744	1.679	-262.4	-201.8	-118.62	2.1295	7209	249	6451	146	6726	193	6635	6755	196	1.712	6553	162
481	[109]		$C_6H_5N_3O_5$	-76.3	21.1	1.78			1.744	1.679	-0.5	-201.8	-118.62	2.1295	7488	279	6451	146	7465	246	7179	7146	224	1.712	7458	225
482	[110]		$C_7H_7N_9O_{21}$	10.1	22.8	1.81			1.785	1.851	-1021	-519.9	-781.13	2.9306	9687	405	8675	353	8741	340	8702	8951	366	1.818	-	-

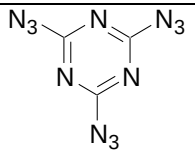
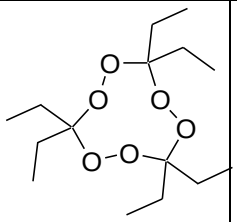
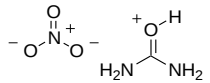
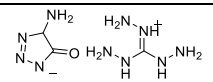
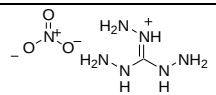
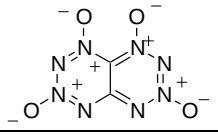
2.1.9 Molecules not containing nitro groups

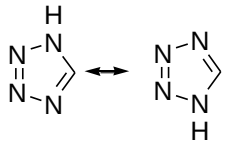
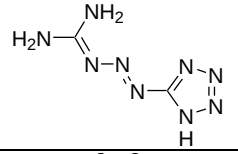
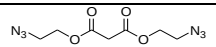
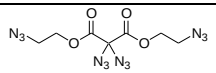
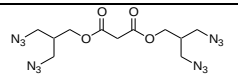
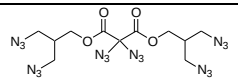
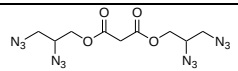
Table 20. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected molecules not containing a nitro groups at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

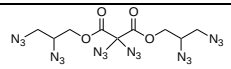
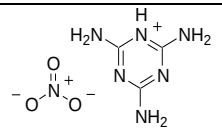
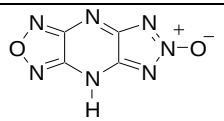
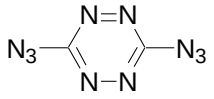
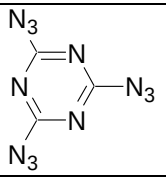
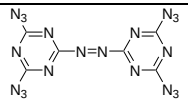
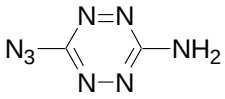
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f°(kJ/mol)	ΔH_f°(kJ/mol) Keshavarz	ΔH_f°(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	$P_{C\text{-}J}$ (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	$P_{C\text{-}J}$ (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	$P_{C\text{-}J}$ (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	$P_{C\text{-}J}$ (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	$P_{C\text{-}J}$ from reference [kbar]
8	[25]		$C_4H_6N_6O_3$*	-68.8	45.2	1.95			1.742	1.697	-162	-261.1	30.18	1.9647	7547	311	6885	186	7281	246	7590	7326	248	1.720	8283	245
12	[30]		$C_{10}H_{14}N_8$*	-175,4	45.5	1.2				1.255	605	602.3	661.55	1.9663	5408	105	-	-	4514	68	5243	5055	86	-	6148	99
13	[30]		$C_{10}H_{14}N_8$*	-175.4	45.5	1.2				1.255	622	602.3	661.55	1.9663	5408	105	-	-	4535	69	5257	5067	87	-	6167	99
14	[30]		$C_8H_{10}N_8$*	-154.0	51.4	1.4				1.324	635	651.5	702.83	2.1287	6310	164	-	-	5284	105	5843	5812	134	-	7109	148
15	[30]		$C_8H_{10}N_8$*	-154.0	51.4	1.4				1.324	643	651.5	702.83	2.1287	6310	164	-	-	5296	106	5852	5819	135	-	7132	149

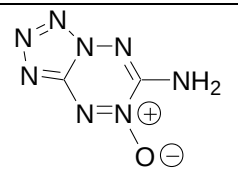
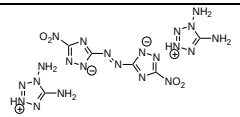
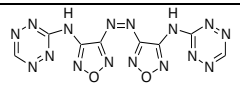
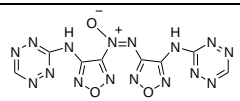
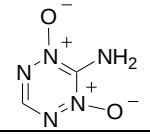
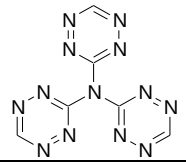
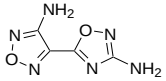
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
26	[35]		$C_9H_{14}N_6O_4$*	-124.3	31.1	1.21		1.226	1.443	1.280	-242	-65.3	-108.82	2.0063	5507	109	4203	-64	4912	81	5434	4828	28		5420	79
27	[35]		$C_{11}H_{18}N_6O_4$*	-144.8	28.2	1.16		1.171	1,335	1.230	-296	-114.5	-150.10	1.8439	5088	89	3458	-133	4553	68	5124	4556	12	1.316	5292	72
28	[35]		$C_{13}H_{22}N_6O_4$*	-161.8	25.8	1.09		1.123	1.245	1.192	-349	-163.6	-191.38	1.6815	4648	68	2842	-191	4185	54	4852	4130	-34	1.251	5048	62

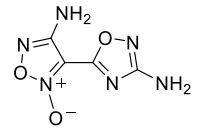
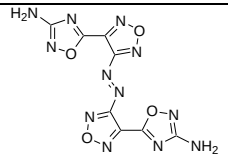
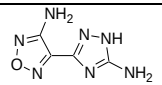
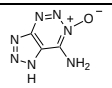
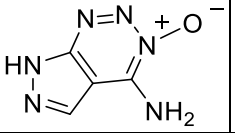
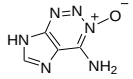
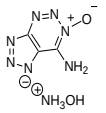
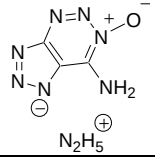
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
42	[38]		$C_{14}H_4N_{26}O_8$	-53.0	54.8	1.903				1.893	2128	2178.2		2.9857	10236	459	8854	370	8184	307	8559	8958	379	-	8700	320
43	[38] [39]		$C_8N_{16}O_6$	-38.4	53.8	1.761				1.786	1702.27	1722.0		2.8875	9368	377	9283	410	8217	296	8696	8891	361	-	9368	377
46	[24]		$C_4H_{10}N_4$	-182.2	49.1	0.933		1.140		1.109	277	279.1	239.44	2.1833	4940	63	-	-	4252	49	5168	4787	56	1.124	5730	73

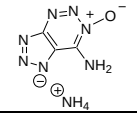
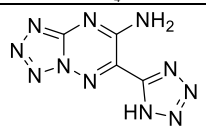
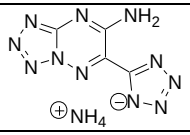
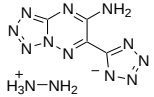
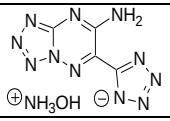
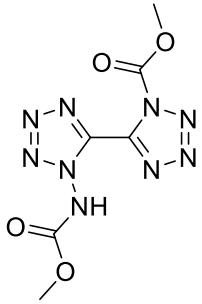
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
47	[24] [40]		C_3N_{12}*	-47.0	82.3	1.73				1.563	914.6/1053	1412.8	1100.11	2.4829	8221	309	-	-	7403	237	8458	8027	273	-	7866	226
49	[42]		$C_{15}H_{30}O_6$*	-198.3	0.0	1.25				1.124	-583.8	-744.8	-1104.05	1.4425	4600	79	714	-389	4462	69	4599	3594	-120	-	6322	114
50	[43]		$CH_5N_3O_4$	-6.5	17.7	1.655	1.729			1.709	-546.7	-464.3		2.3594	7705	271	8428	330	7218	221	7777	7782	274	1.719	7958	236
52	[45]		$C_2H_{12}N_{10}O$*	-86.2	68.6	1.569	1.463			1.555	743.27	310.0		1.7316	5928	168	3623	-118	7715	242	8102	6342	146	1.509	9492	318
53	[38]		$CH_9N_7O_3$*	-33.5	58.7	1.509	1.590			1.714	-69.2	-1073.4		1.9994	6364	181	8827	368	7487	222	8013	7673	257	1.652	8893	279
57	[46]		$C_2N_8O_4$	0.0	56.0	1.96				2.063	206	401.1		2.7687	9865	451	10734	545	8751	357	9379	9682	451	-	9287	368

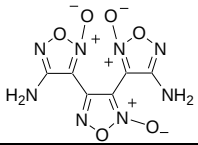
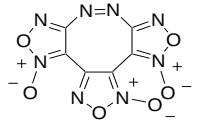
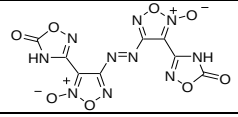
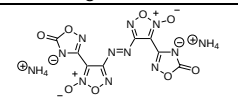
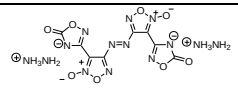
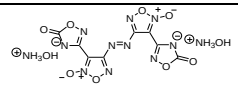
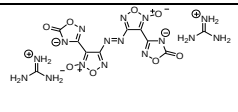
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
58	[38]		CH_2N_4*	-68.5	80.0	1.529				1.582	237.07	303.2	268.59	2.3340	7165	221	-	-	6781	184	7710	7219	202	-	7831	210
63	[38]		$C_2H_5N_9$*	-67.0	81.3	1.64				1.538	382	633.1	423.71	2.1675	7964	326	-	-	7514	259	8526	8001	292	1.768	9729	338
84	[51]		$C_7H_{10}N_6O_4$*	99.1	34.7	1.38		1.292		1.348	-176	174.0	-58.79	2.1687	6329	162	5120	22	5648	119	6039	5784	101	1.320	6192	118
85	[51]		$C_7H_8N_{12}O_4$	-69.1	51.8	1.49		1.410		1.437	542	936.5	528.06	2.3181	6999	208	7209	217	6660	174	7135	7001	200	1.423	6974	170
86	[51]		$C_9H_{12}N_{12}O_4$*	-109.4	44.2	1.38		1.323		1.318	466	838.2	443.69	1.9933	5977	148	5598	66	5880	129	6278	5933	114	1.321	6576	160
87	[51]		$C_9H_{16}N_{18}O_4$*	-86.5	54.5	1.51		1.413		1.382	1187	1600.6	1030.54	2.1427	6681	196	6978	195	6695	178	7122	6869	190	1.397	7147	181
88	[51]		$C_8H_{12}N_{12}O_4$*	-90.8	47.7	1.30		1.361		1.370	440	887.3	484.97	2.1557	6052	141	6340	135	5809	120	6350	6138	132	1.365	6252	119

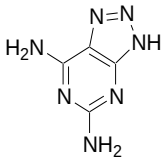
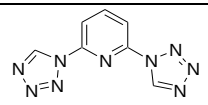
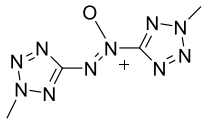
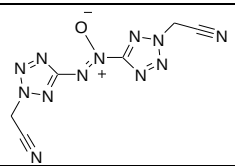
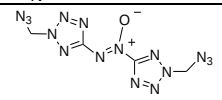
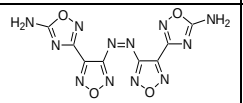
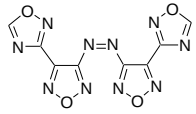
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
89	[51]		$C_8H_{10}N_{18}O_4$*	-70.0	58.1	1.50		1.446		1.433	1160	1649.8	1071.82	2.3051	7004	209	7669	260	6816	183	7346	7209	217	1.440	7087	178
134	[62]		$C_3H_7N_7O_3$*	-55.0	51.8	1.65	1.639			1.684	-173.7	-149.1		2.0588	6916	228	8386	326	6763	192	7406	7368	249	1.661	7455	193
137	[63]		$C_4HN_7O_2$	-58.1	54.7	1.85				1.870	597	475.7	521.64	2.4133	8467	346	8748	360	7913	282	8314	8360	329	-	8532	324
145	[40]		C_2N_{10}	-39.0	85.4	1.62		1.280		1.566	1130	1206.1	867.21	2.5095	7887	271	-	-	8023	267	8987	8299	269	1.423	8306	265
146	[40]		C_3N_{12}*	-47.0	82.3	1.74				1.563	1053	1412.8	1100.11	2.4829	8257	313	-	-	7699	258	8680	8212	286	-	8308	269	
147	[40]		C_6N_{20}*	-54.5	79.5	1.67				1.481	2171	2022.5	1747.35	2.5971	8282	301	-	-	7691	250.5	8582	8185	275.8	-	8306	264	
148	[40]		$C_2H_2N_8$*	-57.9	81.1	1.68				1.554	686.2	882.8	603.20	2.3548	7728	274	-	-	7664	250	8502	7965	262	-	8449	270	

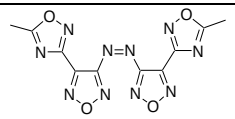
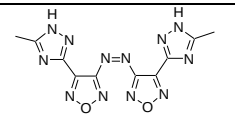
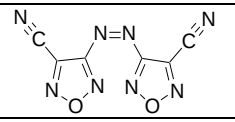
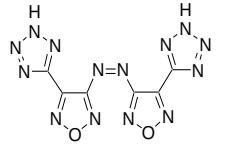
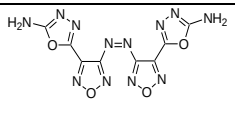
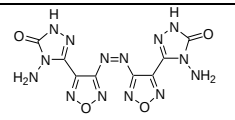
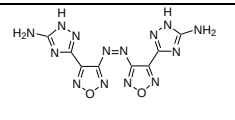
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
149	[40]		$C_2H_2N_8O$	-41.5	72.7	1.874				1.839	631.4	713.5		2.5414	8885	374	9359	417	8550	332	9206	9000	374	-	9326	364
161	[66]		$C_6H_{16}N_{22}O_4$*	-45.8	67.8	1.79	1.706			1.744	967.7	1267.0		2.4611	8381	329	9565	436	7826	271	8494	8566	345	1.725	8702	294
162	[67]		$C_6H_4N_{16}O_2$	-71.9	62.9	1.67				1.609	1654.3	1283.9	895.13	2.5129	8078	290	8373	325	7457	236	7996	7976	284	-	8075	251
163	[67]		$C_6H_4N_{16}O_3$	-64.5	60.2	1.75				1.657	1517.6	1313.8		2.5529	8471	326	8644	350	7752	262	8223	8272	313	-	8401	283
164	[67]		$C_2H_2N_6O_2$	-43.4	54.3	1.77				1.786	237.2	270.2		2.3601	8050	307	8799	365	8145	291	8466	8365	321	-	8640	302
165	[67]		$C_6H_3N_{13}$*	-84.0	70.8	1.73				1.517	1386.2	1405.1	1003.43	2.5670	8433	320	-	-	7415	238	8053	7967	279	-	8322	264
191	[71]		$C_4H_4N_6O_2$	-76.1	50.0	1.680				1.716	186.6	246.9	155.73	2.2787	7542	265	7458	240	6820	198	7227	7262	234	-	7459	204

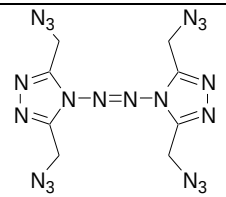
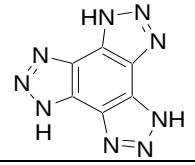
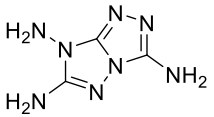
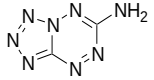
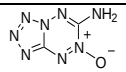
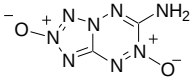
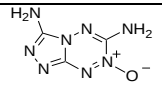
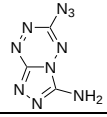
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
192	[71]		$C_4H_4N_6O_3$	-60.8	45.6	1.788				1.819	185.9	184.97		2.3187	8004	308	8085	298	7576	254	7787	7863	287	-	8193	268
193	[71]		$C_8H_4N_{12}O_2$	-67.4	50.6	1.652				1.716	705.5	868.1	334.43	2.4981	7976	282	8192	308	6964	204	7405	7634	265	-	7547	216
194	[71]		$C_4H_5N_7O^*$	-91.0	58.7	1.716				1.685	290.8	279.8	325.54	2.1587	7362	261	5873	92	6698	193	7229	6790	182	-	7798	215
225	[79]		$C_2H_3N_7O^*$	-67.9	64.0	1.815				1.789	537.4	535.8		2.3400	8151	321	7641	257	7868	276	8330	7998	285	-	8792	303
226	[79]		$C_4H_4N_8O^*$	-94.7	55.2	1.772				1.721	418.9	361.3		2.2387	7744	291	5901	95	7155	225	7467	7067	204	-	8271	256
227	[79]		$C_4H_4N_8O^*$	-94.7	55.2	1.743				1.721	368.3	361.3		2.2387	7650	281	5901	95	6943	210	7309	6951	195	-	8008	233
228	[79]		$C_4H_8N_8O_2^*$	-60.2	60.2	1.772	1.643			1.677	282.7	394.8		2.3929	8141	313	8155	305	7686	260	8136	8030	293	-	8607	280
229	[79]		$C_2H_7N_9O^*$	-73.5	68.1	1.800	1.584			1.515	625.0	689.2		2.2729	7726	285	6237	126	7594	251	8128	7421	221	1.550	9385	336

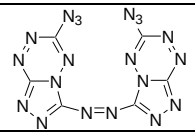
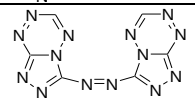
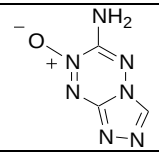
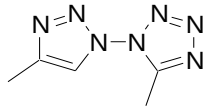
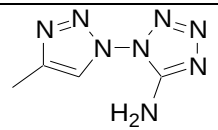
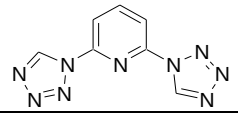
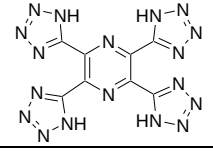
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
230	[79]		$C_3H_7N_9O^*$	-75.2	65.9	1.740	1.595			1.635	474.1	520.3		2.4530	8182	309	6295	131	7622	252	8093	7548	231	1.615	8744	282
232	[80]		$C_4H_5N_{11}^*$	-74.1	75.1	1.795				1.714	866.5	1070.2	804.38	2.4674	8415	332	-	-	7446	246	8195	8019	289	-	8367	256
236	[80]		$C_4H_6N_{12}$	-79.2	75.7	1.725	1.615			1.608	739.5	1073.6		2.5804	8448	320	-	-	7117	219	7909	7825	270	1.611	8313	249
237	[80]		$C_4H_7N_{13}^*$	-77.6	76.8	1.742	1.605			1.622	882.1	988.9		2.4003	8055	302	-	-	7432	240	8161	7883	271	1.614	8679	276
238	[80]		$C_4H_6N_{12}O$	-67.2	70.6	1.751	1.651			1.614	785.7	7576		2.5203	8392	322	7414	236	7576	253	8242	6221	270	1.633	8618	280
241	[82]		$C_8H_7N_9O_4$	-68.4	46.8	1.64				1.590	325.5	301.3	80.14	2.3711	7630	262	7063	203	7122	212	7409	7306	226	-	7403	201

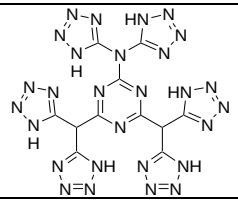
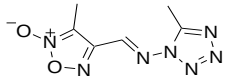
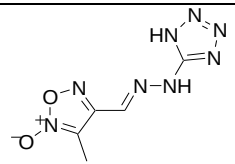
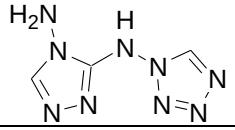
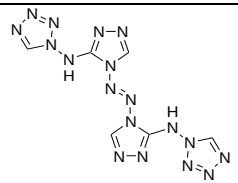
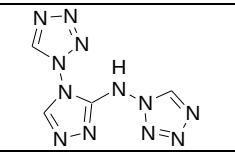
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
242	[83]		$C_6H_4N_8O_6$	-45.0	39.4	1.787				1.953	492.8	199.0		2.4847	8432	331	8485	336	8145	293	8248	8328	320	-	8480	310
243	[83]		$C_6N_8O_6$	-34.3	40.0	1.895				2.017	894.9	501.5		2.6993	9412	409	8830	368	8716	347	8936	8974	375	2.076	9417	396
245	[84]		$C_8H_5N_{10}O$	-39.3	38.3	1.90				1.925	633.44	313.9		2.6179	9207	399	7922	283	8368	321	8485	8496	334	-	8891	347
246	[84]		$C_8H_{11}N_{12}O_8$	-48.0	42.0	1.65	1.743			1.762	534.88	560.1		2.8439	8798	323	7946	285	7647	246	7647	8058	285	1.752	8234	273
247	[84]		$C_8H_{16}N_{14}O_8$	-48.3	45.6	1.71	1.723			1.768	887.15	295.6		2.4837	8151	301	8700	356	8099	282	8255	8301	313	1.746	8453	293
248	[84]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.72	1.773			1.794	666.58	-7.8		2.7237	8787	337	8206	310	8234	293	8326	8388	313	1.784	8445	307
249	[84]		$C_{11}H_{12}N_{16}O_8$	-59.5	46.3	1.65	1.695			1.744	504.79	398.5		2.1757	7196	242	7892	280	6871	198	7293	7313	240	1.720	8150	267

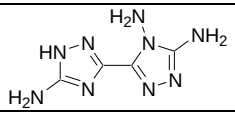
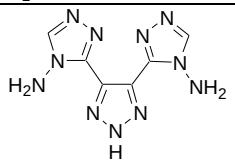
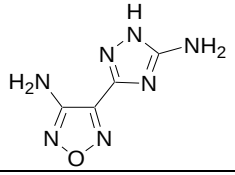
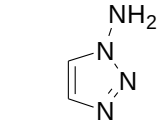
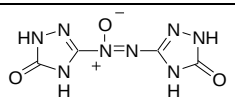
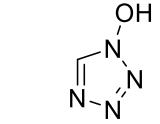
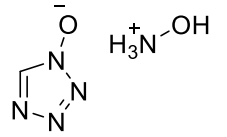
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
270	[90]		$C_4H_5N_7$*	-111.2	64.9	1.67			1.873	1.638	361	433.8	463.70	2.1187	7121	241	-	-	6163	161	6875	6720	201	1.756	7426	181.6
283	[92]		$C_7H_5N_9$*	-122.7	58.6	1.59				1.518	882.5	941.3	753.40	2.3910	7504	247	-	-	6188	157	6707	6800	202	1.724	7120	172
297	[93]		$C_6H_8N_{10}O$*	-76.1	66.7	1.57				1.534	519.8	1006.6		2.5265	7743	256	6736	172	6729	184	7423	7158	204	-	7465	190
298	[93]		$C_6H_5N_{12}O$	-79.9	64.6	1.58				1.554	869.0	1288.7		2.4331	7566	249	7446	239	6635	180	7318	7241	223	-	7262	187
300	[93]		$C_4H_4N_{16}O$*	-49.3	76.7	1.59		1.400		1.597	682.3	1799.7		2.6759	8162	279	9067	390	6631	180	7745	7901	283	1.498	7228	177
305	[95]		$C_6H_4N_{12}O_4$	-67.4	50.6	1.85				1.716	711.2	828.5	334.43	2.4981	8695	359	7919	283	7541	256	7855	8002	299	-	8445	283
306	[95]		$C_6H_2N_{10}O_4$	-68.8	46.4	1.68				1.684	832.9	807.7	289.79	2.6581	8469	312	7700	262	7135	216	7496	7700	263	-	7685	227

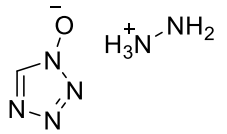
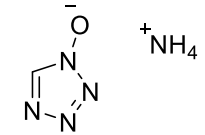
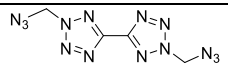
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
307	[95]		$C_{10}H_6N_{10}O_4$	-92.1	42.4	1.75				1.567	696.5	835.2	225.57	2.4957	8326	318	6730	172	6971	212	7136	7291	234	-	7781	226
308	[95]		$C_{10}H_8N_{12}O_2$	-107.2	51.2	1.81				1.540	864.3	1019.7	565.19	2.2557	7912	307	6358	137	6891	211	7137	7074	218	-	8482	264
309	[95]		$C_6N_8O_2$	-74.0	51.8	1.62				1.613	933.9	810.9	654.87	2.3927	7612	258	8220	311	6980	202	7509	7580	257	-	7640	218
310	[95]		$C_6H_2N_{14}O_2$	-58.2	64.9	1.69				1.715	1224.3	1301.6	736.27	2.6207	8415	311	9053	389	7486	239	8118	8268	313	-	8477	280
311	[95]		$C_6H_4N_{12}O_4$	-67.4	50.6	1.83				1.716	684.1	828.5	266.14	2.4981	8622	350	7645	257	7451	249	7785	7876	285	-	8323	273
312	[95]		$C_6H_6N_{14}O_4$	-66.3	54.1	1.68				1.790	769.9	793.8	427.17	2.3381	7687	272	7951	286	7140	217	7590	7592	258	-	7774	224
313	[95]		$C_6H_6N_{14}O_2$*	-82.4	59.4	1.79				1.685	920.8	262	674.05	2.2581	7853	300	7693	262	7180	228	7645	7593	263	-	8458	262

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
317	[95]		C_8H_8 N_{20}*	-83.3	72.9	1.53		1.360		1.462	1940	2170.5	1601.87	2.4203	7361	231	-	-	6962	194	7657	7327	212	1.411	7690	209
337	[96]		C_6H_3 N_9	-107.4	62.7	1.77				1.811	463.0	915.2	774.94	2.3185	7943	302	-	-	5902	153	6725	6857	228	-	7160	194
339	[96]		C_3H_6 N_8	-93.4	72.7	1.73				1.774	470.5	453.8	501.24	2.2128	7542	273	-	-	7087	217	7751	7460	245	-	8580	259
347	[96]		C_2H_3 N_8O	-57.9	81.1	1.68				1.714	686.2	867.5	568.83	2.5014	8086	292	-	-	7664	250	8502	8084	271	-	8449	270
348	[96]		C_2H_2 N_8O	-41.5	72.7	1.87				1.839	631.4	805.5		2.5414	8885	374	9359	417	8551	332	9207	9000	374	-	9326	364
349	[96]		C_2H_2 N_8O_2	-28.2	65.9	1.93				1.955	576.0	743.4		2.5814	9219	406	10037	480	8979	372	9517	9438	419	-	9600	413
354	[96]		C_2H_4 N_8O	-66.6	66.7	1.82				1.794	492.0	541.4		2.3601	8221	326	7457	240	7761	269	8298	7934	278	1.937	9008	347
355	[96]		C_2H_2 N_{10}	-62.9	78.6	1.74		1.270		1.674	913.6	1034.0	801.73	2.4748	8237	312	-	-	7732	260	8524	8164	286	1.472	8581	285

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
356	[96]		C_6N_{20}	-54.5	79.5	1.77		1.370		1.674	2194.6	2335.0	1626.43	2.8903	9413	381	-	-	8028	283	8889	8777	332	1.522	8690	302
359	[96]		$C_6H_2N_{14}$	-77.0	72.6	1.91				1.644	1525.2	1465.2	1053.77	2.7409	9587	423	-	-	8049	298	8676	8771	360	-	9200	348
369	[97]		$C_3H_5N_7O$	-67.9	64.0	1.70				1.768	524.3	483.5		2.4401	8007	292	7641	257	7487	240	8012	7787	263	1.937	8215	255
377	[99]		$C_6H_7N_7^+$	-130.8	59.4	1.47				1.414	699.62	812.5	481.10	2.3378	6973	203	-	-	6223	151	6701	6632	177	-	7725	245
378	[99]		$C_4H_6N_8^+$	-105.9	67.4	1.52				1.536	747.17	895.0	535.53	2.3390	7146	219			6741	181	7292	7060	200	-	7724	203
382	[99]		$C_7H_5N_9$	-122.7	58.6	1.59				1.518	882.5	941.3	753.40	2.3910	7504	247	-	-	6188	157	6707	6800	202	1.724	7120	172
390	[99]		$C_8H_4N_{18}$	-81.8	71.6	1.95				1.681	1383	1778.2	1343.61	2.4267	8856	389	-	-	7518	263	8191	8188	326	-	8655	280

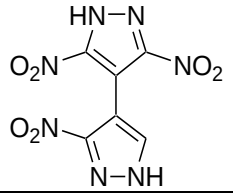
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
393	[99]		$C_{11}H_8N_{28}$	-78.1	73.7	1.88				1.664	1833.0	2719.1	2025.10	2.5203	8865	375	-	-	7280	241	8065	8070	308	-	7430	251
394	[99]		$C_6H_7N_7O_2$	-103.3	46.9	1.531				1.490	568.96	537.6		2.3438	7194	223	6118	115	6644	177	6903	6715	172	-	6900	192.4
395	[99]		$C_2H_6N_8O_2$	-83.8	53.3	1.62				1.595	760.2	525.0		2.2449	7264	241	7169	213	7407	228	7685	7381	227	-	7991	235
396	[99]		$C_3H_5N_9$	-81.4	75.4	1.65				1.662	862.9	550.5	621.111	2.3402	7591	262	-	-	7632	245	8236	7820	254	-	8789	277
397	[99]		$C_6H_6N_{18}$	-72.7	76.3	1.68				1.661	1799.4	1586.1	1265.19	2.6211	8378	307	-	-	7669	250	8357	8135	278	-	8599	276
401	[99]		$C_4H_4N_{12}$	-72.7	76.3	1.71				1.683	1256.5	964.8	908.36	2.5876	8409	315	-	-	7848	265	8514	8257	290	-	9695	284

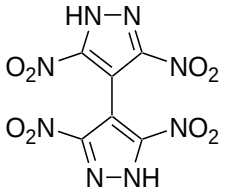
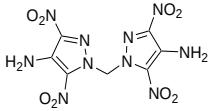
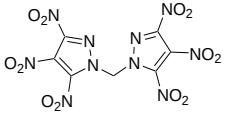
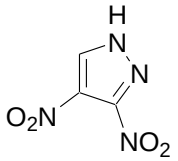
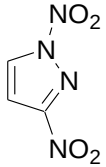
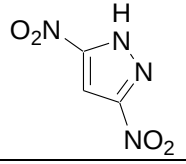
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430	[100]		$C_4H_7N_9^+$	-101.6	69.6	1.68				1.670	396.8	544.9	538.26	2.0588	7006	237	-	-	6392	174	7191	6863	206	-	7818	204
431	[100]		$C_6H_7N_{11}^+$	-106.4	66.1	1.65				1.648	763.0	784.7	772.08	2.2049	7266	246	-	-	6508	178	7128	6967	212	-	7806	207
432	[101]		$C_4H_5N_7O$	-91.0	58.7	1.596				1.685	404.03	366.9	325.54	2.1587	6986	223	5873	92	6656	182	7161	6669	166	-	6846	193
463	[24]		$C_2H_4N_4^+$	-114.2	66.6	1.441				1.523	285.6	278.6	258.07	2.2528	6697	187	-	-	6268	151	6882	6616	169	-	7767	19.5
464	[24]		$C_4H_4N_8O_3$	-52.8	52.8	1.91				1.868	11	260.3		2.1659	7991	330	7983	289	7357	249	7908	7810	289	1.901	8204	243.9
474	[106]		CH_2N_4O	-37.2	65.1	1.63			2.075	1.681	252	238.1	111.87	2.4741	7840	271	8682	354	7977	265	8516	8254	297	1.825	8405	269
475	[106]		$CH_5N_5O_2$	-33.6	58.8	1.67	1.646			1.634	343	192.2		2.4269	7869	280	8814	366	7818	259	8333	8208	302	1.785	9284	331

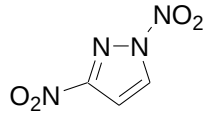
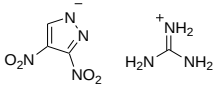
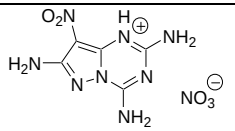
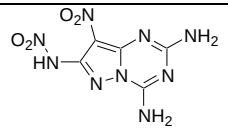
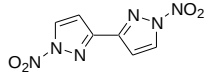
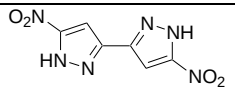
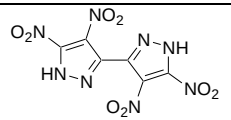
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] RoseHybrid	P_{C-J} (kbar) RoseHybrid	ρ_0 [g/cm^3] RoseHybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
476	[106]		CH_6N_8O	-54.2	71.2	1.60	1.553			1.594	259	296.3		2.3069	7343	241	6198	122	7838	253	8394	7443	205	1.574	9437	319
477	[106]		CH_5N_5O	-54.3	67.9	1.40	1.568			1.562	207	333.4		2.4870	7646	250	6287	131	7683	240	8207	7456	207	1.574	8013	213
478	[107]		$C_4H_4N_{14}$	-64.5	79.0	1.62		1.311	2.147	1.551	1258	1596.1	1130.13	2.5885	8073	281	-	-	7444	230	8238	7918	256	1.670	8155	237

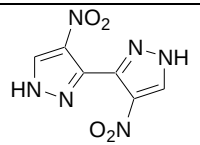
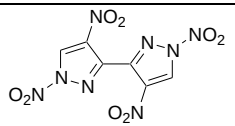
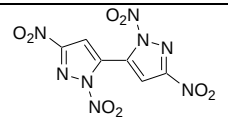
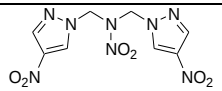
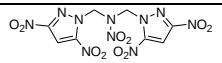
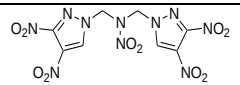
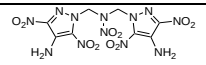
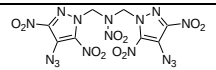
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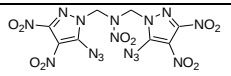
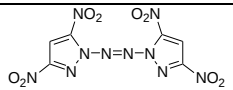
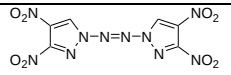
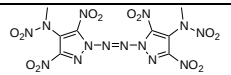
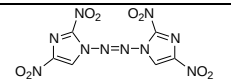
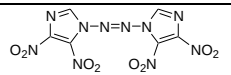
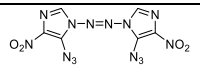
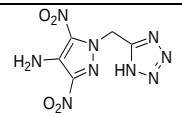
Table 21. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure (P_{C-J}), heat of formation and density for the selected diazoles at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

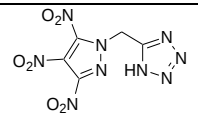
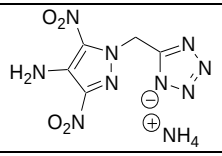
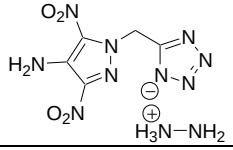
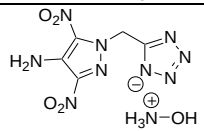
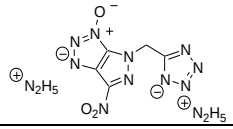
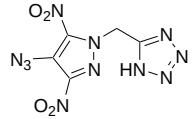
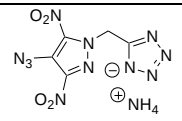
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] RoseHybrid	P_{C-J} (kbar) RoseHybrid	ρ_0 [g/cm^3] RoseHybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
6	[27]		$C_6H_3N_7O_6$	-44.6	36.4	1.855			1.897	1.854	224.9	141.1	277.16	2.3180	8228	333	8365	324	8019	290	7997	8123	313	1.876	8256	286

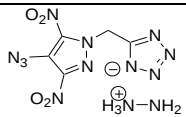
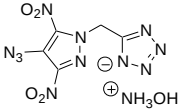
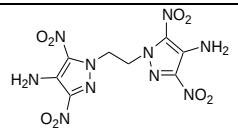
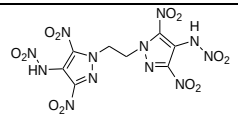
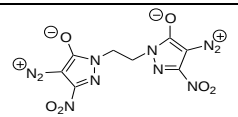
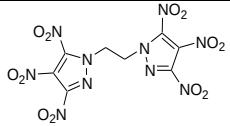
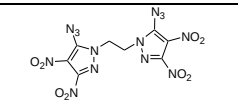
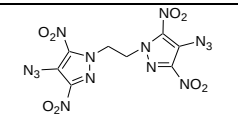
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
7	[27]		$C_6H_2N_8O_8$	-25.5	35.7	1.820			1.940	1.927	227.8	132.6	254.93	2.4253	8394	336	8908	375	8232	303	8379	8478	338	1.933	8520	311
17	[31]		$C_7H_6N_{10}O_8$	-40.2	39.1	1.802			1.858	1.838	205	224.0	320.11	2.3843	8223	323	8642	350	8016	285	8132	8253	319	1.848	8332	296
18	[31]		$C_7H_2N_{10}O_{12}$	-11.5	33.5	1.934			1.941	1.933	379	186.3	231.01	2.7589	9733	437	9201	402	9029	377	9094	9264	405	1.937	9304	391
36	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.79			1.874	1.849	124.3	29.3	117.27	2.3460	8082	313	8824	301	8257	226	8336	8375	327	1.861	8426	306
37	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8459	308
38	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.78			1.874	1.849	73.2	29.3	117.27	2.346	8048	309	8824	367	8113	290	8215	8300	322	1.861	8279	289

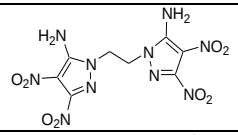
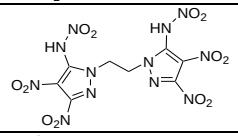
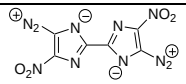
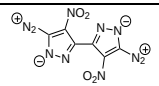
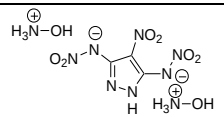
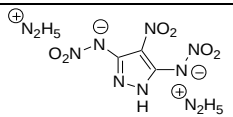
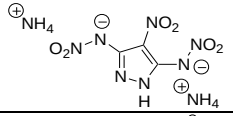
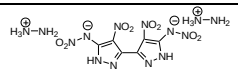
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120	[37]		$C_3H_2N_4O_4$	-30.4	35.4	1.76			1.874	1.842	189.1	106.0	137.86	2.4461	8235	315	8824	367	8295	301	8378	8433	328	1.858	8426	306
122	[37]		$C_4H_7N_7O_4$	-55.3	45.2	1.63	1.669			1.680	40.4	43.9		2.1249	7013	230	8283	317	7290	222	7560	7536	256	1.675	8369	276
135	[62]		$C_5H_7N_9O_5$	-49.8	46.1	1.82	1.817			1.816	60.0	5.8		2.1848	7758	300	8634	350	7776	270	8011	8045	307	1.817	8391	282
136	[62]		$C_5H_5N_9O_4$	-53.3	49.4	1.89				1.825	314	331.0	439.87	2.2521	8165	336	8582	345	8004	292	8242	8248	324	-	8713	319
139	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.751	413.9	321.2	340.57	2.4109	8320	330	7503	244	7718	265	7728	7817	280	1.794	8301	288
140	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.81			1.836	1.759	229.1	149.5	299.39	2.2107	7794	301	7503	244	7425	245	7481	7551	263	1.797	8026	262
141	[64]		$C_6H_2N_8O_8 H2O$	-25.5	35.7	1.84			1.940	1.927	42.7	132.6	254.93	2.4253	8464	344	8908	375	8079	293	8251	8426	337	1.933	8556	323

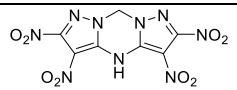
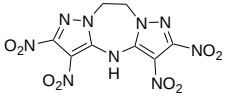
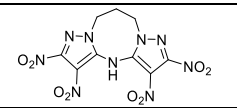
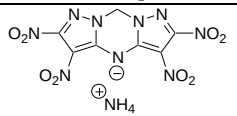
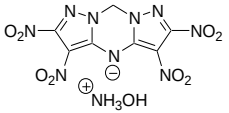
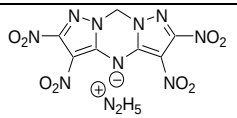
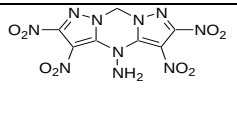
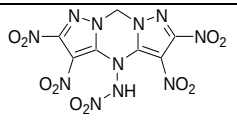
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
142	[64]		$C_6H_4N_6O_4$	-71.4	37.5	1.83			1.836	1.759	221	149.5	299.39	2.2107	7858	308	7503	244	7469	250	7512	7586	267	1.797	8120	269
143	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.85			1.940	1.920	407.1	304.4	296.11	2.6255	9037	378	8908	375	8523	327	8631	8775	360	1.980	8869	345
144	[64]		$C_6H_2N_8O_8$	-25.5	35.7	1.855			1.940	1.920	444.1	304.4	296.11	2.6255	9057	380	8908	375	8578	332	8680	8806	362	1.980	8926	354
150	[65]		$C_9H_8N_8O_6$	-71.8	35.9	1.69			1.745	1.663	377.2	367.6	362.89	2.3759	7814	280	7486	242	7429	236	7445	7544	253	1.704	7867	251
151	[65]		$C_9H_6N_{10}O_{10}$	-35.8	34.8	1.789	1.78		1.847	1.801	388	350.8	311.60	2.5905	8680	343	8583	345	8234	299	8273	8442	329	1.824	8258	309
152	[65]		$C_9H_6N_{10}O_{10}$	-35.8	34.8	1.78			1.847	1.801	398	350.8	311.60	2.5905	8680	343	8583	345	8242	299	8280	8446	329	1.824	8265	310
153	[65]		$C_9H_8N_{12}O_{10}$	-37.0	38.9	1.86			1.839	1.820	486.4	371.6	356.24	2.4305	8549	352	8753	361	8555	331	8575	8608	348	1.829	8639	347
154	[65]		$C_9H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1108.2	1220.5	884.26	2.7399	9265	386	9339	415	8619	333	8880	9026	378	1.716	8717	351

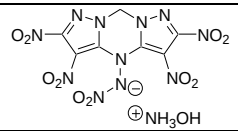
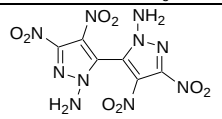
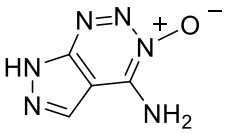
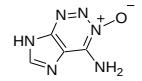
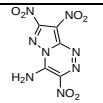
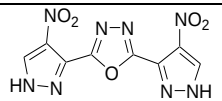
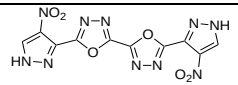
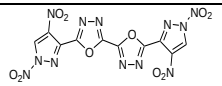
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
155	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1118.7	1220.5	884.26	2.7399	9265	386	9339	415	8626	333	8886	9029	378	1.716	8724	352
166	[68]4		$C_6H_2N_{18}O_8$	-23.4	40.9	1.81			1.983	1.852	687.6	677.3	343.33	2.6729	9010	368	9202	403	8559	326	8773	8886	366	1.917	8298	348
167	[68]5		$C_6H_2N_{18}O_8$	-23.4	40.9	1.82			1.983	1.852	687.6	677.3	343.33	2.6729	9048	372	9202	403	8592	330	8801	8911	368	1.917	8964	351
168	[68]6		$C_8H_6N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	789.2	849.9	392.65	2.7653	9212	377	9200	402	8654	332	8790	8964	370	1.864	8834	346
169	[68]7		$C_6H_2N_{18}O_8$	-23.4	40.9	1.85			1.983	1.852	591.8	493.3	343.33	2.6729	9165	385	9202	403	8600	333	8799	8942	374	1.917	8979	356
170	[68]8		$C_6H_2N_{18}O_8$	-23.4	40.9	1.83			1.983	1.852	612.4	493.3	343.33	2.6729	9087	376	9202	403	8554	328	8762	8901	369	1.917	8932	351
172	[68]		$C_4H_2N_{14}O_4$	-43.1	58.7	1.77		1.470		1.712	1169.1	1379.9	960.45	2.6077	8687	342	9365	418	8056	285	8557	8666	348	1.591	8702	314
173	[69]		$C_2H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	347.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300

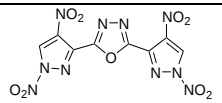
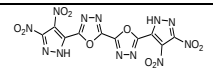
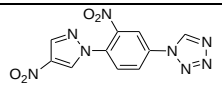
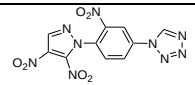
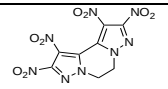
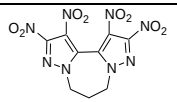
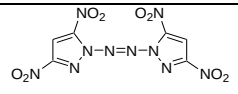
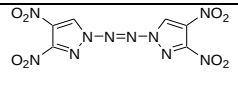
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
174	[69]		$C_5H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	376.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345
175	[69]		$C_5H_6N_{10}O_6$	-58.8	51.5	1.68	1.669			1.659	422.3	535.3		2.4652	7998	288	8433	331	7614	247	7900	7986	289	1.664	8153	251
176	[69]		$C_5H_7N_{11}O_6$*	-58.5	53.6	1.65	1.812			1.668	573.8	450.6		2.2851	7458	255	8521	339	7696	249	7992	7917	281	1.740	8264	256
177	[69]		$C_5H_6N_{10}O_7$	-50.0	48.6	1.75	1.695			1.685	470.2	298.9		2.4051	8096	306	8696	355	8118	287	8293	8301	316	1.690	8592	298
178	[69]		$C_5H_{14}N_{14}O_3$*	-77.5	59.4	1.69	1.604			1.658	883.2	642.1		2.3519	7755	277	8342	322	7914	267	8269	8070	289	1.631	8778	289
179	[69]		$C_5H_3N_{11}O_4$	-42.7	54.8	1.812		1.473	2.031	1.741	782.1	873.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
180	[69]		$C_5H_6N_{12}O_4$	-48.3	56.4	1.64	1.725			1.657	793.0	965.9		2.6199	8223	292	9028	386	7740	251	8150	8285	310	1.691	8167	258

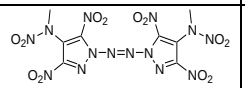
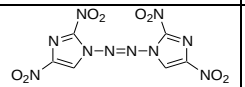
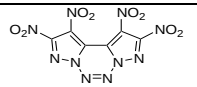
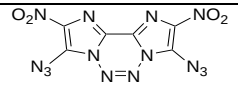
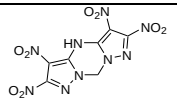
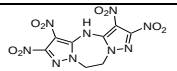
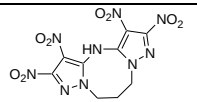
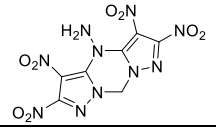
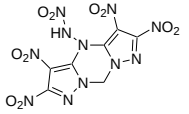
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
181	[69]		$C_5H_7N_{13}O_4$	-48.5	58.1	1.72	1.712			1.665	937.1	928.7		2.4398	8077	299	9081	391	8137	286	8503	8450	325	1.688	8640	297
182	[69]		$C_5H_6N_{12}O_5$	-40.7	53.5	1.76	1.746			1.659	834.3	824.6		2.5598	8526	331	9210	403	8354	305	8652	8686	346	1.703	8747	322
183	[70]		$C_6H_6N_{10}O_8$	-51.6	37.6	1.77				1.799	1.768	218.9	291.4	299.47	2.3031	7903	299	8238	313	7815	268	7871	7957	293	1.784	8189	279
184	[70]		$C_6H_6N_{12}O_{12}$	-24.2	36.4	1.84				1.877	1.862	380.6	305.2	317.31	2.5177	8711	357	9000	384	8588	331	8650	8737	357	1.869	8753	343
185	[70]		$C_6H_4N_{10}O_6$	-57.1	41.7	1.72	1.765			1.926	1.724	441.9	625.9		2.4377	8072	299	8180	307	7352	233	7599	7801	280	1.805	7803	242
186	[70]		$C_6H_4N_{10}O_{12}$	-22.2	32.4	1.84				1.887	1.863	306.9	253.7	210.37	2.6777	9139	382	8852	370	8551	329	8588	8782	360	1.875	8759	341
187	[70]		$C_6H_4N_{14}O_8$	-37.7	46.2	1.78		1.543	1.983	1.750	1233.9	1140.3	827.49	2.6125	8737	347	8991	383	8398	311	8651	8694	347	1.647	8797	334
188	[70]		$C_6H_4N_{14}O_8$	-37.7	46.2	1.76		1.543	1.983	1.750	1013.9	1140.3	827.49	2.6125	8661	338	8991	383	8170	292	8444	8566	338	1.647	8558	310

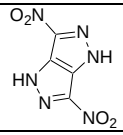
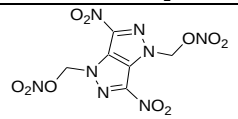
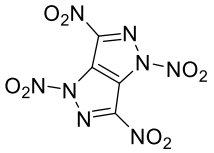
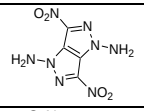
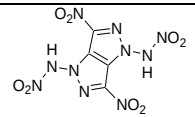
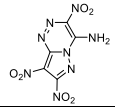
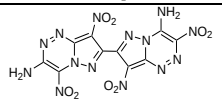
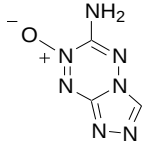
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
189	[70]		$C_8H_8N_{10}O_8$	-51.6	37.6	1.75			1.799	1.768	237.9	291.4	299.47	2.3031	7836	292	8238	313	7772	263	7839	7921	289	1.784	8127	273
190	[70]		$C_8H_6N_{12}O_{12}$	-24.2	36.4	1.83			1.877	1.862	368.1	305.2	317.31	2.5177	8675	353	9000	384	8546	327	8615	8709	355	1.869	8710	337
195	[72]		$C_6N_{10}O_4$	-46.4	50.7	1.830	1.829		2.112	1.757	819.7	707.1		2.5201	8681	354	8964	380	7927	281	8344	8479	338	1.899	8653	311
196	[72]		$C_6N_{10}O_4$	-46.4	50.7	1.850	1.829		2.112	1.757	987.2	707.1		2.5201	8754	362	8964	380	8189	302	8580	8622	348	1.899	8943	340
204	[74]		$C_3H_9N_9O_8$	-13.4	42.1	1.90	1.757			1.757	95.7	-165.2		2.3991	8603	364	9719	451	9368	402	9370	9265	406	1.757	9394	400
205	[74]		$C_3H_{11}N_{11}O_8$	-29.6	51.8	1.87	1.684			1.721	300.2	138.2		2.1591	7847	314	9570	437	9061	373	9198	8919	375	1.703	9581	385
206	[74]		$C_3H_9N_9O_7$	-27.0	47.2	1.80	1.710			1.707	-22.7	260.0		2.5193	8569	341	9451	426	8479	319	8666	8791	362	1.708	8842	326
207	[74]		$C_6H_{12}N_{14}O_8$	-39.2	48.0	1.85	1.707			1.757	498.0	297.5		2.1311	7709	303	9139	397	8654	338	8765	8567	346	1.732	9118	352

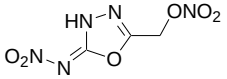
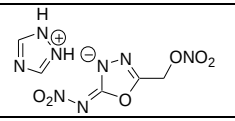
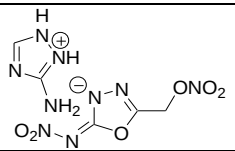
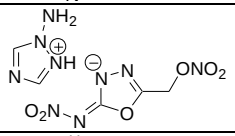
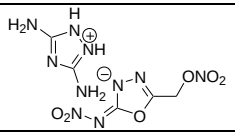
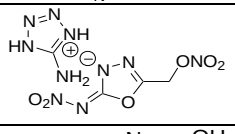
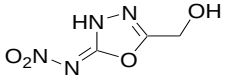
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210	[75]		$C_7H_5N_9O_8$	-35.2	37.0	1.895			2.014	1.932	375.3	207.9	445.16	2.4715	8785	373	8664	352	8400	323	8475	8562	349	1.973	8792	343
211	[75]		$C_6H_5N_9O_8$	-47.3	35.5	1.80			1.949	1.847	301.9	275.3	418.36	2.3903	8232	323	8240	313	7908	277	7964	8086	304	1.898	8257	292
212	[75]		$C_6H_7N_9O_8$	-58.5	34.1	1.760			1.890	1.775	299.1	250.7	391.56	2.3091	7885	297	7847	276	7671	258	7680	7771	277	1.833	8051	272
213	[75]		$C_7H_6N_{10}O_8$	-40.2	39.1	1.82	1.775			1.836	347.5	319.1		2.5845	8815	359	8642	350	8218	302	8296	8493	337	1.805	8518	317
214	[75]		$C_7H_6N_{10}O_9$	-34.2	37.4	1.86	1.791			1.853	392.9	177.8		2.5244	8802	367	8759	361	8549	331	8572	8670	353	1.822	8893	359
215	[75]		$C_7H_7N_{11}O_8$	-40.7	41.3	1.83	1.762			1.791	496.4	377.0		2.4044	8373	337	8732	359	8384	315	8460	8487	337	1.776	8690	332
216	[75]		$C_7H_4N_{10}O_8$	-35.9	39.3	1.790			2.005	1.929	342.0	376.8	432.55	2.4916	8460	333	8758	361	8035	285	8201	8364	326	1.967	8356	296
217	[75]		$C_7H_5N_{11}O_{10}$	-21.9	38.4	1.937			2.037	1.972	521.6	399.0	441.47	2.5989	9295	412	9127	396	8890	366	8989	9075	391	2.005	9226	388

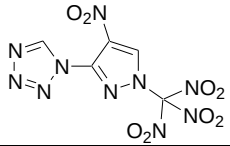
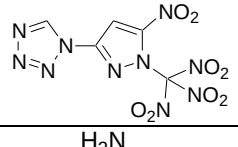
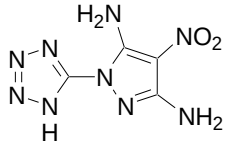
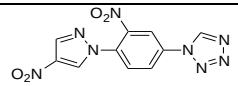
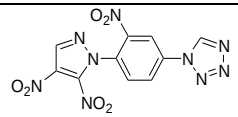
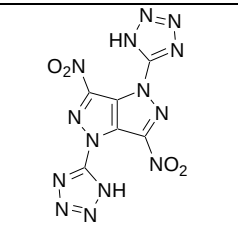
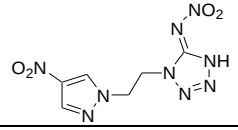
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218	[75]		$C_7H_6N_{12}O_{11}$	-22.1	38.7	1.87	1.821			1.897	573.1	533.9		2.6518	9185	391	9183	401	8894	359	8960	9056	384	1.859	9034	371
219	[76]		$C_8H_4N_{10}O_8$	-27.9	40.7	1.760 *1.811 @ 173 K*			1.922	1.921	457.8	432.5	340.75	2.4655	8285	318	9080	391	8263	299	8449	8519	336	1.922	8504	310
226	[79]		$C_4H_4N_6O^*$	-94.7	55.2	1.772				1.721	418.9	361.3		2.2387	7744	291	5901	95	7155	225	7467	7067	204	-	8271	256
227	[79]		$C_4H_4N_6O^*$	-94.7	55.2	1.743				1.721	368.3	361.3		2.2387	7650	281	5901	95	6943	210	7309	6951	195	-	8008	233
261	[86]		$C_2H_2N_8O_6$	-29.6	41.5	1.90			1.971	1.897	344	410.7	341.85	2.5194	8935	383	9062	389	8479	329	8657	8783	367	1.934	8737	326
262	[87]		$C_8H_4N_8O_5$	-71.2	38.4	1.800			1.884	1.768	521.57	327.3	365.13	2.2967	7987	309	7264	222	7508	250	7594	7588	260	1.826	8099	271.4
263	[87]		$C_{10}H_4N_{10}O_8$	-71.1	38.9	1.809			1.914	1.773	639.79	505.1	430.87	2.3827	8243	325	7098	206	7431	246	7553	7581	259	1.843	8054	265.3
264	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.831			1.972	1.903	762.11	660.0	427.59	2.7975	9423	395	8102	300	7499	252	7771	8199	316	1.976	8855	342.3

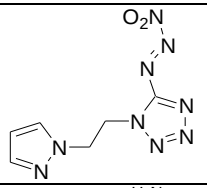
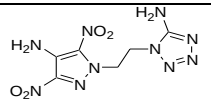
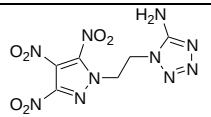
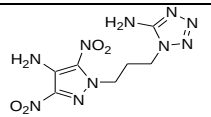
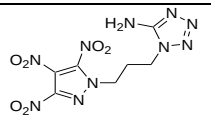
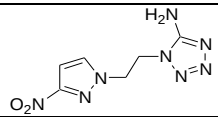
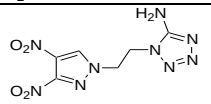
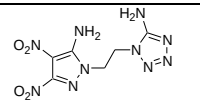
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265	[87]		$C_8H_2N_{10}O_9$	-33.5	36.7	1.844			1.959	1.897	882.44	482.2	361.85	2.7115	9245	388	8434	331	8552	329	8676	8727	349	1.920	8766	333.3
266	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.870			1.972	1.885	602,65	488.2	386.41	2.5973	9037	382	8102	300	7614	263	7859	8153	315	1.929	8710	327.5
291	[92]		$C_{10}H_6N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	584.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
292	[92]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
301	[94]		$C_8H_4N_8O_8$	-47.0	32.9	1.762			1.866	1.847	326.6	328.3	331.19	2.4703	8304	320	8123	302	7808	267	7864	8025	296	1.857	8135	281
302	[94]		$C_9H_6N_8O_8$	-58.7	31.6	1.677			1.803	1.772	280.1	211.7	304.39	2.3891	7801	277	7719	264	7392	232	7441	7588	258	1.788	7700	241
321	[95]		$C_8H_2N_{10}O_8$	-23.4	40.9	1.81			1.983	1.852	687.6	677.3	343.33	2.6729	9010	368	9202	403	8559	326	8773	8886	366	1.917	8928	348
322	[95]		$C_8H_2N_{10}O_8$	-23.4	40.9	1.82			1.983	1.852	687.6	677.3	343.33	2.6729	9048	372	9202	403	8592	330	8801	8911	368	1.917	8964	351

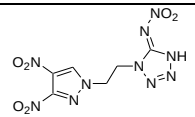
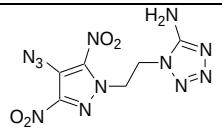
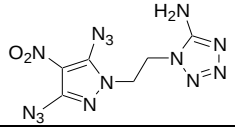
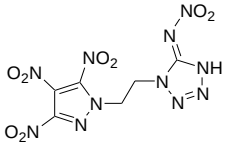
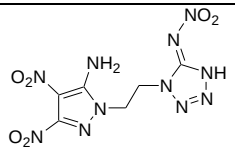
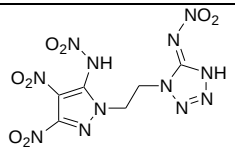
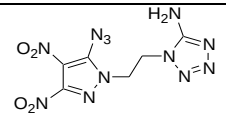
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
323	[95]		$C_8H_8N_{14}O_{12}$	-22.8	40.0	1.80			1.911	1.816	744.1	849.9	392.65	2.7653	9212	377	9200	402	8624	330	8763	8950	370	1.864	8834	346
324	[95]		$C_6H_2N_{10}O_8$	-23.4	40.9	1.85			1.983	1.852	591.8	493.3	343.33	2.6729	9165	385	9202	403	8600	333	8799	8942	374	1.917	8979	356
328	[96]		$C_6N_{10}O_8$	-18.8	41.2	1.89			2.044	1.994	758.5	735.0	495.83	2.8267	9743	427	9327	414	8797	353	9050	9229	398	2.019	9631	440
329	[96]		$C_6N_{14}O_4$	-38.5	59.0	1.89		1.470	2.171	1.835	1318.8	1437.6	1112.95	2.7615	9564	417	9561	436	8499	330	9014	9160	394	1.652	9256	367
330	[96]		$C_7H_3N_9O_8$	-35.2	37.0	1.90			2.014	1.932	375.3	207.9	445.16	2.4715	8803	375	8664	352	8415	324	8488	8592	1.973	1.973	8792	343
331	[96]		$C_7H_5N_9O_8$	-47.3	35.5	1.80			1.949	1.847	301.9	275.3	418.36	2.3903	8232	323	8240	313	7908	277	7964	8086	304	1.898	8257	292
332	[96]		$C_9H_7N_9O_8$	-58.5	34.1	1.76			1.890	1.775	299.1	250.7	391.56	2.3091	7885	297	7847	276	7671	258	7680	7771	277	1.833	8051	272
333	[96]		$C_7H_4N_{10}O_8$	-35.9	39.3	1.79			2.005	1.929	341.9	399.0	432.55	2.4916	8460	333	8758	361	8035	285	8201	8364	326	1.967	8356	296
334	[96]		$C_7H_3N_{11}O_{10}$	-21.9	38.4	1.94			2.037	1.972	521.5	521.7	441.47	2.5989	9306	413	9127	396	8900	367	8997	9082	392	2.005	9226	388

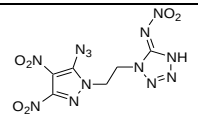
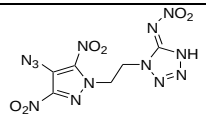
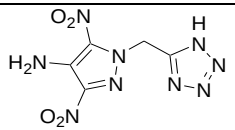
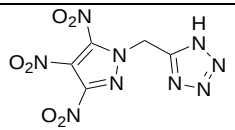
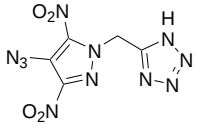
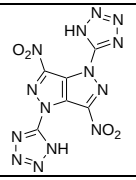
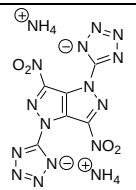
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
340	[96]		$C_4H_2N_6O_4$	-40.4	42.4	1.85			1.950	1.942	322.6	140.9	295.21	2.3659	8340	339	8781	363	8230	305	8403	8438	336	1.946	8250	274
341	[96]		$C_6H_4N_{10}O_{10}$	-18.4	32.2	1.82			1.863	1.856	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.860	8674	331
342	[96]		$C_4N_8O_8$	0.0	38.9	1.95			2.127	2.085	550.9	295.8	291.93	2.7807	9859	448	9834	462	9443	414	9663	9700	441	2.106	9460	409
343	[96]		$C_4H_4N_8O_4$	-42.1	49.1	1.84			1.921	1.930	467.0	256.9	381.03	2.4061	8413	341	8957	380	8413	318	8626	8602	346	1.925	8864	339
344	[96]		$C_4H_2N_{10}O_8$	-5.0	44.0	1.93			2.000	2.042	595.2	270.7	398.87	2.6207	9329	412	9933	471	9363	405	9594	9555	429	2.021	9507	418
361	[96]		$C_6H_6N_8O_2$	-29.6	41.5	1.95			1.971	1.897	370.0	410.7	341.85	2.5194	9118	404	9062	389	8123	307	8379	8670	367	1.934	8998	360
365	[96]		$C_{10}H_4N_{14}O_8$	-50.0	43.7	1.85			1.971	1.859	899.0	912.2	748.55	2.5575	8669	347	8484	336	7876	275	8104	8283	319	1.915	8572	314
369	[97]		$C_2H_3N_7O$	-67.9	64.0	1.70				1.768	524.3	483.5		2.4401	8007	292	7641	257	7487	240	8012	7787	263	1.937	8215	255

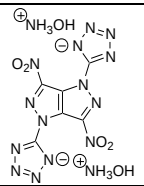
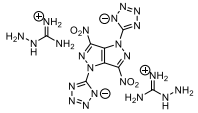
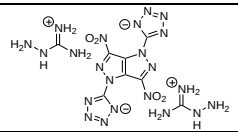
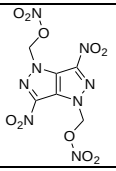
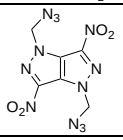
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
370	[98]		$C_2H_3N_5O_6$	-11.7	34.1	1.875			1.794	1.796	26.13	-21.4	-152.23	2.4461	8644	361	8732	359	8858	357	8880	8778	359	1.795	8855	349.9
371	[98]		$C_5H_6N_8O_6$	-40.9	40.9	1.772	1.748			1.721	569.08	163.2		2.4049	8172	314	8237	312	7815	268	7988	8053	298	1.735	8630	319.8
372	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.780	1.733			1.717	600.04	221.1		2.1783	7614	285	8361	324	8584	325	8651	8302	311	1.725	8725	321.2
373	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.802	1.733			1.707	667.09	221.1		2.2784	7946	307	8518	339	8732	338	8781	8494	328	1.720	8877	337.1
374	[98]		$C_5H_8N_{10}O_6$	-42.1	46.0	1.814	1.719			1.733	508.38	279.1		2.0983	7511	286	8622	348	7910	279	8153	8049	304	1.726	8821	321.2
375	[98]		$C_4H_6N_{10}O_6$	-27.6	48.3	1.796	1.768			1.709	784.44	308.5		2.2796	7929	305	9166	399	8990	358	9162	8812	354	1.739	9142	365.7
376	[98]		$C_3H_4N_4O_4$	-40.0	35.0	1.811			1.943	1.678	-75.57	-107.6	-161.48	2.3388	8134	320	7855	277	8042	288	8047	8020	295	1.810	8140	272.2

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
379	[99]		$C_6H_2N_{10}O_8$	-14.5	42.4	1.79			1.991	1.886	602	582.9	396.52	2.7469	9124	370	9554	435	8641	330	8898	9054	378	1.938	8860	340
380	[99]		$C_6H_2N_{10}O_8$	-14.5	42.4	1.76			1.991	1.886	629	582.9	396.52	2.7469	9005	357	9554	435	8566	321	8834	8990	371	1.938	8780	320
381	[99]		$C_4H_5N_9O$	-64.4	59.7	1.76			1.933	1.772	407.7	483.3	493.71	2.2461	7724	288	8209	310	6410	180	7360	7426	259	1.853	8257	259
383	[99]		$C_{10}H_6N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	676.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
384	[99]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
392	[99]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
402	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.65			1.818	1.649	463	602.4	405.89	2.3711	7665	266	7941	285	7337	226	7571	7628	259	1.734	7824	231

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
403	[99]		$C_6H_7N_{10}O_4$	-91.1	53.2	1.50			1.827	1.509	522.3	818.5	475.60	2.3912	7192	218	6873	185	6435	164	6895	6849	189	1.668	7041	163
404	[99]		$C_6H_8N_{10}O_4$	-67.6	49.3	1.67			1.992	1.678	373.7	565.3	450.79	2.2911	7539	263	8057	296	7277	224	7569	7610	261	1.835	7889	232
405	[99]		$C_6H_4N_{10}O_6$	-45.8	44.6	1.71			1.873	1.745	430.7	594.0	406.24	2.4784	8138	301	8689	355	7817	263	8033	8169	306	1.809	8172	271
406	[99]		$C_7H_{10}N_{10}O_4$	-80.5	47.0	1.65			1.920	1.611	364.6	540.7	430.15	2.2099	7278	246	7503	244	7069	210	7301	7288	233	1.765	7768	218
407	[99]		$C_7H_8N_{10}O_6$	-58.5	42.7	1.67			1.805	1.676	437.3	569.4	385.60	2.3972	7797	276	8205	310	7565	242	7725	7823	276	1.740	7959	247
408	[99]		$C_6H_8N_8O_2$	-99.9	50.0	1.53			1.920	1.552	355.8	610.8	450.70	2.2638	7013	214	6285	130	6330	160	6730	6590	168	1.736	7072	168
409	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.59			1.818	1.659	394.7	602.4	428.47	2.3711	7458	245	7941	285	7067	205	7363	7457	245	1.739	7516	206
410	[99]		$C_6H_8N_{10}O_4$	-67.6	49.3	1.68			1.992	1.678	369.0	565.3	450.79	2.2911	7573	266	8057	296	7300	227	7588	7630	263	1.835	7883	230

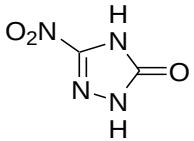
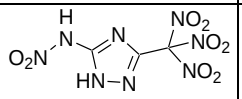
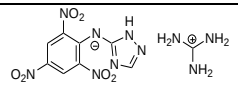
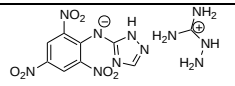
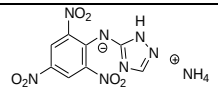
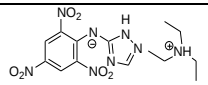
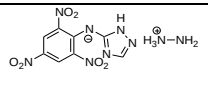
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
411	[99]		$C_6H_6N_{10}O_6$	-45.8	44.6	1.69			1.873	1.735	485.6	594.0	383.66	2.4784	8066	293	8689	355	7814	261	8031	8150	303	1.804	8114	267
412	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.70		1.443	1.938	1.674	784.9	1090.9	714.80	2.4458	8021	293	8660	352	7692	253	8051	8106	299	1.558	8185	261
413	[99]		$C_6H_6N_{14}O_2$	-67.9	64.0	1.63		1.384	2.005	1.608	1057.8	1480.6	1023.36	2.4132	7695	264	8334	322	7286	221	7842	7789	269	1.496	7917	231
414	[99]		$C_6H_5N_{11}O_8$	-29.0	42.9	1.77			1.914	1.788	516.3	585.6	361.43	2.4391	8253	318	9155	398	8337	305	8529	8568	340	1.851	8555	316
415	[99]		$C_6H_7N_{11}O_6$	-46.2	46.8	1.76			2.045	1.731	455.8	556.9	405.98	2.2518	7738	289	8778	363	7990	279	8201	8177	310	1.888	8388	288
416	[99]		$C_6H_6N_{12}O_8$	-29.9	44.9	1.84			1.907	1.791	501.8	579.1	414.90	2.3591	8287	334	9224	405	8534	327	8712	8689	355	1.849	8804	342
417	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.71		1.443	1.938	1.674	727.2	1090.9	714.80	2.4458	8057	297	8660	352	7657	252	8024	8100	300	1.558	8186	263

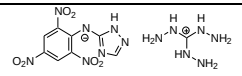
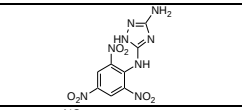
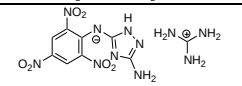
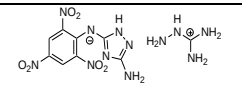
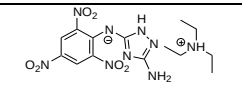
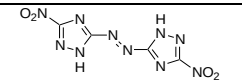
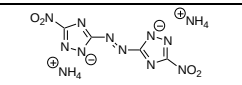
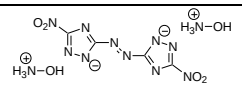
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418	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.81		1.544	1.971	1.453	812.5	1082.5	669.99	2.4065	8309	329	9209	403	8336	309	8634	8622	347	1.498	8748	327
419	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.78		1.544	1.971	1.724	844.4	1082.5	669.99	2.4065	8204	318	9209	403	8270	301	8579	8566	341	1.634	8659	318
420	[99]		$C_2H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	439.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
421	[99]		$C_2H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	468.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345
422	[99]		$C_2H_3N_{11}O_4$	-42.7	54.8	1.81		1.473	2.031	1.741	782.1	965.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
454	[103]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
455	[103]		$C_6H_8N_{16}O_4$	-52.1	60.9	1.69	1.705			1.724	916.8	1181.2		2.9267	9167	350	9072	390	7682	252	8171	8523	331	1.715	8404	262

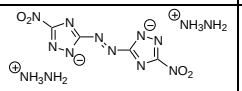
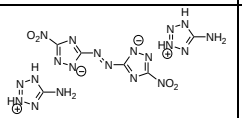
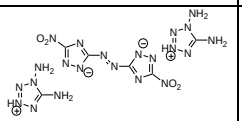
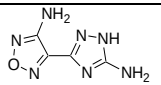
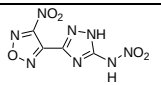
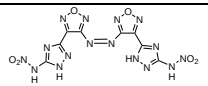
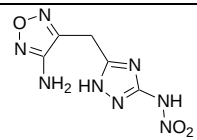
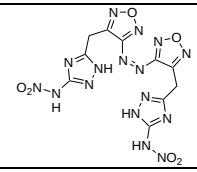
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
456	[103]		$C_6H_8N_{16}O_6$	-40.0	56.0	1.61	1.740			1.760	1062.2	803.5		2.8065	8545	302	9369	418	7853	255	8262	8507	325	1.750	8237	260
457	[103]		$C_6H_{16}N_{18}O_4$*	-63.0	63.9	1.75	1.648			1.720	1223.0	945.3		2.0985	7316	264	8793	364	7746	262	8223	8020	297	1.684	9082	313
458	[103]		$C_6H_{14}N_{22}O_4$*	-63.0	63.9	1.64	1.648			1.720	1143.3	1325.7		2.0985	6981	230	8793	364	7344	226	7893	7753	273	1.684	8396	249
459	[104]		$C_4HN_9O_3$	-39.4	56.5	1.86		1.441	2.206	1.828	744.75	878.6		2.5007	8738	363	9441	425	8378	317	8823	8845	368	1.821	9111	351.4
465	[105]		$C_6H_6N_8O_{10}$	-18.4	32.2	1.82			1.863	1.884	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.873	8674	331
469	[105]		$C_6H_6N_{12}O_4$	-51.9	54.5	1.71		1.443	2.006	1.699	946.3	1056.6	867.77	2.5531	8324	310	8868	371	7816	263	8209	8304	315	1.571	8292	276

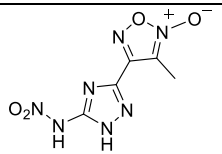
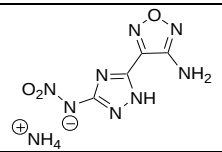
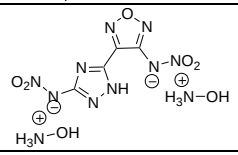
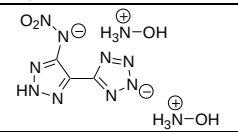
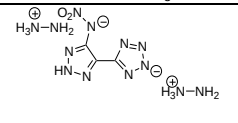
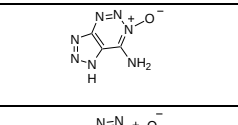
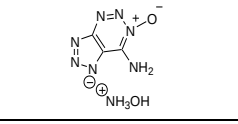
2.1.11 Triazoles

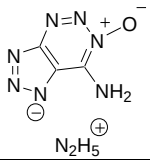
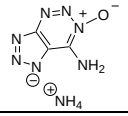
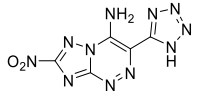
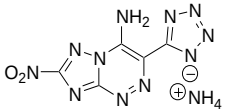
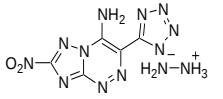
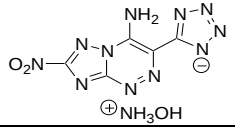
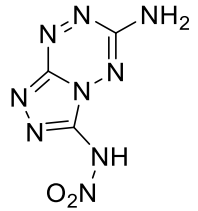
Table 22. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected triazoles at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

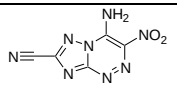
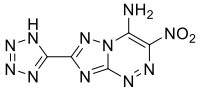
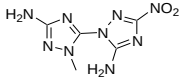
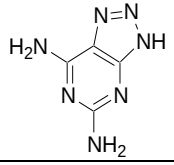
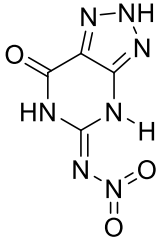
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f°(kJ/mol)	ΔH_f°(kJ/mol) Keshavarz	ΔH_f°(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	$P_{C\text{-}J}$ (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	$P_{C\text{-}J}$ (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	$P_{C\text{-}J}$ (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	$P_{C\text{-}J}$ (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	$P_{C\text{-}J}$ from reference [kbar]
5	[23] [26]		$C_2H_2N_4O_3$	-24.6	43.1	1.916			1.900	1.882	-97	-163.7	48.90	2.2799	8327	351	8753	361	8081	300	8396	8389	337	1.891	8543	305
9	[28]		$C_3H_2N_8O_8$*	5.8	40.3	1.91			2.064	1.957	269	278.6	173.26	2.5007	8920	384	9750	454	9397	406	9580	9409	414	2.010	9250	369
99	[55]		$C_8H_{10}N_{10}O_8$	-76.8	39.5	1.666	1.657			1.652	197.5	311.1		1.9417	6680	218	7482	242	6988	207	7140	7072	222	1.655	7543	211
100	[55]		$C_9H_{11}N_{11}O_6$	-75.8	41.7	1.80	1.648			1.660	303.4	321.5		1.8617	6849	247	7610	254	7499	249	7554	7378	250	1.654	8302	268
101	[55]		$C_8H_8N_9O_6$	-71.8	35.9	1.84	1.682			1.651	245.9	352.3		2.2758	8064	321	7486	242	7729	268	7651	7732	277	1.667	8400	289
102	[55]		$C_{14}H_{20}N_8O_6$*	-129.2	28.3	1.53	1.474			1.384	68.6	204.9		1.6885	5734	154	5337	42	6036	146	6033	5785	114	1.429	6937	158
103	[55]		$C_8H_9N_9O_6$*	-70.9	38.5	1.62	1.672			1.659	386.9	247.5		2.0957	6913	223	7630	256	7233	217	7339	7279	232	1.665	7640	220

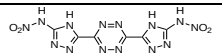
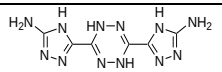
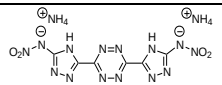
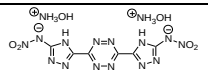
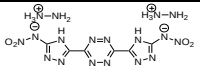
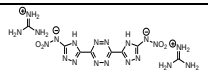
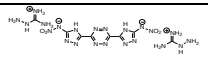
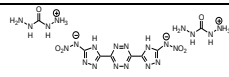
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
104	[55]		$C_8H_{13}N_{13}O_8$	-74.1	45.6	1.59	1.634			1.673	512.4	342.3		1.7017	5911	170	7837	275	7086	206	7316	7038	217	1.653	7597	208
105	[55]		$C_8H_6N_8O_6$	-67.1	36.1	1.85			1.989	1.746	147.4	299.0	325.48	2.0828	7579	296	7635	256	7540	256	7554	7577	269	1.868	8178	278
106	[55]		$C_8H_{11}N_{11}O_8$	-75.8	41.7	1.59	1.648			1.667	154.8	321.5		1.8617	6281	188	7610	254	6734	186	6998	6906	209	1.657	7209	185
107	[55]		$C_8H_{12}N_{12}O_8$*	-74.9	43.7	1.66	1.641			1.674	260.6	319.7		1.7817	6277	197	7728	265	7051	210	7264	7080	224	1.657	7657	214
108	[55]		$C_{14}H_{21}N_9O_8$*	-126.4	30.6	1.50	1.473			1.402	25.9	167.7		1.7086	5704	150	5530	60	5949	140	6030	5803	117	1.438	6802	151
156	[66]		$C_4H_2N_{10}O_4$	-31.5	55.1	1.88			2.062	1.795	571.7	580.1	453.47	2.4607	8702	365	9602	440	8421	323	8845	8892	376	1.928	8952	347
157	[66]		$C_4H_8N_{12}O_4$	-44.4	58.3	1.76	1.693			1.614	426.5	675.8		2.6867	8851	349	9200	402	7984	279	8405	8610	343	1.654	8665	295
158	[66]		$C_4H_{10}N_{12}O_8$	-30.0	52.5	1.82	1.739			1.664	279.5	521.7		2.5665	8767	356	9558	436	8402	315	8715	8860	369	1.702	8857	330

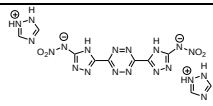
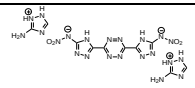
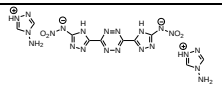
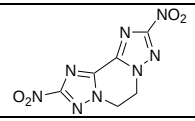
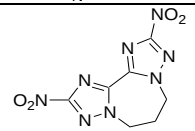
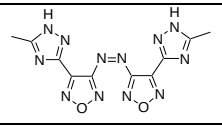
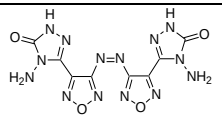
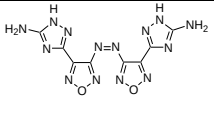
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
159	[66]		$C_4H_{10}N_{14}O_4$*	-45.3	61.6	1.80	1.671			1.634	661.9	601.5		2.3265	8065	314	9287	410	8359	310	8749	8615	345	1.652	9114	329
160	[66]		$C_6H_8N_{20}O_4$	-45.3	66.0	1.71	1.724			1.736	1239.0	1151.1		2.4209	7995	293	9525	433	7862	266	8448	8458	331	1.730	8226	258
161	[66]		$C_6H_{10}N_{22}O_4$*	-45.8	67.8	1.79	1.706			1.744	967.7	1267.0		2.4611	8381	329	9565	436	7826	271	8494	8566	345	1.725	8702	294
194	[71]		$C_4H_5N_7O$*	-91.0	58.7	1.716				1.685	290.8	279.8	325.54	2.1587	7362	261	5873	92	6698	193	7229	6790	182	-	7798	215
197	[73]		$C_4H_3N_9O_5$	-26.4	46.3	1.851			1.996	1.881	524.66	322.8	289.91	2.4533	8578	352	9389	420	8648	337	8902	8879	370	1.938	9025	360
198	[73]		$C_8H_4N_{16}O_6$	-45.7	53.3	1.873			2.033	1.799	1274.4	1121.9	691.89	2.4727	8709	364	9045	388	8392	320	8719	8716	357	1.916	8973	349
199	[73]		$C_2H_6N_8O_3$	-70.8	49.5	1.695			1.832	1.692	449.0	364.6	313.82	2.1848	7361	258	7834	275	7456	238	7699	7588	257	1.762	8079	249
200	[73]		$C_{10}H_8N_{16}O_8$	-64.2	50.0	1.704			1.924	1.692	1206.2	1072.8	650.61	2.3103	7700	277	8314	320	7607	248	7890	7878	282	1.808	8125	260

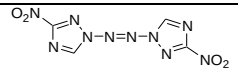
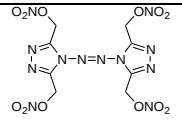
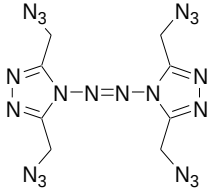
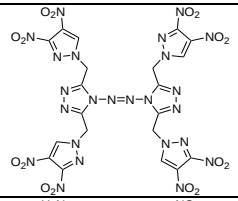
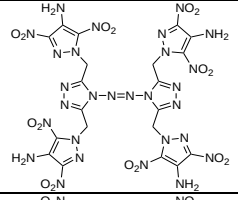
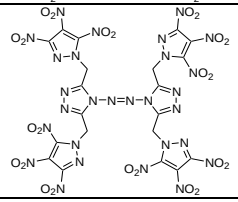
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
201	[73]		$C_5H_5N_7O_4$	-59.9	43.2	1.741			1.932	1.750	443.8	321.3		2.3048	7810	289	8098	300	7873	269	7986	7942	286	1.841	8236	282
202	[73]		$C_5H_9N_9O_3$*	-59.3	55.0	1.680	1.658			1.679	328.2	481.4		2.3790	7787	277	8386	326	7494	239	7872	7885	281	1.668	8130	246
203	[73]		$C_5H_{11}N_{11}O_7$	-27.2	47.7	1.850	1.736			1.723	327.3	190.7		2.4791	8032	290	9478	428	8286	292	8505	8575	337	1.730	9135	366
208	[74]		$C_3H_9N_{11}O_4$*	-39.5	58.5	1.82	1.672			1.644	434.3	532.5		2.4331	8414	337	9342	416	8591	330	8900	8812	361	1.658	9282	348
209	[74]		$C_3H_{11}N_{13}O_2$*	-58.2	69.7	1.71	1.588			1.608	663.4	651.9		2.1931	7429	264	8285	317	8006	276	8524	7986	270	1.598	9022	301
225	[79]		$C_3H_3N_7O$*	-67.9	64.0	1.815				1.789	537.4	535.8		2.3400	8151	321	7641	257	7868	276	8330	7998	285	-	8792	303
228	[79]		$C_4H_8N_8O_2$*	-60.2	60.2	1.772	1.643			1.677	282.7	394.8		2.3929	8141	313	8155	305	7686	260	8136	8030	293	-	8607	280

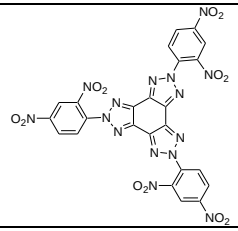
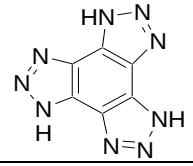
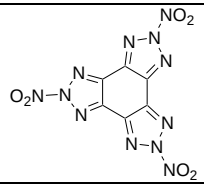
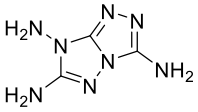
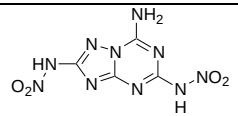
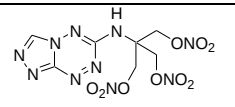
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
229	[79]		$C_3H_7N_9O^*$	-73.5	68.1	1.800	1.584			1.515	625.0	689.2		2.2729	7726	285	6237	126	7594	251	8128	7421	221	1.550	9385	336
230	[79]		$C_3H_7N_9O^*$	-75.2	65.9	1.740	1.595			1.635	474.1	520.3		2.4530	8182	309	6295	131	7622	252	8093	7548	231	1.615	8744	282
231	[80]		$C_5H_3N_{11}O_2$	-61.0	61.8	1.873			2.067	1.776	721.6	887.2	728.72	2.4734	8711	364	8709	357	7792	276	8300	8378	332	1.921	9010	328
233	[80]		$C_5H_6N_{12}O_2^*$	-66.1	63.1	1.811	1.674			1.676	625.3	982.6		2.5864	8786	356	8292	318	7565	255	8091	8184	310	1.675	8793	286
234	[80]		$C_5H_7N_{13}O_2^*$	-65.4	64.8	1.855	1.662			1.685	781.2	897.9		2.4063	8466	347	8309	319	7932	284	8403	8278	317	1.673	8950	329
235	[80]		$C_5H_6N_{12}O_3$	-56.7	59.6	1.859	1.701			1.678	677.4	746.2		2.5263	8804	367	8761	361	8064	294	8457	8522	341	1.690	9220	331
239	[81]		$C_3H_3N_9O_2$	-44.6	64.0	1.79			2.050	1.804	634.3	625.7	546.64	2.4274	8293	324	9288	411	8175	295	8694	8612	343	1.927	8763	313

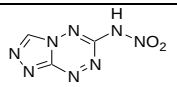
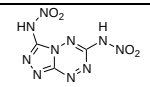
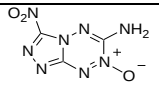
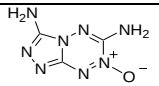
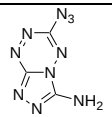
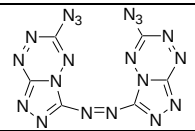
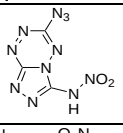
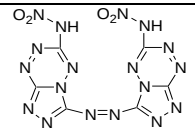
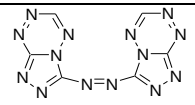
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
240	[81]		$C_3H_2N_8O_2$	-43.9	61.5	1.83			1.769	1.800	656.8	592.6	493.17	2.5074	8647	352	9344	416	8374	314	8846	8803	361	1.784	8953	339
267	[88]		$C_5H_3N_9O_2$	-69.9	54.4	1.753			2.056	1.729	533.3	532.2	688.02	2.3594	7990	301	8200	309	7186	225	7644	7607	263	1.893	7763	230.5
268	[88]		$C_5H_3N_{11}O_2$	-61.0	61.8	1.819			2.067	1.776	723.4	926.9	728.72	2.4734	8517	342	8709	357	7635	260	8169	8258	320	1.921	8312	270.4
269	[89]		$C_5H_7N_9O_2$*	-81.7	56.0	1.83			1.831	1.657	369	530.6	482.19	2.2650	8003	316	7265	222	7374	244	7715	7589	261	1.744	7520	254
270	[90]		$C_4H_5N_7$*	-111.2	64.9	1.67			1.873	1.638	361	433.8	463.70	2.1187	7121	241	-	-	6163	161	6875	6720	201	1.756	7426	181.6
271	[90]		$C_4H_5N_7O_3$	-52.8	49.7	1.94			1.949	1.856	223	194.9	252.54	2.2459	8311	354	8228	312	7952	293	8235	8182	320	1.903	8845	325.4

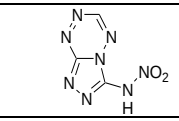
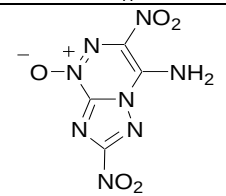
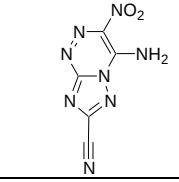
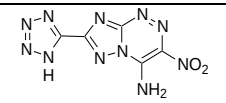
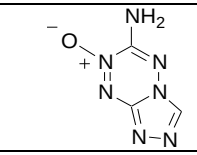
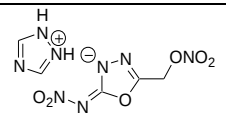
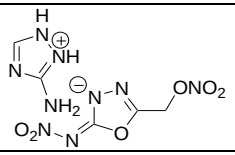
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
272	[91]		$C_6H_4N_{14}O_4$	-47.6	58.3	1.88			2.044	1.781	1336.0	1220.8	828.13	2.3467	8390	347	9171	400	8660	341	9027	8812	363	1.913	9100	317
273	[91]		$C_6H_8N_{12}$	-103.1	67.7	1.84				1.659	1124.3	842.7	873.59	1.7781	6734	246	-	-	7645	263	8043	7474	254	-	8943	364
274	[91]		$C_6H_{18}N_{16}O_4$	1.657	60.5	1.79	1.674			1.640	996.0	1190.7		2.5727	8671	345	8897	374	8145	293	8512	8556	337	1.657	8898	311
275	[91]		$C_6H_{18}N_{16}O_6$	-43.8	55.7	1.81	1.711			1.645	1468.2	816.1		2.4525	8430	336	9244	406	8908	353	9142	8931	365	1.678	9267	378
276	[91]		$C_6H_{12}N_{18}O_4$	-56.0	63.0	1.78	1.657			1.654	1361.5	1214.6		2.2125	7702	290	8989	383	8412	312	8765	8467	328	1.655	9214	337
277	[91]		$C_6H_{14}N_{20}O_4$	-66.9	61.7	1.84	1.636			1.644	947.3	1127.3		1.9045	7072	265	8564	343	7848	277	8260	7936	295	1.640	8978	309
278	[91]		$C_6H_{16}N_{22}O_4$	-66.1	63.6	1.79	1.624			1.656	1360	1243.2		1.7445	6517	227	8660	352	8032	285	8420	7907	288	1.640	8963	318
279	[91]		$C_6H_{18}N_{22}O_6$	-55.8	59.7	1.82	1.657			1.678	1312.9	1198.4		1.8245	6805	247	9033	387	8350	311	8654	8210	315	1.667	8978	334

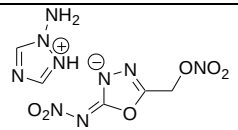
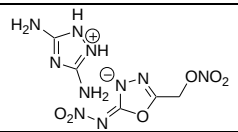
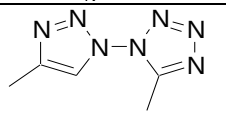
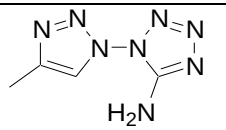
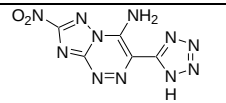
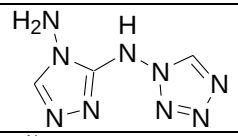
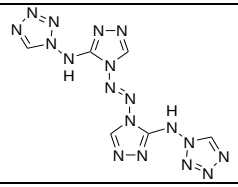
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
280	[91]		$C_{10}H_{10}N_{20}O_4$	-70.8	59.1	1.85	1.677			1.676	1581.4	1578.3		2.2643	8067	323	8375	325	8002	289	8330	8194	312	1.676	8925	318
281	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.84	1.664			1.697	1791.1	1694.2		2.1043	7606	295	8479	335	8122	296	8461	8167	309	1.680	8976	336
282	[91]		$C_{10}H_{12}N_{22}O_4$*	-69.8	61.1	1.85	1.664			1.686	1497.5	1694.2		2.3045	8175	329	8479	335	7934	284	8309	8224	316	1.675	8966	323
303	[94]		$C_8H_6N_8O_4$	-63.5	44.4	1.733			1.905	1.763	345.3	454.7	489.34	2.4583	8170	307	8059	296	7309	232	7567	7776	278	1.834	7838	241
304	[94]		$C_7H_6N_8O_4$	-78.1	42.1	1.634			1.820	1.677	307.2	430.1	462.54	2.3771	7624	261	7439	238	6832	195	7078	7243	231	1.748	7336	197
308	[95]		$C_{10}H_8N_{12}O_2$	-107.2	51.2	1.81				1.540	864.3	1019.7	565.19	2.2557	7912	307	6358	137	6891	211	7137	7074	218	-	8482	264
312	[95]		$C_8H_6N_{14}O_4$	-66.3	54.1	1.68				1.790	769.9	793.8	427.17	2.3381	7687	272	7951	286	7140	217	7590	7592	258	-	7774	224
313	[95]		$C_8H_6N_{14}O_2$*	-82.4	59.4	1.79				1.685	920.8	262	674.05	2.2581	7853	300	7693	262	7180	228	7645	7593	263	-	8458	262

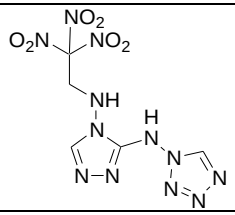
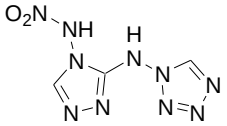
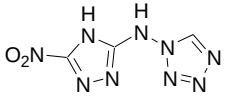
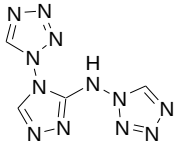
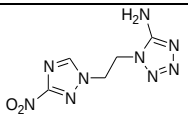
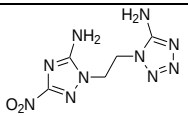
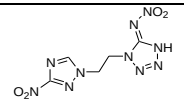
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
315	[95]		$C_4H_8N_{10}O_4$	-31.5	55.1	1.80			2.062	1.770	718	803.7	494.65	2.6609	8939	362	9602	440	8371	311	8797	8927	371	1.916	8830	335
316	[95]		$C_8H_8N_{12}O_{12}$	-27.6	36.2	1.70			1.833	1.687	246	271.8	-161.25	2.7107	8676	327	9005	384	8091	280	8200	8493	330	1.760	8190	285
317	[95]		$C_8H_8N_{26}$*	-83.3	72.9	1.53		1.360		1.462	1940	2170.5	1601.87	2.4203	7361	231	-	-	6962	194	7657	7327	212	1.411	7690	209
318	[95]		$C_{20}H_{12}N_{24}O_{16}$	-56.8	39.8	1.74			1.889	1.742	1382	1331.9	1089.55	2.8391	9158	361	8130	303	7652	254	7799	8185	306	1.816	8070	269
319	[95]		$C_{20}H_{16}N_{28}O_{26}$	-56.6	43.4	1.75			1.879	1.763	1483	1563.8	1178.83	2.5191	8385	322	8337	322	7731	261	7904	8089	302	1.821	8190	273
320	[95]		$C_{20}H_8N_{28}O_{24}$	-31.2	38.3	1.82			1.944	1.843	1359	1298.3	1000.63	3.2683	10623	460	8785	364	8283	306	8435	9032	377	1.893	8640	323

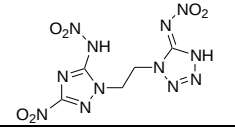
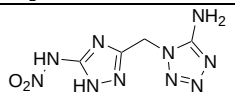
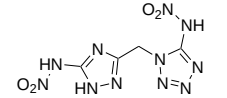
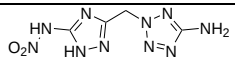
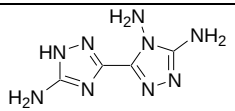
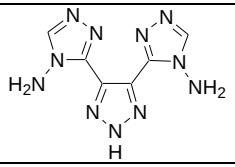
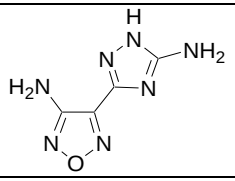
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
336	[96]		$C_{24}H_9N_{15}O_{12}$	-92.6	30.0	1.69			1.834	1.719	695.0	1257.3	1006.99	2.3272	7695	274	6535	154	6493	180	6593	6829	203	1.776	7032	199
337	[96]		$C_6H_3N_9$	-107.4	62.7	1.77				1.811	463.0	915.2	774.94	2.3185	7943	302	-	-	5902	153	6725	6857	228	-	7160	194
338	[96]		$C_6N_{12}O_6$	-28.6	50.0	1.82				2.033	710.0	1109.3	814.41	2.9407	9757	411	9443	425	8093	292	8540	8958	376	2.119	8376	312
339	[96]		$C_3H_6N_8$	-93.4	72.7	1.73				1.774	470.5	453.8	501.24	2.2128	7542	273	-	-	7087	217	7751	7460	245	-	8580	259
346	[96]		$C_4H_4N_{10}O_4$	-37.5	54.7	1.84			1.980	1.856	544.9	500.7	524.45	2.3534	8272	333	9345	416	8368	315	8721	8676	355	1.918	8787	342
350	[96]		$C_7H_8N_{10}O_9$	-38.3	37.2	1.79			1.799	1.700	246.0	251.2	14.83	2.5172	8527	337	8366	325	8261	302	8285	8360	321	1.749	9290	294

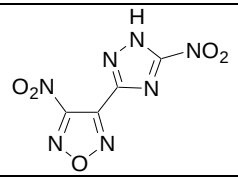
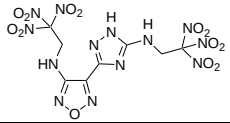
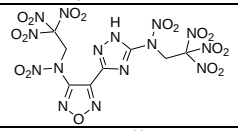
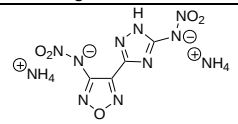
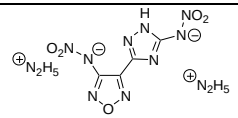
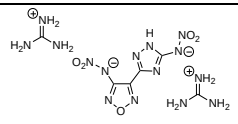
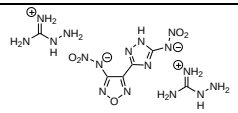
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
351	[96]		$C_3H_2N_8O_2$	-43.9	61.5	1.76			2.076	1.782	675.1	567.8	524.32	2.5074	8392	324	9344	416	8182	293	8678	8649	344	1.929	8621	304
352	[96]		$C_2H_4N_{10}O_4$	-19.8	57.9	1.91			2.078	1.890	740.9	709.3	555.56	2.5347	9014	390	10102	487	9086	379	9517	9430	419	1.984	9301	383
353	[96]		$C_2H_2N_8O_3$	-32.3	56.6	1.86			2.327	1.898	744.0	475.1		2.5474	8865	370	9622	442	8905	359	9282	9168	390	2.112	9384	391
354	[96]		$C_2H_4N_8O$	-66.6	66.7	1.82				1.794	492.0	541.4		2.3601	8221	326	7457	240	7761	269	8298	7934	278	1.937	9008	347
355	[96]		$C_2H_2N_{10}$	-62.9	78.6	1.74		1.270		1.674	913.6	1034.0	801.73	2.4748	8237	312	-	-	7732	260	8524	8164	286	1.472	8581	285
356	[96]		C_6N_{20}	-54.5	79.5	1.77		1.370		1.674	2194.6	2335.0	1626.43	2.8903	9413	381	-	-	8028	283	8889	8777	332	1.522	8690	302
357	[96]		$C_3HN_{11}O_2$	-32.3	69.1	1.85		1.456	2.196	1.782	951.8	1056.3	810.65	2.5821	8921	371	10187	494	8591	333	9255	9238	399	1.619	9236	363
358	[96]		$C_6H_2N_{18}O_4$	-36.9	64.6	1.85			2.158	1.805	2037.8	1595.0	1116.25	2.7955	9494	404	9816	460	6522	192	7846	8420	352	1.982	9500	398
359	[96]		$C_6H_2N_{14}$	-77.0	72.6	1.91				1.644	1525.2	1465.2	1053.77	2.7409	9587	423	-	-	8049	298	8676	8771	360	-	9200	348

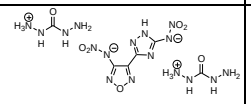
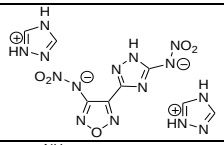
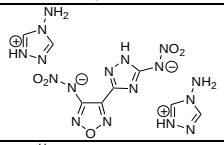
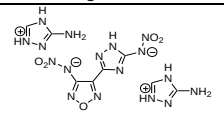
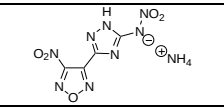
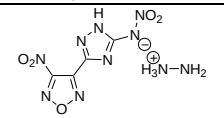
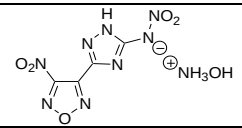
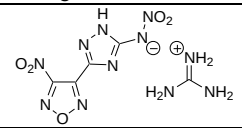
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
360	[96]		$C_3H_3N_9O_2$	-43.9	61.5	1.81			2.076	1.782	647.8	659.7	524.32	2.5074	8574	344	9344	416	8292	306	8775	8746	355	1.929	8800	332
362	[96]		$C_4H_3N_9O_4$	-26.4	46.3	1.90 (predicted)			1.937	2.095	378.0	384.1		2.5534	9029	388	9389	420	8594	338	8850	8966	382	2.016	8970	354
363	[96]		$C_5H_5N_9O_2$	-69.9	54.4	1.81			2.056	1.729	533.5	664.6	688.02	2.3594	8185	322	8200	309	7349	240	7773	7877	290	1.893	7763	231
364	[96]		$C_5H_3N_{11}O_2$	-61.0	61.8	1.82			2.067	1.776	752.7	926.9	728.72	2.4734	8521	343	8709	357	7685	264	8207	8280	321	1.921	8312	270
369	[97]		$C_2H_3N_7O$	-67.9	64.0	1.70				1.768	524.3	483.5		2.4401	8007	292	7641	257	7487	240	8012	7787	263	1.937	8215	255
371	[98]		$C_5H_6N_8O_6$	-40.9	40.9	1.772	1.748			1.721	569.08	163.2		2.4049	8172	314	8237	312	7815	268	7988	8053	298	1.735	8630	319.8
372	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.780	1.733			1.717	600.04	221.1		2.1783	7614	285	8361	324	8584	325	8651	8302	311	1.725	8725	321.2

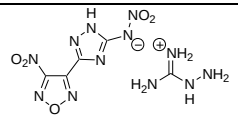
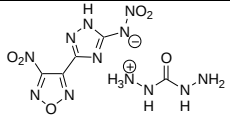
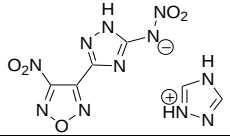
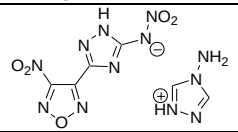
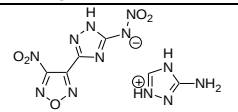
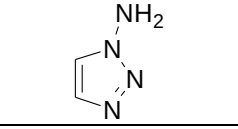
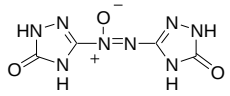
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
373	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.802	1.733			1.707	667.09	221.1		2.2784	7946	307	8518	339	8732	338	8781	8494	328	1.720	8877	337.1
374	[98]		$C_5H_8N_{10}O_6$	-42.1	46.0	1.814	1.719			1.733	508.38	279.1		2.0983	7511	286	8622	348	7910	279	8153	8049	304	1.726	8821	321.2
377	[99]		$C_2H_7N_7$*	-130.8	59.4	1.47				1.414	699.62	812.5	481.10	2.3378	6973	203	-	-	6223	151	6701	6632	177	-	7725	245
378	[99]		$C_4H_6N_8$*	-105.9	67.4	1.52				1.536	747.17	895.0	535.53	2.3390	7146	219			6741	181	7292	7060	200	-	7724	203
391	[99]		$C_2H_3N_{11}O_2$	-61.0	61.8	1.87			2.067	1.776	721.6	926.9	728.72	2.4734	8700	363	8709	357	7783	275	8293	8371	332	1.921	9010	328
396	[99]		$C_3H_5N_9$	-81.4	75.4	1.65				1.662	862.9	550.5	621.11	2.3402	7591	262	-	-	7632	245	8236	7820	254	-	8789	277
397	[99]		$C_6H_6N_{18}$	-72.7	76.3	1.68				1.661	1799.4	1586.1	1265.19	2.6211	8378	307	-	-	7669	250	8357	8135	278	-	8599	276

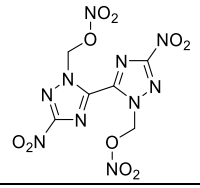
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
398	[99]		$C_6H_6N_{15}O_6$	-33.9	50.9	1.77			1.927	1.772	1091.8	690.7	558.48	2.4997	8409	327	9346	416	8791	339	9032	8894	361	1.849	9004	349
399	[99]		$C_3H_4N_{10}O_2$	-45.3	66.0	1.78			2.027	1.777	923.3	787.3	630.03	2.4475	8310	323	9240	406	8591	325	9065	8802	351	1.902	9141	336
400	[99]		$C_2H_3N_9O_2$	-44.6	64.0	1.74			2.050	1.787	950.6	484.1	555.97	2.4274	8117	305	9288	411	8541	317	9016	8740	344	1.918	8885	321
401	[99]		$C_4H_4N_{12}$	-72.7	76.3	1.71				1.683	1256.5	964.8	908.36	2.5876	8409	315	-	-	7848	265	8514	8257	290	-	9695	284
423	[99]		$C_5H_7N_9O_2$	-81.7	56.0	1.58			2.009	1.589	382.8	637.9	504.13	2.3651	7410	241	7265	222	6690	183	7181	7136	215	1.799	7395	188
424	[99]		$C_5H_8N_{10}O_2$	-79.9	58.3	1.66			1.825	1.614	359.4	695.9	526.45	2.2851	7492	259	7349	230	6879	200	7390	7278	230	1.720	7807	216
425	[99]		$C_5H_6N_{10}O_4$	-53.3	51.8	1.66			1.892	1.663	476.8	629.5	459.32	2.3258	7590	264	8668	353	7534	240	7887	7920	286	1.777	8113	256

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
426	[99]		$C_5H_6N_{12}O_6$	-33.9	50.9	1.69			1.927	1.753	511.5	709.7	490.56	2.3531	7758	277	9346	416	7947	270	8299	8338	321	1.840	8690	322
427	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.71			1.919	1.699	476.2	659.1	557.65	2.2662	7611	273	8236	312	7406	236	7929	7796	274	1.809	8187	249
428	[99]		$C_4H_5N_{11}O_4$	-38.4	56.8	1.81			1.966	1.785	285.0	742.7	566.57	2.3735	8222	324	9388	420	7847	274	8356	8453	339	1.875	8750	318
429	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.72			1.919	1.699	462.8	659.1	557.65	2.2662	7644	277	8236	312	7411	237	7937	7807	275	1.809	8213	252
430	[100]		$C_4H_7N_9^+$	-101.6	69.6	1.68				1.670	396.8	544.9	538.26	2.0588	7006	237	-	-	6392	174	7191	6863	206	-	7818	204
431	[100]		$C_6H_7N_{11}^+$	-106.4	66.1	1.65				1.648	763.0	784.7	772.08	2.2049	7266	246	-	-	6508	178	7128	6967	212	-	7806	207
432	[101]		$C_4H_5N_7O$	-91.0	58.7	1.596				1.685	404.03	366.9	325.54	2.1587	6986	223	5873	92	6656	182	7161	6669	166	-	6846	193

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
433	[101]		$C_4HN_7O_5$	-24.7	43.2	1.863			2.013	1.883	499.91	234.2	236.44	2.5333	8837	369	9321	414	8668	340	8907	8933	374	1.948	9152	371
434	[101]		$C_6H_7N_{13}O_{13}$	-21.1	36.9	1.908			1.869	1.822	451.38	340.8	200.28	2.4777	8849	379	9135	396	8962	369	8980	8982	381	1.845	9087	381
435	[101]		$C_6H_5N_{15}O_{17}$	-4.1	36.0	1.932			1.920	1.891	648.95	446.6	206.88	2.8925	10100	458	9560	436	9383	407	9455	9624	434	1.905	9355	401
436	[101]		$C_4H_9N_{11}O_5$	-41.2	52.9	1.822	1.691			1.676	246.19	473.3		2.5993	8861	362	9163	399	8274	306	8549	8712	356	1.683	8897	319
437	[101]		$C_4H_{11}N_{13}O_5$	-42.3	56.7	1.834	1.669			1.691	616.05	589.2		2.2391	7947	313	9281	410	8716	341	8949	8723	355	1.680	9045	349
438	[101]		$C_6H_{13}N_{15}O_5$	-57.6	56.0	1.659	1.641			1.673	249.08	501.9		1.9311	6635	215	8748	360	7260	222	7740	7596	266	1.657	7942	229
439			$C_6H_{15}N_{17}O_5$	-57.2	58.8	1.679	1.627			1.685	656.43	571.8		1.7711	6301	201	8872	372	7723	254	8109	7751	276	1.656	8455	265

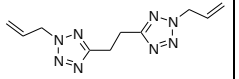
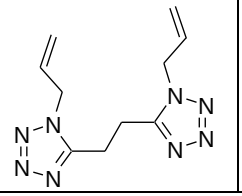
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
440	[101]		$C_6H_{15}N_{17}O_7$	-45.7	54.5	1.687	1.665			1.710	607.27	527.0		1.8511	6517	213	9198	402	8000	273	8300	8004	296	1.688	8159	277
441			$C_8H_9N_{15}O_5$	-62.7	53.2	1.780	1.691			1.711	833.73	906.9		2.2909	7905	301	8466	334	7763	266	8055	8047	300	1.701	8341	264
442	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.761	1.674			1.721	1103.75	1068.9		2.3311	7945	300	8604	347	7934	276	8233	8179	308	1.698	8642	291
443	[101]		$C_8H_{11}N_{17}O_5$	-62.1	56.0	1.752	1.674			1.735	804.55	1068.9		2.1309	7405	269	8604	347	7640	255	8006	7914	290	1.704	8373	268
444	[101]		$C_4H_5N_9O_5$	-34.0	48.6	1.815	1.763			1.761	349.86	415.1		2.5663	8748	354	8998	384	8371	312	8610	8682	350	1.762	8716	326
445	[101]		$C_4H_6N_{10}O_5$	-35.0	51.1	1.847	1.746			1.766	519.39	473.0		2.3862	8384	340	9297	411	8677	339	8892	8812	363	1.756	9060	358
446	[101]		$C_4H_5N_9O_6$	-26.2	45.8	1.844	1.785			1.757	402.73	273.8		2.5062	8695	357	9383	419	8747	344	8913	8934	373	1.771	8954	357
447	[101]		$C_5H_7N_{11}O_5$	-45.2	51.2	1.677	1.722			1.746	309.89	429.4		2.2322	7419	258	8964	380	7576	244	7951	7978	294	1.734	7990	247

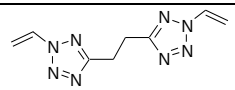
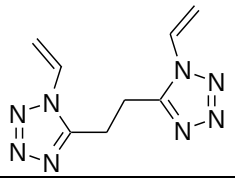
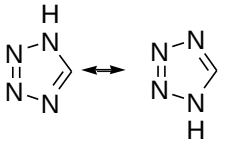
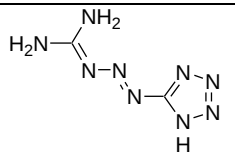
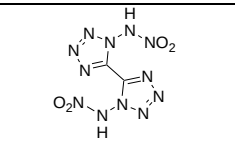
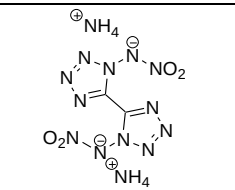
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
448	[101]		$C_5H_8N_{12}O_5$	-45.5	53.2	1.670	1.709			1.751	502.18	441.3		2.1522	7202	246	9033	387	7771	256	8120	8032	296	1.730	8187	258
449	[101]		$C_5H_8N_{12}O_6$	-38.5	50.6	1.676	1.730			1.765	468.58	464.9		2.1922	7319	252	9196	402	7932	267	8238	8171	307	1.748	8256	270
450	[101]		$C_5H_5N_{11}O_5$	-48.8	49.5	1.720	1.751			1.770	620.12	654.9		2.4121	8008	296	8778	363	7773	261	8084	8161	307	1.760	8197	271
451	[101]		$C_5H_6N_{12}O_5$	-49.1	51.5	1.748	1.737			1.774	719.34	712.8		2.4322	8157	309	8853	370	7962	276	8261	8308	318	1.756	8424	288
452	[101]		$C_5H_6N_{12}O_5$	-49.1	51.5	1.716	1.737			1.784	570.70	712.8		2.3321	7795	284	8853	370	7697	255	8048	8098	303	1.760	8151	263
463	[24]		$C_2H_4N_4^+$	-114.2	66.6	1.441				1.523	285.6	278.6	258.07	2.2528	6697	187	-	-	6268	151	6882	6616	169	-	7767	19.5
464	[24]		$C_4H_4N_8O_3$	-52.8	52.8	1.91				1.868	11	260.3		2.1659	7991	330	7983	289	7357	249	7908	7810	289	1.901	8204	243.9

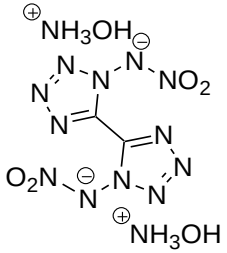
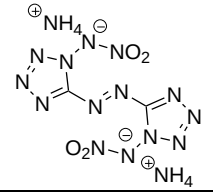
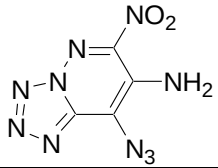
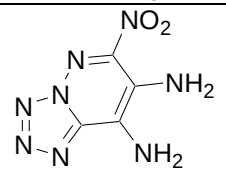
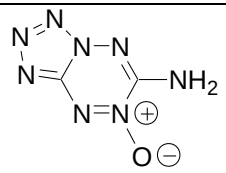
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
468	[105]		$C_6H_4N_{10}O_{10}$	-17.0	37.2	1.83			1.908	1.839	113.6	179.5	97.25	2.7457	9281	387	9065	390	8460	321	8604	8852	366	1.873	8639	327

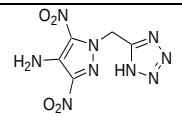
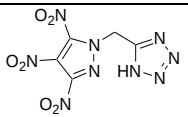
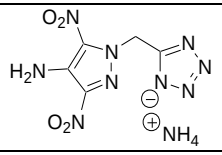
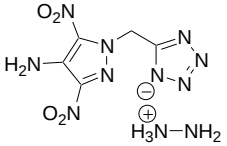
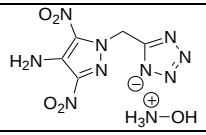
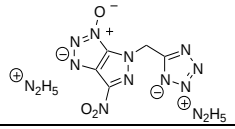
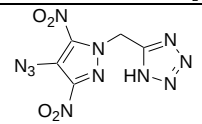
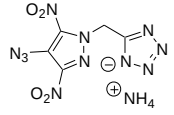
2.1.12 Tetrazoles

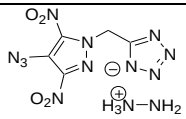
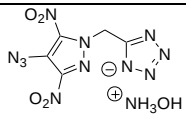
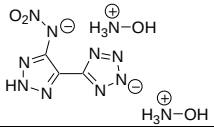
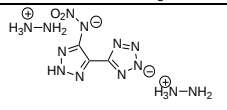
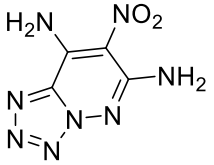
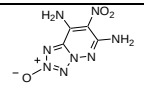
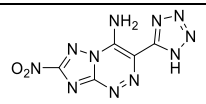
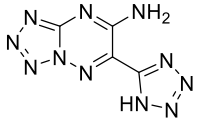
Table 23. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure (P_{C-J}), heat of formation and density for the selected tetrazoles at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

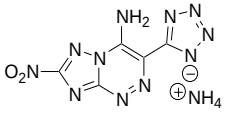
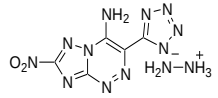
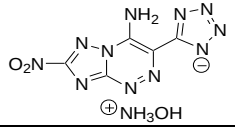
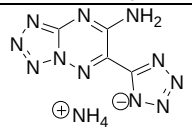
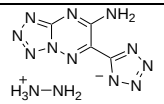
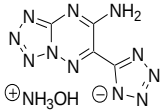
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
12	[30]		$C_{10}H_{14}N_8^*$	-175,4	45.5	1.2				1.255	605	602.3	661.55	1.9663	5408	105	-	-	4514	68	5243	5055	86	-	6148	99
13	[30]		$C_{10}H_{14}N_8^*$	-175.4	45.5	1.2				1.255	622	602.3	661.55	1.9663	5408	105	-	-	4535	69	5257	5067	87	-	6167	99

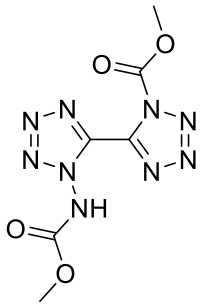
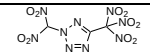
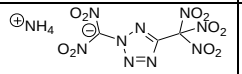
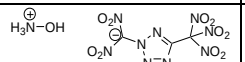
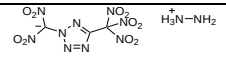
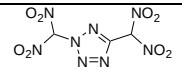
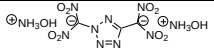
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
14	[30]		$C_8H_{10}N_8^*$	-154.0	51.4	1.4				1.324	635	651.5	702.83	2.1287	6310	164	-	-	5284	105	5843	5812	134	-	7109	148
15	[30]		$C_8H_{10}N_8^*$	-154.0	51.4	1.4				1.324	643	651.5	702.83	2.1287	6310	164	-	-	5296	106	5852	5819	135	-	7132	149
58	[38]		$CH_2N_4^*$	-68.5	80.0	1.529				1.582	237.07	303.2	268.59	2.3340	7165	221	-	-	6781	184	7710	7219	202	-	7831	210
63	[38]		$C_2H_5N_9^*$	-67.0	81.3	1.64				1.538	382	633.1	423.71	2.1675	7964	326	-	-	7514	259	8526	8001	292	1.768	9729	338
109	[56]		$C_2H_2N_{12}O_4$	-6.2	65.1	1.930			2.134	1.921	932.1	810.1	661.23	2.6561	9428	418	10855	557	9715	436	10282	10070	470	2.027	10142	456
110	[56]		$C_2H_8N_{14}O_4$	-21.9	67.1	1.795	1.724			1.705	647.7	997.8		2.8821	9497	391	10312	506	8173	296	8900	9220	398	1.715	9519	361

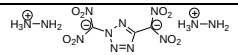
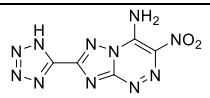
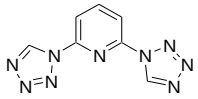
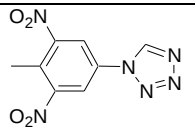
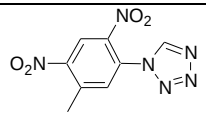
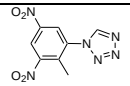
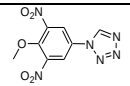
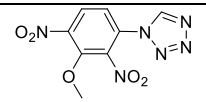
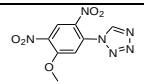
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111	[56]		$C_2H_8N_4O_6$	-9.9	60.5	1.842	1.766			1.751	789.8	620.1		2.7619	9372	395	10556	529	9399	397	9778	9776	440	1.758	9885	418
112	[56]		$C_2H_8N_6O_4$	-20.0	70.0	1.753	1.736			1.675	941.9	1263.4		2.9295	9442	379	10504	524	8778	336	9361	9521	413	1.706	9472	358
131	[61]		$C_4H_2N_{10}O_2$	-50.4	63.1	1.82		1.390	2.107	1.749	811.2	998.6	726.07	2.4808	8540	344	9212	403	8079	291	8608	8610	346	1.570	8746	315
132	[61]		$C_4H_4N_8O_2$	-65.3	57.1	1.80			1.948	1.766	446.5	472.9	462.06	2.3261	8064	314	8179	307	7630	258	8025	7974	293	1.857	8434	277
149	[40]		$C_2H_2N_6O$	-41.5	72.7	1.874				1.839	631.4	713.5		2.5414	8885	374	9359	417	8550	332	9206	9000	374	-	9326	364

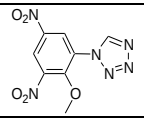
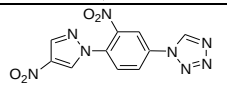
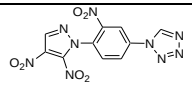
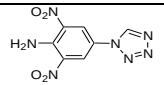
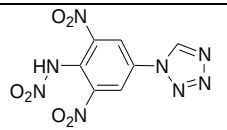
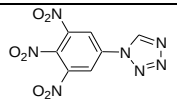
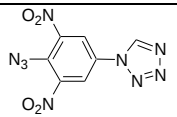
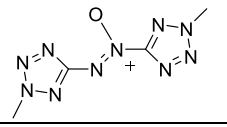
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173	[69]		$C_5H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	347.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
174	[69]		$C_5H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	376.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345
175	[69]		$C_5H_6N_{10}O_6$	-58.8	51.5	1.68	1.669			1.659	422.3	535.3		2.4652	7998	288	8433	331	7614	247	7900	7986	289	1.664	8153	251
176	[69]		$C_5H_7N_{11}O_6$*	-58.5	53.6	1.65	1.812			1.668	573.8	450.6		2.2851	7458	255	8521	339	7696	249	7992	7917	281	1.740	8264	256
177	[69]		$C_5H_5N_{10}O_7$	-50.0	48.6	1.75	1.695			1.685	470.2	298.9		2.4051	8096	306	8696	355	8118	287	8293	8301	316	1.690	8592	298
178	[69]		$C_6H_{14}N_{14}O_5$*	-77.5	59.4	1.69	1.604			1.658	883.2	642.1		2.3519	7755	277	8342	322	7914	267	8269	8070	289	1.631	8778	289
179	[69]		$C_5H_3N_{11}O_4$	-42.7	54.8	1.812		1.473	2.031	1.741	782.1	873.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
180	[69]		$C_5H_6N_{12}O_4$	-48.3	56.4	1.64	1.725			1.657	793.0	965.9		2.6199	8223	292	9028	386	7740	251	8150	8285	310	1.691	8167	258

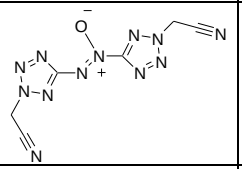
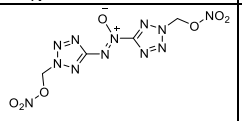
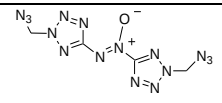
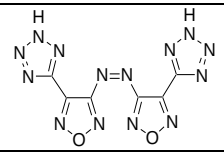
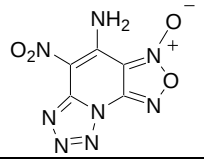
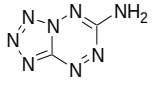
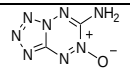
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
181	[69]		$C_5H_7N_{13}O_4$	-48.5	58.1	1.72	1.712			1.665	937.1	928.7		2.4398	8077	299	9081	391	8137	286	8503	8450	325	1.688	8640	297
182	[69]		$C_5H_6N_{12}O_5$	-40.7	53.5	1.76	1.746			1.659	834.3	824.6		2.5598	8526	331	9210	403	8354	305	8652	8686	346	1.703	8747	322
208	[74]		$C_2H_9N_{11}O_4$*	-39.5	58.5	1.82	1.672			1.644	434.3	532.5		2.4331	8414	337	9342	416	8591	330	8900	8812	361	1.658	9282	348
209	[74]		$C_2H_{11}N_{13}O_2$*	-58.2	69.7	1.71	1.588			1.608	663.4	651.9		2.1931	7429	264	8285	317	8006	276	8524	7986	270	1.598	9022	301
223	[78]		$C_4H_4N_8O_2$	-65.3	57.1	1.869			1.948	1.766	398	564.9	462.06	2.3261	8297	340	8179	307	7731	271	8115	8080	306	1.857	8899	303
224	[78]		$C_4H_4N_8O_3$	-52.8	52.8	1.886			2.033	1.856	470	502.8		2.3661	8464	353	8669	353	8281	313	8530	8486	340	1.945	9021	348
231	[80]		$C_5H_5N_{11}O_2$	-61.0	61.8	1.873			2.067	1.776	721.6	887.2	728.72	2.4734	8711	364	8709	357	7792	276	8300	8378	332	1.921	9010	328
232	[80]		$C_4H_5N_{11}$*	-74.1	75.1	1.795				1.714	866.5	1070.2	804.38	2.4674	8415	332	-	-	7446	246	8195	8019	289	-	8367	256

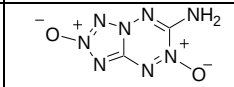
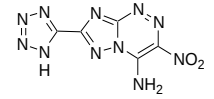
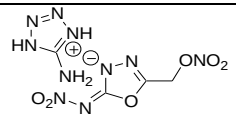
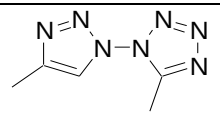
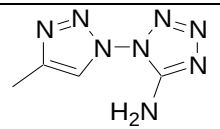
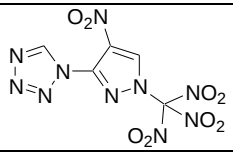
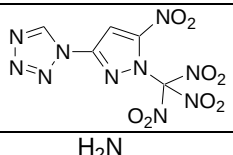
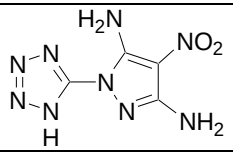
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
233	[80]		$C_5H_6N_{12}O_2$*	-66.1	63.1	1.811	1.674			1.676	625.3	982.6		2.5864	8786	356	8292	318	7565	255	8091	8184	310	1.675	8793	286
234	[80]		$C_5H_7N_{13}O_2$*	-65.4	64.8	1.855	1.662			1.685	781.2	897.9		2.4063	8466	347	8309	319	7932	284	8403	8278	317	1.673	8950	329
235	[80]		$C_5H_6N_{12}O_3$	-56.7	59.6	1.859	1.701			1.678	677.4	746.2		2.5263	8804	367	8761	361	8064	294	8457	8522	341	1.690	9220	331
236	[80]		$C_4H_6N_{12}$	-79.2	75.7	1.725	1.615			1.608	739.5	1073.6		2.5804	8448	320	-	-	7117	219	7909	7825	270	1.611	8313	249
237	[80]		$C_4H_7N_{13}$*	-77.6	76.8	1.742	1.605			1.622	882.1	988.9		2.4003	8055	302	-	-	7432	240	8161	7883	271	1.614	8679	276
238	[80]		$C_4H_6N_{12}O$	-67.2	70.6	1.751	1.651			1.614	785.7	7576		2.5203	8392	322	7414	236	7576	253	8242	6221	270	1.633	8618	280

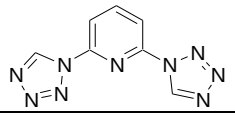
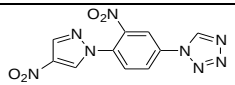
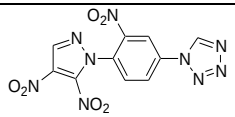
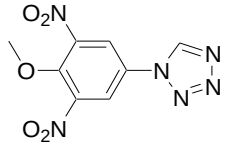
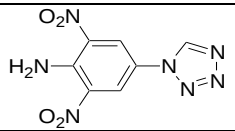
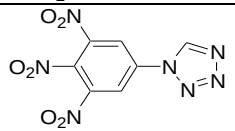
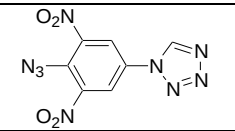
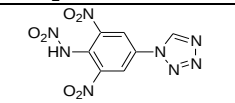
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
241	[82]		$C_3H_7N_9O_4$	-68.4	46.8	1.64				1.590	325.5	301.3	80.14	2.3711	7630	262	7063	203	7122	212	7409	7306	226	-	7403	201
254	[85]		$C_3HN_9O_{10}$*	17.3	39.0	1.88			1.997	1.950	284.3	334.6	157.13	2.8082	9651	420	9252	407	9432	405	9684	9505	411	1.974	8511	312
255	[85]		$C_3H_4N_{10}O_{10}$*	9.4	41.2	1.79	1.884			1.896	238.1	334.9		2.8211	9317	380	9678	447	9109	367	9332	9359	398	1.890	8617	316
256	[85]		$C_3H_4N_{10}O_{11}$	13.5	39.3	1.92	1.896			1.912	277.8	193.6		2.7610	9683	431	9450	426	9729	436	9873	9762	434	1.896	9054	363
257	[85]		$C_3H_5N_{11}O_{10}$	6.8	43.4	1.81	1.866			1.904	383.5	297.8		2.6410	8926	363	9881	466	8889	352	9166	9216	394	1.895	8920	346
258	[85]		$C_3H_2N_8O_8$	5.8	40.3	1.92	1.964			1.881	247.5	312.4	171.36	2.7009	9515	421	9750	454	9393	406	9587	9561	427	1.922	9123	377
259	[85]		$C_3H_8N_{10}O_{10}$	0.0	40.7	1.91	1.814			1.820	103.2	-64.7		2.6065	9214	401	10057	482	9558	420	9604	9608	434	1.817	9590	424

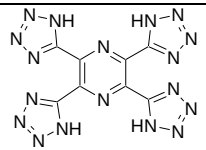
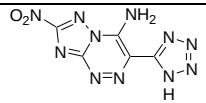
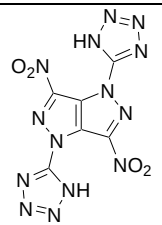
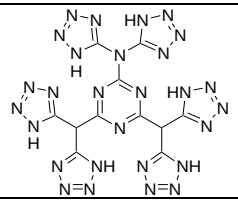
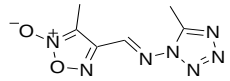
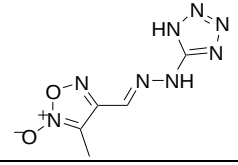
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
260	[85]		$C_3H_{10}N_{12}O_{10}$	-14.0	49.1	1.83	1.751			1.787	355.5	238.6		2.3665	8272	331	9998	477	9167	376	9329	9192	395	1.769	9230	379
268	[88]		$C_2H_3N_{11}O_2$	-61.0	61.8	1.819			2.067	1.776	723.4	926.9	728.72	2.4734	8517	342	8709	357	7635	260	8169	8258	320	1.921	8312	270.4
283	[92]		$C_7H_5N_9$*	-122.7	58.6	1.59				1.518	882.5	941.3	753.40	2.3910	7504	247	-	-	6188	157	6707	6800	202	1.724	7120	172
284	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.66				1.577	403.9	421.8	313.83	2.2557	7421	255	6492	150	6833	197	6865	6903	201	1.661	7432	204
285	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.63			1.745	1.577	408.7	421.8	313.83	2.2557	7322	245	6492	150	6754	190	6813	6845	195	1.661	7305	195
286	[92]		$C_8H_6N_6O_4$	-95.9	33.6	1.62			1.745	1.577	392.9	421.8	313.83	2.2557	7290	242	6492	150	6706	187	6777	6816	193	1.661	7243	191
287	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	243.4	313.83	2.2957	7651	274	6688	168	7097	216	7075	7128	219	1.677	7247	199
288	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.62			1.746	1.608	287.4	243.4	181.61	2.2957	7384	247	6688	168	6849	195	6900	6955	203	1.677	7268	197
289	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.65			1.746	1.608	322.4	243.4	181.61	2.2957	7484	257	6688	168	6977	205	6995	7036	210	1.677	7432	210

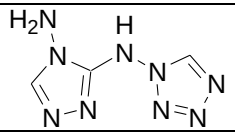
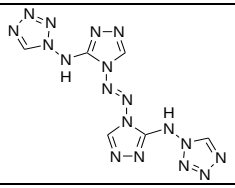
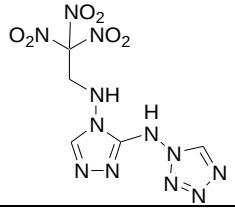
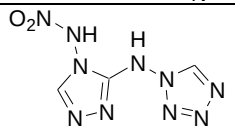
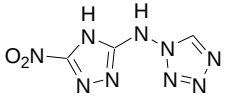
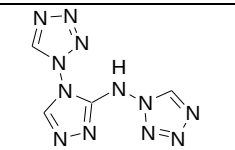
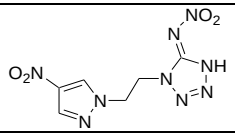
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
290	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.66			1.746	1.608	293.7	243.4	181.61	2.2957	7517	260	6688	168	7006	207	7015	7056	212	1.677	7442	211
291	[92]		$C_{10}H_6N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	584.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
292	[92]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
293	[92]		$C_7H_5N_7O_4$	-79.6	39.0	1.69			1.825	1.675	369.0	427.6	368.26	2.2569	7522	265	7279	223	7051	212	7192	7261	233	1.750	7899	241
294	[92]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	449.9	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.818	8202	280
295	[92]		$C_7H_3N_7O_6$	-54.1	34.9	1.83			1.890	1.750	470.5	361.3	323.71	2.4442	8479	342	7988	289	7989	286	8022	8120	306	1.820	8298	284
296	[92]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	858.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.665	7734	262
297	[93]		$C_5H_8N_{10}O$ *	-76.1	66.7	1.57				1.534	519.8	1006.6		2.5265	7743	256	6736	172	6729	184	7423	7158	204	-	7465	190

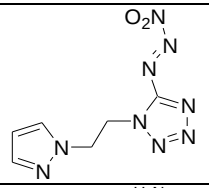
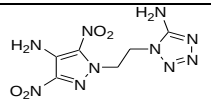
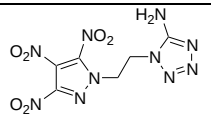
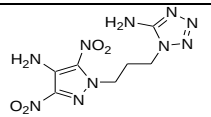
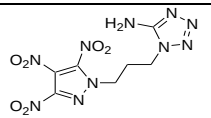
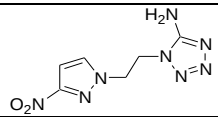
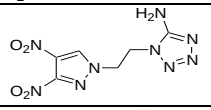
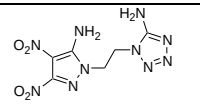
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
298	[93]		$C_6H_5N_{12}O$	-79.9	64.6	1.58				1.554	869.0	1288.7		2.4331	7566	249	7446	239	6635	180	7318	7241	223	-	7262	187
299	[93]		$C_4H_4N_{12}O_7$	-14.5	50.6	1.68			1.937	1.756	345.4	804.3		2.8211	8866	333	10007	478	8035	275	8481	8847	362	1.847	8066	258
300	[93]		$C_4H_4N_{16}O^*$	-49.3	76.7	1.59		1.400		1.597	682.3	1799.7		2.6759	8162	279	9067	390	6631	180	7745	7901	283	1.498	7228	177
310	[95]		$C_6H_2N_{14}O_2$	-58.2	64.9	1.69				1.715	1224.3	1301.6	736.27	2.6207	8415	311	9053	389	7486	239	8118	8268	313	-	8477	280
335	[96]		$C_3H_2N_8O_4$	-47.0	47.1	1.92			1.939	1.944	908	534.7		2.5860	9194	402	8753	361	8838	360	9037	8956	374	2.030	8838	360
347	[96]		$C_2H_3N_9O$	-57.9	81.1	1.68				1.714	686.2	867.5	568.83	2.5014	8086	292	-	-	7664	250	8502	8084	271	-	8449	270
348	[96]		$C_2H_2N_8O$	-41.5	72.7	1.87				1.839	631.4	805.5		2.5414	8885	374	9359	417	8551	332	9207	9000	374	-	9326	364

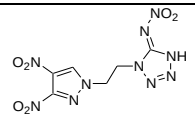
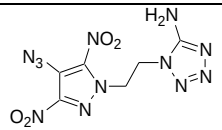
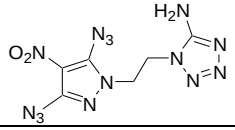
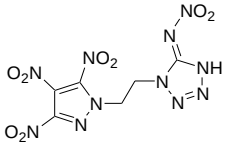
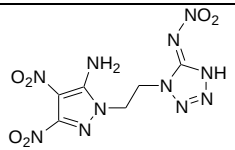
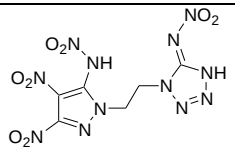
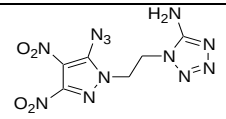
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
349	[96]		$C_2H_2N_8O_2$	-28.2	65.9	1.93				1.955	576.0	743.4		2.5814	9219	406	10037	480	8979	372	9517	9438	419	-	9600	413
364	[96]		$C_5H_5N_{11}O_2$	-61.0	61.8	1.82			2.067	1.776	752.7	926.9	728.72	2.4734	8521	343	8709	357	7685	264	8207	8280	321	1.921	8312	270
375	[98]		$C_4H_6N_{10}O_6$	-27.6	48.3	1.796	1.768			1.709	784.44	308.5		2.2796	7929	305	9166	399	8990	358	9162	8812	354	1.739	9142	365.7
377	[99]		$C_5H_7N_7$*	-130.8	59.4	1.47				1.414	699.62	812.5	481.10	2.3378	6973	203	-	-	6223	151	6701	6632	177	-	7725	245
378	[99]		$C_4H_6N_8$*	-105.9	67.4	1.52				1.536	747.17	895.0	535.53	2.3390	7146	219			6741	181	7292	7060	200	-	7724	203
379	[99]		$C_5H_2N_{10}O_8$	-14.5	42.4	1.79			1.991	1.886	602	582.9	396.52	2.7469	9124	370	9554	435	8641	330	8898	9054	378	1.938	8860	340
380	[99]		$C_5H_2N_{10}O_8$	-14.5	42.4	1.76			1.991	1.886	629	582.9	396.52	2.7469	9005	357	9554	435	8566	321	8834	8990	371	1.938	8780	320
381	[99]		$C_4H_5N_9O$	-64.4	59.7	1.76			1.933	1.772	407.7	483.3	493.71	2.2461	7724	288	8209	310	6410	180	7360	7426	259	1.853	8257	259

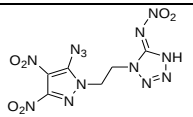
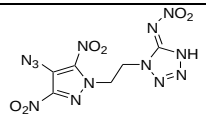
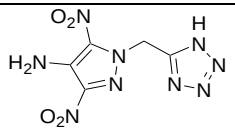
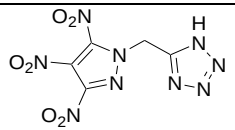
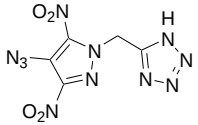
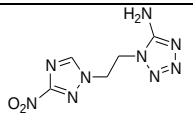
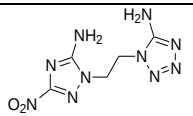
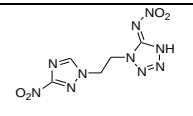
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
382	[99]		$C_7H_5N_9$	-122.7	58.6	1.59				1.518	882.5	941.3	753.40	2.3910	7504	247	-	-	6188	157	6707	6800	202	1.724	7120	172
383	[99]		$C_{10}H_6N_8O_4$	-100.6	37.1	1.64			1.812	1.627	654.3	676.9	548.65	2.3017	7465	254	6496	150	6626	184	6771	6840	196	1.720	7142	189
384	[99]		$C_{10}H_5N_9O_6$	-76.0	36.3	1.68			1.862	1.705	628.0	576.5	526.42	2.4090	7860	281	7338	229	7104	215	7239	7385	242	1.784	7812	219
385	[99]		$C_6H_5N_5O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	335.4	181.61	2.2957	7651	274	6859	184	7097	216	7075	7170	225	1.677	7274	199
386	[99]		$C_7H_5N_7O_4$	-79.6	39.0	1.69			1.825	1.675	369.0	427.6	368.26	2.2569	7522	265	7279	223	7051	212	7192	7261	233	1.750	7899	241
387	[99]		$C_7H_3N_7O_6$	-54.1	34.9	1.83			1.890	1.750	470.5	453.2	323.71	2.4442	8479	342	7988	289	7989	286	8022	8120	306	1.820	8298	284
388	[99]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	950.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.516	7734	262
389	[99]		$C_7H_4N_8O_6$	-54.0	37.8	1.76			1.882	1.755	495.4	541.8	377.18	2.3642	8026	304	8121	302	7816	267	7917	7970	291	1.755	8208	280

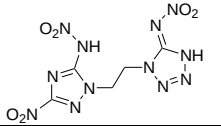
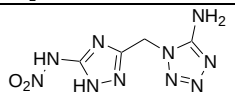
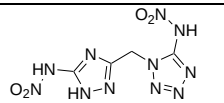
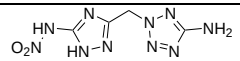
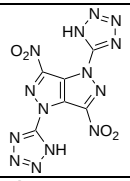
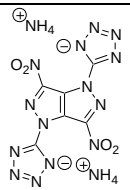
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
390	[99]		$C_8H_4N_{18}$	-81.8	71.6	1.95				1.681	1383	1778.2	1343.61	2.4267	8856	389	-	-	7518	263	8191	8188	326	-	8655	280
391	[99]		$C_5H_3N_{11}O_2$	-61.0	61.8	1.87			2.067	1.776	721.6	926.9	728.72	2.4734	8700	363	8709	357	7783	275	8293	8371	332	1.921	9010	328
392	[99]		$C_6H_3N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
393	[99]		$C_{11}H_8N_{28}$	-78.1	73.7	1.88				1.664	1833.0	2719.1	2025.10	2.5203	8865	375	-	-	7280	241	8065	8070	308	-	7430	251
394	[99]		$C_6H_7N_7O_2$	-103.3	46.9	1.531				1.490	568.96	537.6		2.3438	7194	223	6118	115	6644	177	6903	6715	172	-	6900	192.4
395	[99]		$C_5H_6N_8O_2$	-83.8	53.3	1.62				1.595	760.2	525.0		2.2449	7264	241	7169	213	7407	228	7685	7381	227	-	7991	235

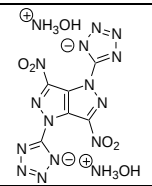
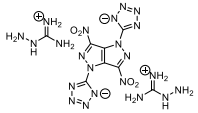
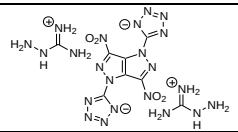
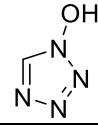
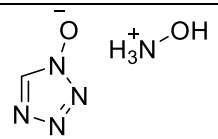
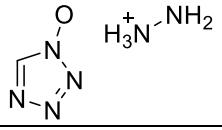
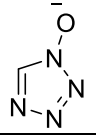
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
396	[99]		$C_3H_5N_9$	-81.4	75.4	1.65				1.662	862.9	550.5	621.11	2.3402	7591	262	-	-	7632	245	8236	7820	254	-	8789	277
397	[99]		$C_6H_6N_{18}$	-72.7	76.3	1.68				1.661	1799.4	1586.1	1265.19	2.6211	8378	307	-	-	7669	250	8357	8135	278	-	8599	276
398	[99]		$C_6H_6N_{15}O_6$	-33.9	50.9	1.77			1.927	1.772	1091.8	690.7	558.48	2.4997	8409	327	9346	416	8791	339	9032	8894	361	1.849	9004	349
399	[99]		$C_3H_4N_{10}O_2$	-45.3	66.0	1.78			2.027	1.777	923.3	787.3	630.03	2.4475	8310	323	9240	406	8591	325	9065	8802	351	1.902	9141	336
400	[99]		$C_3H_3N_9O_2$	-44.6	64.0	1.74			2.050	1.787	950.6	484.1	555.97	2.4274	8117	305	9288	411	8541	317	9016	8740	344	1.918	8885	321
401	[99]		$C_2H_4N_{12}$	-72.7	76.3	1.71				1.683	1256.5	964.8	908.36	2.5876	8409	315	-	-	7848	265	8514	8257	290	-	9695	284
402	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.65			1.818	1.649	463	602.4	405.89	2.3711	7665	266	7941	285	7337	226	7571	7628	259	1.734	7824	231

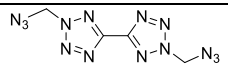
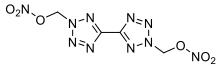
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
403	[99]		$C_6H_7N_{10}O_4$	-91.1	53.2	1.50			1.827	1.509	522.3	818.5	475.60	2.3912	7192	218	6873	185	6435	164	6895	6849	189	1.668	7041	163
404	[99]		$C_6H_8N_{10}O_4$	-67.6	49.3	1.67			1.992	1.678	373.7	565.3	450.79	2.2911	7539	263	8057	296	7277	224	7569	7610	261	1.835	7889	232
405	[99]		$C_6H_4N_{10}O_6$	-45.8	44.6	1.71			1.873	1.745	430.7	594.0	406.24	2.4784	8138	301	8689	355	7817	263	8033	8169	306	1.809	8172	271
406	[99]		$C_7H_{10}N_{10}O_4$	-80.5	47.0	1.65			1.920	1.611	364.6	540.7	430.15	2.2099	7278	246	7503	244	7069	210	7301	7288	233	1.765	7768	218
407	[99]		$C_7H_8N_{10}O_6$	-58.5	42.7	1.67			1.805	1.676	437.3	569.4	385.60	2.3972	7797	276	8205	310	7565	242	7725	7823	276	1.740	7959	247
408	[99]		$C_6H_8N_8O_2$	-99.9	50.0	1.53			1.920	1.552	355.8	610.8	450.70	2.2638	7013	214	6285	130	6330	160	6730	6590	168	1.736	7072	168
409	[99]		$C_6H_7N_9O_4$	-68.4	46.8	1.59			1.818	1.659	394.7	602.4	428.47	2.3711	7458	245	7941	285	7067	205	7363	7457	245	1.739	7516	206
410	[99]		$C_6H_8N_{10}O_4$	-67.6	49.3	1.68			1.992	1.678	369.0	565.3	450.79	2.2911	7573	266	8057	296	7300	227	7588	7630	263	1.835	7883	230

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
411	[99]		$C_6H_6N_{10}O_6$	-45.8	44.6	1.69			1.873	1.735	485.6	594.0	383.66	2.4784	8066	293	8689	355	7814	261	8031	8150	303	1.804	8114	267
412	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.70		1.443	1.938	1.674	784.9	1090.9	714.80	2.4458	8021	293	8660	352	7692	253	8051	8106	299	1.558	8185	261
413	[99]		$C_6H_6N_{14}O_2$	-67.9	64.0	1.63		1.384	2.005	1.608	1057.8	1480.6	1023.36	2.4132	7695	264	8334	322	7286	221	7842	7789	269	1.496	7917	231
414	[99]		$C_6H_5N_{11}O_8$	-29.0	42.9	1.77			1.914	1.788	516.3	585.6	361.43	2.4391	8253	318	9155	398	8337	305	8529	8568	340	1.851	8555	316
415	[99]		$C_6H_7N_{11}O_6$	-46.2	46.8	1.76			2.045	1.731	455.8	556.9	405.98	2.2518	7738	289	8778	363	7990	279	8201	8177	310	1.888	8388	288
416	[99]		$C_6H_6N_{12}O_8$	-29.9	44.9	1.84			1.907	1.791	501.8	579.1	414.90	2.3591	8287	334	9224	405	8534	327	8712	8689	355	1.849	8804	342
417	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.71		1.443	1.938	1.674	727.2	1090.9	714.80	2.4458	8057	297	8660	352	7657	252	8024	8100	300	1.558	8186	263

		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
418	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.81		1.544	1.971	1.453	812.5	1082.5	669.99	2.4065	8309	329	9209	403	8336	309	8634	8622	347	1.498	8748	327
419	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.78		1.544	1.971	1.724	844.4	1082.5	669.99	2.4065	8204	318	9209	403	8270	301	8579	8566	341	1.634	8659	318
420	[99]		$C_2H_5N_9O_4$	-53.3	49.4	1.83			2.080	1.753	390.7	439.9	428.52	2.3522	8234	329	8582	345	7944	283	8188	8237	319	1.917	8548	300
421	[99]		$C_2H_3N_9O_6$	-30.9	44.2	1.86			1.958	1.824	456.7	468.6	383.97	2.5395	8843	369	9144	397	8488	326	8690	8791	364	1.891	8845	345
422	[99]		$C_2H_3N_{11}O_4$	-42.7	54.8	1.81		1.473	2.031	1.741	782.1	965.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
423	[99]		$C_2H_7N_9O_2$	-81.7	56.0	1.58			2.009	1.589	382.8	637.9	504.13	2.3651	7410	241	7265	222	6690	183	7181	7136	215	1.799	7395	188
424	[99]		$C_2H_9N_{10}O_2$	-79.9	58.3	1.66			1.825	1.614	359.4	695.9	526.45	2.2851	7492	259	7349	230	6879	200	7390	7278	230	1.720	7807	216
425	[99]		$C_2H_6N_{10}O_4$	-53.3	51.8	1.66			1.892	1.663	476.8	629.5	459.32	2.3258	7590	264	8668	353	7534	240	7887	7920	286	1.777	8113	256

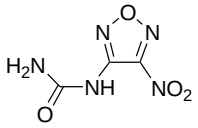
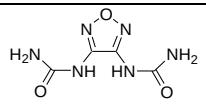
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
426	[99]		$C_5H_6N_{12}O_6$	-33.9	50.9	1.69			1.927	1.753	511.5	709.7	490.56	2.3531	7758	277	9346	416	7947	270	8299	8338	321	1.840	8690	322
427	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.71			1.919	1.699	476.2	659.1	557.65	2.2662	7611	273	8236	312	7406	236	7929	7796	274	1.809	8187	249
428	[99]		$C_4H_5N_{11}O_4$	-38.4	56.8	1.81			1.966	1.785	285.0	742.7	566.57	2.3735	8222	324	9388	420	7847	274	8356	8453	339	1.875	8750	318
429	[99]		$C_4H_6N_{10}O_2$	-63.7	61.9	1.72			1.919	1.699	462.8	659.1	557.65	2.2662	7644	277	8236	312	7411	237	7937	7807	275	1.809	8213	252
454	[103]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.79			2.107	1.893	1111.5	1085.5	914.35	2.7007	9004	363	9365	418	8061	287	8561	8748	356	2.000	8721	309
455	[103]		$C_6H_8N_{16}O_4$	-52.1	60.9	1.69	1.705			1.724	916.8	1181.2		2.9267	9167	350	9072	390	7682	252	8171	8523	331	1.715	8404	262

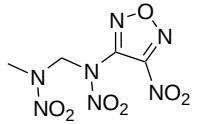
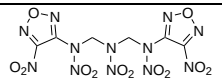
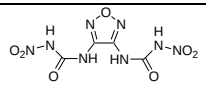
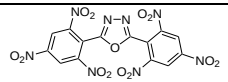
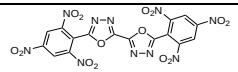
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456	[103]		$C_6H_8N_{16}O_6$	-40.0	56.0	1.61	1.740			1.760	1062.2	803.5		2.8065	8545	302	9369	418	7853	255	8262	8507	325	1.750	8237	260
457	[103]		$C_6H_{16}N_{18}O_4$*	-63.0	63.9	1.75	1.648			1.720	1223.0	945.3		2.0985	7316	264	8793	364	7746	262	8223	8020	297	1.684	9082	313
458	[103]		$C_6H_{14}N_{22}O_4$*	-63.0	63.9	1.64	1.648			1.720	1143.3	1325.7		2.0985	6981	230	8793	364	7344	226	7893	7753	273	1.684	8396	249
474	[106]		CH_2N_4O	-37.2	65.1	1.63			2.075	1.681	252	238.1	111.87	2.4741	7840	271	8682	354	7977	265	8516	8254	297	1.825	8405	269
475	[106]		$CH_5N_5O_2$	-33.6	58.8	1.67	1.646			1.634	343	192.2		2.4269	7869	280	8814	366	7818	259	8333	8208	302	1.785	9284	331
476	[106]		CH_6N_6O	-54.2	71.2	1.60	1.553			1.594	259	296.3		2.3069	7343	241	6198	122	7838	253	8394	7443	205	1.574	9437	319
477	[106]		CH_5N_5O	-54.3	67.9	1.40	1.568			1.562	207	333.4		2.4870	7646	250	6287	131	7683	240	8207	7456	207	1.574	8013	213

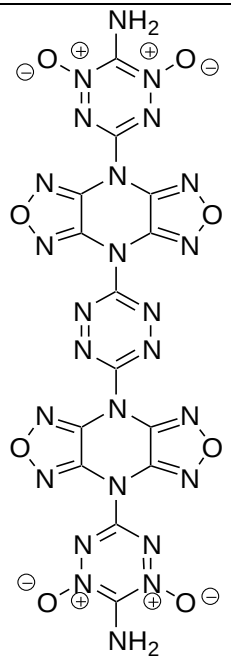
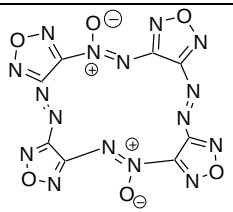
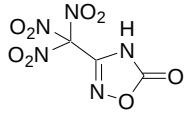
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478	[107]		$C_4H_4N_{14}$	-64.5	79.0	1.62		1.311	2.147	1.551	1258	1596.1	1130.13	2.5885	8073	281	-	-	7444	230	8238	7918	256	1.670	8155	237
479	[107]		$C_4H_4N_{10}O_6$	-22.2	48.6	1.69			1.955	1.764	441	600.8	248.57	2.7337	8693	326	9054	389	8152	284	8496	8599	333	1.860	8377	286

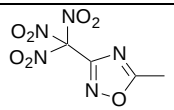
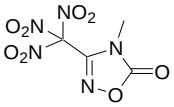
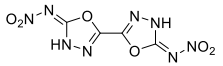
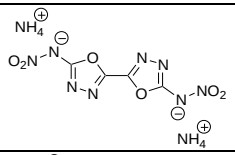
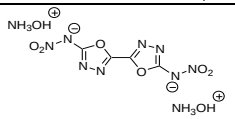
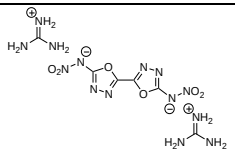
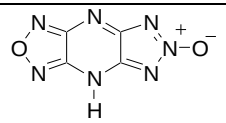
2.1.13 Oxazoles

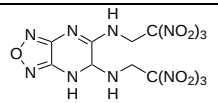
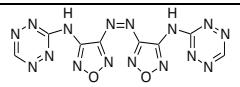
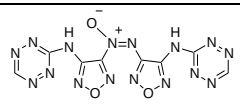
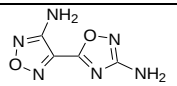
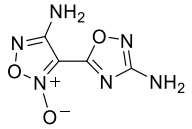
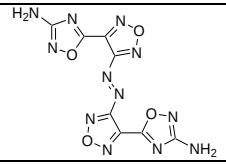
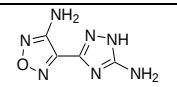
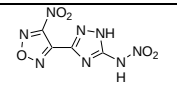
Table 24. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure (P_{C-J}), heat of formation and density for the selected diazoles at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

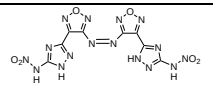
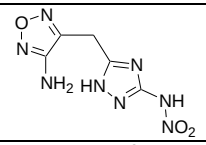
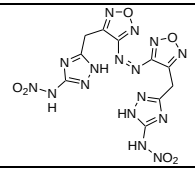
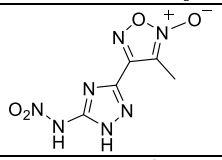
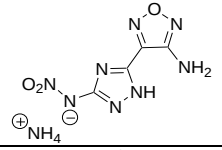
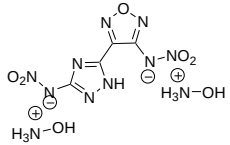
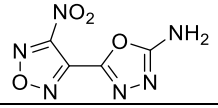
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
4	[25]		$C_3H_3N_5O_4$	-32.4	40.5	1.68			1.862	1.811	63	-134.6	49.68	2.2660	7511	263	8516	339	7751	255	7979	7939	286	1.837	7759	236
8	[25]		$C_4H_6N_6O_3^+$	-68.8	45.2	1.95			1.742	1.697	-162	-261.1	30.18	1.9647	7547	311	6885	186	7281	246	7590	7326	248	1.720	8283	245

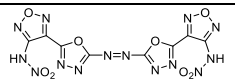
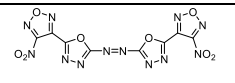
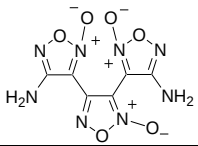
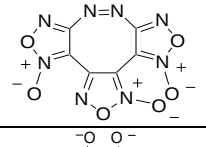
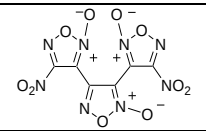
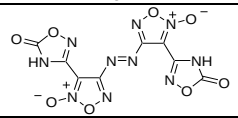
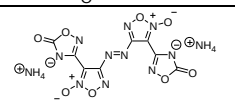
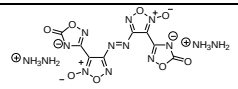
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10	[29]		$C_4H_5N_7O_7$	-21.3	37.3	1.74			1.921	1.767	265	172.9	83.91	2.5524	8433	322	9184	401	8579	320	8644	8710	348	1.844	8596	322
11	[29]		$C_6H_4N_{12}O_{12}$	-7.3	38.5	1.90			1.932	1.884	603	391.8	195.66	2.8731	9912	440	9600	440	9248	392	9364	9531	424	1.908	9334	393
16	[25]		$C_4H_2N_8O_7$	-17.4	34.1	1.87			1.892	1.875	-22	-183.9	116.31	2.1793	7901	317	8908	375	8487	327	8671	8492	340	1.883	8685	322
22	[32] [33]		$C_{14}H_4N_8O_{13}$	-55.3	22.8	1.77			1.831	1.779	266.55	232.1	114.41	2.3729	8083	309	7350	230	7543	250	7478	7614	263	1.805	7840	279
23	[32]		$C_{16}H_4N_{10}O_{14}$	-57.1	25.0	1.837			1.857	1.781	197.6	409.9	180.15	2.4589	8543	347	7377	232	7547	256	7486	7738	278	1.819	8030	273

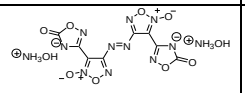
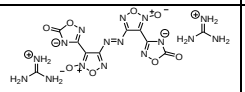
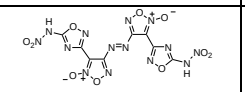
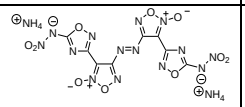
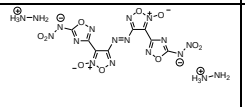
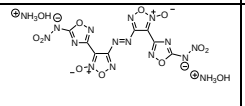
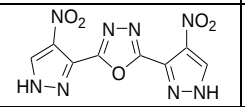
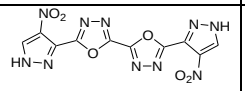
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
42	[38]		$C_{14}H_4N_{26}O_8$	-53.0	54.8	1.903				1.893	2128	2178.2		2.9857	10236	459	8854	370	8184	307	8559	8958	379	-	8700	320
43	[38] [39]		$C_8N_{16}O_6$	-38.4	53.8	1.761				1.786	1702.27	1722.0		2.8875	9368	377	9283	410	8217	296	8696	8891	361	-	9368	377
96	[54]		$C_3H_1N_5O_8$ *	10.2	29.8	1.95			1.920	1.972	142	-257.9	-171.82	2.5333	9158	407	8870	372	9619	430	9658	9326	403	1.946	8798	331

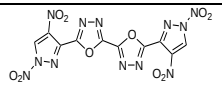
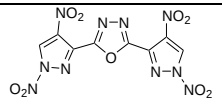
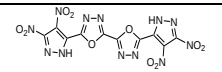
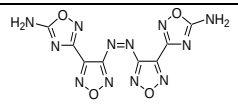
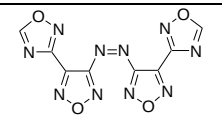
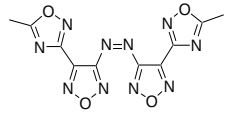
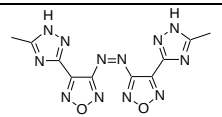
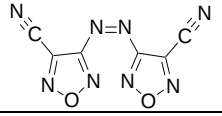
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
97	[54]		$C_4H_3N_5O_7$	-17.2	30.0	1.84			1.834	1.784	43	78.1	-59.90	2.5122	8696	357	8980	382	8686	339	8655	8754	359	1.809	8779	346
98	[54]		$C_4H_3N_5O_8$	-9.6	28.1	1.80			1.829	1.833	133	-23.5	-183.34	2.5522	8655	346	8404	328	8868	349	8835	8690	341	1.831	8804	346
123	[58]		$C_4H_2N_8O_6$	-18.6	43.4	1.98			1.981	1.849	278.6	190.5	66.11	2.3467	8731	387	8566	343	8941	375	9130	8842	368	1.915	9388	391
124	[58]		$C_4H_8N_{10}O_6$	-32.9	47.9	1.95	1.728			1.693	-71.8	408.8		2.7193	9685	438	8653	351	8467	333	8698	8876	374	1.711	9225	349
125	[58]		$C_4H_8N_{10}O_{10}$	-19.7	43.2	1.92	1.770			1.725	70.2	31.1		2.5991	9231	404	8968	381	8953	369	9042	9048	385	1.748	9186	341
126	[58]		$C_4H_{12}N_{14}O_6$	-51.0	52.1	1.79	1.670			1.686	-59.9	437.4		2.0511	7315	271	8386	326	7489	248	7931	7780	282	1.678	8027	248
137	[63]		$C_4HN_7O_2$	-58.1	54.7	1.85				1.870	597	475.7	521.64	2.4133	8467	346	8748	360	7913	282	8314	8360	329	-	8532	324

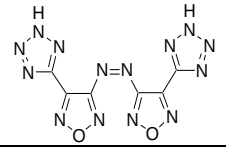
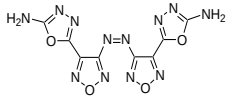
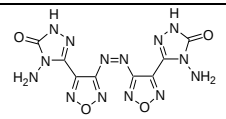
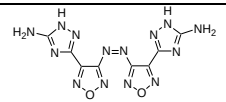
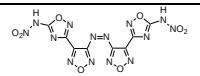
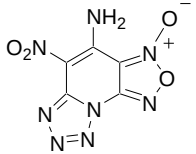
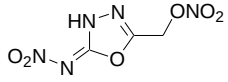
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
138	[63]		$C_8H_8N_{12}O_{13}$	-23.3	35.0	1.80			1.830	1.806	110	138.0	162.52	2.3038	8005	310	8907	375	8430	315	8483	8456	333	1.818	8409	321
162	[67]		$C_8H_4N_{16}O_2$	-71.9	62.9	1.67				1.609	1654.3	1283.9	895.13	2.5129	8078	290	8373	325	7457	236	7996	7976	284	-	8075	251
163	[67]		$C_8H_4N_{16}O_3$	-64.5	60.2	1.75				1.657	1517.6	1313.8		2.5529	8471	326	8644	350	7752	262	8223	8272	313	-	8401	283
191	[71]		$C_4H_4N_8O_2$	-76.1	50.0	1.680				1.716	186.6	246.9	155.73	2.2787	7542	265	7458	240	6820	198	7227	7262	234	-	7459	204
192	[71]		$C_4H_4N_8O_3$	-60.8	45.6	1.788				1.819	185.9	184.97		2.3187	8004	308	8085	298	7576	254	7787	7863	287	-	8193	268
193	[71]		$C_8H_4N_{12}O_2$	-67.4	50.6	1.652				1.716	705.5	868.1	334.43	2.4981	7976	282	8192	308	6964	204	7405	7634	265	-	7547	216
194	[71]		$C_4H_5N_7O^*$	-91.0	58.7	1.716				1.685	290.8	279.8	325.54	2.1587	7362	261	5873	92	6698	193	7229	6790	182	-	7798	215
197	[73]		$C_4H_2N_8O_5$	-26.4	46.3	1.851			1.996	1.881	524.66	322.8	289.91	2.4533	8578	352	9389	420	8648	337	8902	8879	370	1.938	9025	360

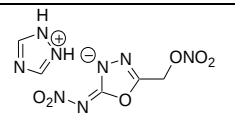
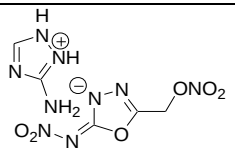
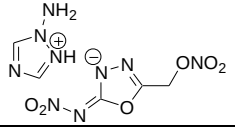
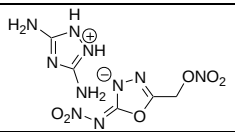
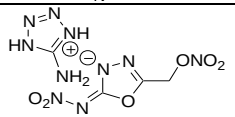
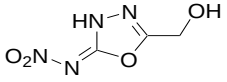
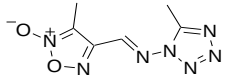
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
198	[73]		$C_8H_4N_{16}O_6$	-45.7	53.3	1.873			2.033	1.799	1274.4	1121.9	691.89	2.4727	8709	364	9045	388	8392	320	8719	8716	357	1.916	8973	349
199	[73]		$C_5H_6N_8O_3$	-70.8	49.5	1.695			1.832	1.692	449.0	364.6	313.82	2.1848	7361	258	7834	275	7456	238	7699	7588	257	1.762	8079	249
200	[73]		$C_{10}H_8N_{16}O_6$	-64.2	50.0	1.704			1.924	1.692	1206.2	1072.8	650.61	2.3103	7700	277	8314	320	7607	248	7890	7878	282	1.808	8125	260
201	[73]		$C_5H_5N_7O_4$	-59.9	43.2	1.741			1.932	1.750	443.8	321.3		2.3048	7810	289	8098	300	7873	269	7986	7942	286	1.841	8236	282
202	[73]		$C_5H_9N_9O_3$ *	-59.3	55.0	1.680	1.658			1.679	328.2	481.4		2.3790	7787	277	8386	326	7494	239	7872	7885	281	1.668	8130	246
203	[73]		$C_5H_{11}N_{11}O_7$	-27.2	47.7	1.850	1.736			1.723	327.3	190.7		2.4791	8032	290	9478	428	8286	292	8505	8575	337	1.730	9135	366
220	[77]		$C_4H_2N_8O_4$	-40.4	42.4	1.747			1.950	1.823	219.4	236.0	111.18	2.4660	8240	313	8781	363	7724	260	7991	8184	312	1.976	8102	269

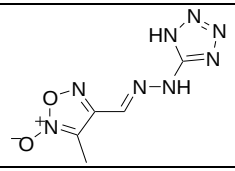
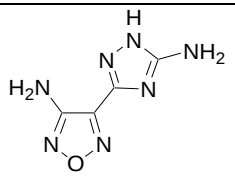
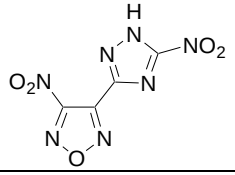
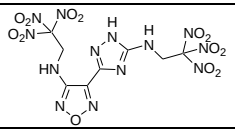
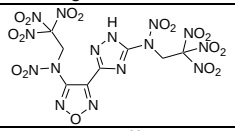
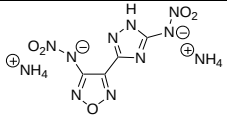
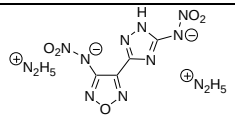
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
221	[77]		$C_8H_2N_{14}O_8$	-34.1	-34.1	1.767			2.033	1.826	786.1	1026.3	352.27	2.7127	8945	355	8660	352	7940	277	8295	8460	328	1.929	8409	293
222	[77]		$C_8N_{12}O_8$	-32.6	42.9	1.825			2.056	1.824	854.2	790.8	245.33	2.8727	9598	404	8954	379	8170	299	8475	8683	346	1.940	8800	351
242	[83]		$C_6H_4N_8O_6$	-45.0	39.4	1.787				1.953	492.8	199.0		2.4847	8432	331	8485	336	8145	293	8248	8328	320	-	8480	310
243	[83]		$C_6N_8O_6$	-34.3	40.0	1.895				2.017	894.9	501.5		2.6993	9412	409	8830	368	8716	347	8936	8974	375	2.076	9417	396
244	[83]		$C_6N_8O_{10}$	-9.3	32.6	1.914				2.062	579.2	161.4		2.8593	9932	444	9213	404	9106	381	9228	9370	410	-	9503	408
245	[84]		$C_8H_5N_{10}O$	-39.3	38.3	1.90				1.925	633.44	313.9		2.6179	9207	399	7922	283	8368	321	8485	8496	334	-	8891	347
246	[84]		$C_8H_{12}N_{12}O_8$	-48.0	42.0	1.65	1.743			1.762	534.88	560.1		2.8439	8798	323	7946	285	7647	246	7647	8058	285	1.752	8234	273
247	[84]		$C_8H_{16}N_{14}O_8$	-48.3	45.6	1.71	1.723			1.768	887.15	295.6		2.4837	8151	301	8700	356	8099	282	8255	8301	313	1.746	8453	293

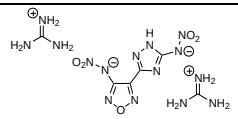
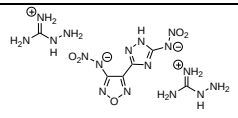
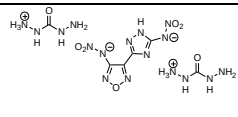
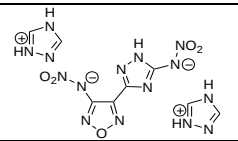
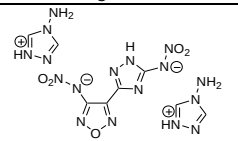
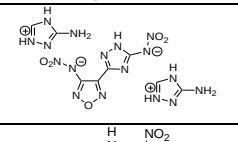
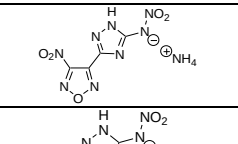
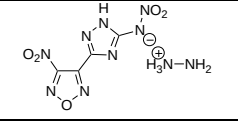
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
248	[84]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.72	1.773			1.794	666.58	-7.8		2.7237	8787	337	8206	310	8234	293	8326	8388	313	1.784	8445	307
249	[84]		$C_{11}H_{12}N_{16}O_8$	-59.5	46.3	1.65	1.695			1.744	504.79	398.5		2.1757	7196	242	7892	280	6871	198	7293	7313	240	1.720	8150	267
250	[84]		$C_8H_2N_{14}O_{10}$	-24.7	43.2	1.92			2.112	2.013	1241.13	840.9		2.7927	9771	436	9027	386	9028	375	9235	9265	399	2.062	9505	413
251	[84]		$C_8H_8N_{16}O_{10}$	-32.8	45.9	1.66	1.782			1.778	1060.87	905.9		3.0187	9261	348	8997	383	8134	279	8386	8694	337	1.780	8357	289
252	[84]		$C_8H_{18}N_{18}O_{10}$	-34.0	48.6	1.74	1.763			1.782	1187.52	669.3		2.6585	8701	336	9115	394	8451	310	8677	8736	347	1.772	8860	319
253	[84]		$C_8H_8N_{16}O_{12}$	-24.6	43.1	1.72	1.805			1.804	1405.62	528.2		2.8985	9224	360	9137	396	8717	328	8895	8993	361	1.804	8846	343
262	[87]		$C_8H_4N_8O_5$	-71.2	38.4	1.800			1.884	1.768	521.57	327.3	365.13	2.2967	7987	309	7264	222	7508	250	7594	7588	260	1.826	8099	271.4
263	[87]		$C_{10}H_4N_{10}O_8$	-71.1	38.9	1.809			1.914	1.773	639.79	505.1	430.87	2.3827	8243	325	7098	206	7431	246	7553	7581	259	1.843	8054	265.3

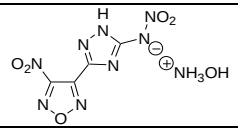
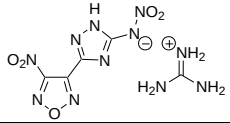
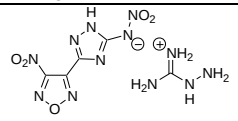
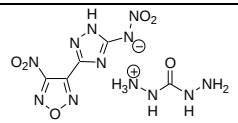
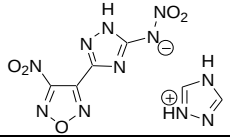
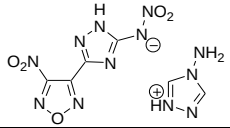
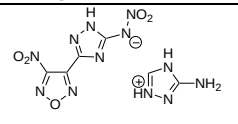
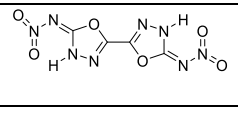
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
264	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.831			1.972	1.903	762.11	660.0	427.59	2.7975	9423	395	8102	300	7499	252	7771	8199	316	1.976	8855	342.3
265	[87]		$C_8H_2N_{10}O_9$	-33.5	36.7	1.844			1.959	1.897	882.44	482.2	361.85	2.7115	9245	388	8434	331	8552	329	8676	8727	349	1.920	8766	333.3
266	[87]		$C_{10}H_2N_{12}O_{10}$	-39.1	37.3	1.870			1.972	1.885	602,65	488.2	386.41	2.5973	9037	382	8102	300	7614	263	7859	8153	315	1.929	8710	327.5
305	[95]		$C_8H_4N_{12}O_4$	-67.4	50.6	1.85				1.716	711.2	828.5	334.43	2.4981	8695	359	7919	283	7541	256	7855	8002	299	-	8445	283
306	[95]		$C_8H_2N_{10}O_4$	-68.8	46.4	1.68				1.684	832.9	807.7	289.79	2.6581	8469	312	7700	262	7135	216	7496	7700	263	-	7685	227
307	[95]		$C_{10}H_6N_{10}O_4$	-92.1	42.4	1.75				1.567	696.5	835.2	225.57	2.4957	8326	318	6730	172	6971	212	7136	7291	234	-	7781	226
308	[95]		$C_{10}H_8N_{12}O_2$	-107.2	51.2	1.81				1.540	864.3	1019.7	565.19	2.2557	7912	307	6358	137	6891	211	7137	7074	218	-	8482	264
309	[95]		$C_6N_8O_2$	-74.0	51.8	1.62				1.613	933.9	810.9	654.87	2.3927	7612	258	8220	311	6980	202	7509	7580	257	-	7640	218

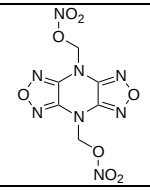
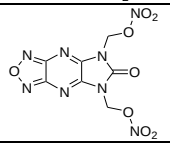
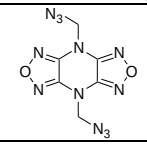
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
310	[95]		$C_6H_2N_{14}O_2$	-58.2	64.9	1.69				1.715	1224.3	1301.6	736.27	2.6207	8415	311	9053	389	7486	239	8118	8268	313	-	8477	280
311	[95]		$C_8H_4N_{12}O_4$	-67.4	50.6	1.83				1.716	684.1	828.5	266.14	2.4981	8622	350	7645	257	7451	249	7785	7876	285	-	8323	273
312	[95]		$C_8H_6N_{14}O_4$	-66.3	54.1	1.68				1.790	769.9	793.8	427.17	2.3381	7687	272	7951	286	7140	217	7590	7592	258	-	7774	224
313	[95]		$C_8H_6N_{14}O_2$*	-82.4	59.4	1.79				1.685	920.8	262	674.05	2.2581	7853	300	7693	262	7180	228	7645	7593	263	-	8458	262
314	[95]		$C_8H_2N_{14}O_8$	-34.1	46.4	2.12			2.033	1.826	1038.0	964.9	352.27	2.7127	10336	520	8875	372	9274	418	9424	9477	437	1.929	10114	461
335	[96]		$C_6H_2N_8O_4$	-47.0	47.1	1.92			1.939	1.944	908	534.7		2.5860	9194	402	8753	361	8838	360	9037	8956	374	2.030	8838	360
370	[98]		$C_3H_3N_5O_6$	-11.7	34.1	1.875			1.794	1.796	26.13	-21.4	-152.23	2.4461	8644	361	8732	359	8858	357	8880	8778	359	1.795	8855	349.9

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
371	[98]		$C_5H_6N_8O_6$	-40.9	40.9	1.772	1.748			1.721	569.08	163.2		2.4049	8172	314	8237	312	7815	268	7988	8053	298	1.735	8630	319.8
372	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.780	1.733			1.717	600.04	221.1		2.1783	7614	285	8361	324	8584	325	8651	8302	311	1.725	8725	321.2
373	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.802	1.733			1.707	667.09	221.1		2.2784	7946	307	8518	339	8732	338	8781	8494	328	1.720	8877	337.1
374	[98]		$C_5H_8N_{10}O_6$	-42.1	46.0	1.814	1.719			1.733	508.38	279.1		2.0983	7511	286	8622	348	7910	279	8153	8049	304	1.726	8821	321.2
375	[98]		$C_4H_6N_{10}O_6$	-27.6	48.3	1.796	1.768			1.709	784.44	308.5		2.2796	7929	305	9166	399	8990	358	9162	8812	354	1.739	9142	365.7
376	[98]		$C_2H_4N_4O_4$	-40.0	35.0	1.811			1.943	1.678	-75.57	-107.6	-161.48	2.3388	8134	320	7855	277	8042	288	8047	8020	295	1.810	8140	272.2
394	[99]		$C_5H_7N_7O_2$	-103.3	46.9	1.531				1.490	568.96	537.6		2.3438	7194	223	6118	115	6644	177	6903	6715	172	-	6900	192.4

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
395	[99]		$C_5H_6N_8O_2$	-83.8	53.3	1.62				1.595	760.2	525.0		2.2449	7264	241	7169	213	7407	228	7685	7381	227	-	7991	235
432	[101]		$C_4H_5N_7O$	-91.0	58.7	1.596				1.685	404.03	366.9	325.54	2.1587	6986	223	5873	92	6656	182	7161	6669	166	-	6846	193
433	[101]		$C_4HN_7O_5$	-24.7	43.2	1.863			2.013	1.883	499.91	234.2	236.44	2.5333	8837	369	9321	414	8668	340	8907	8933	374	1.948	9152	371
434	[101]		$C_8H_7N_{13}O_{13}$	-21.1	36.9	1.908			1.869	1.822	451.38	340.8	200.28	2.4777	8849	379	9135	396	8962	369	8980	8982	381	1.845	9087	381
435	[101]		$C_8H_5N_{15}O_{17}$	-4.1	36.0	1.932			1.920	1.891	648.95	446.6	206.88	2.8925	10100	458	9560	436	9383	407	9455	9624	434	1.905	9355	401
436	[101]		$C_4H_9N_{11}O_5$	-41.2	52.9	1.822	1.691			1.676	246.19	473.3		2.5993	8861	362	9163	399	8274	306	8549	8712	356	1.683	8897	319
437	[101]		$C_4H_{11}N_{13}O_5$	-42.3	56.7	1.834	1.669			1.691	616.05	589.2		2.2391	7947	313	9281	410	8716	341	8949	8723	355	1.680	9045	349

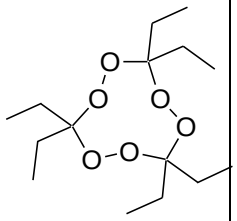
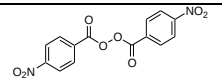
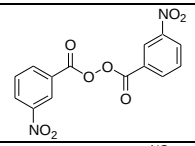
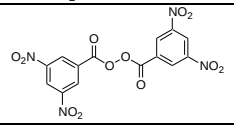
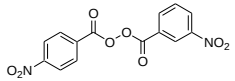
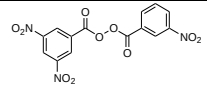
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438	[101]		$C_6H_{13}N_{15}O_5$	-57.6	56.0	1.659	1.641			1.673	249.08	501.9		1.9311	6635	215	8748	360	7260	222	7740	7596	266	1.657	7942	229
439			$C_6H_{15}N_{17}O_5$	-57.2	58.8	1.679	1.627			1.685	656.43	571.8		1.7711	6301	201	8872	372	7723	254	8109	7751	276	1.656	8455	265
440	[101]		$C_6H_{15}N_{17}O_7$	-45.7	54.5	1.687	1.665			1.710	607.27	527.0		1.8511	6517	213	9198	402	8000	273	8300	8004	296	1.688	8159	277
441			$C_6H_9N_{15}O_5$	-62.7	53.2	1.780	1.691			1.711	833.73	906.9		2.2909	7905	301	8466	334	7763	266	8055	8047	300	1.701	8341	264
442	[101]		$C_6H_{11}N_{17}O_5$	-62.1	56.0	1.761	1.674			1.721	1103.75	1068.9		2.3311	7945	300	8604	347	7934	276	8233	8179	308	1.698	8642	291
443	[101]		$C_6H_{11}N_{17}O_5$	-62.1	56.0	1.752	1.674			1.735	804.55	1068.9		2.1309	7405	269	8604	347	7640	255	8006	7914	290	1.704	8373	268
444	[101]		$C_4H_5N_9O_5$	-34.0	48.6	1.815	1.763			1.761	349.86	415.1		2.5663	8748	354	8998	384	8371	312	8610	8682	350	1.762	8716	326
445	[101]		$C_4H_6N_{10}O_5$	-35.0	51.1	1.847	1.746			1.766	519.39	473.0		2.3862	8384	340	9297	411	8677	339	8892	8812	363	1.756	9060	358

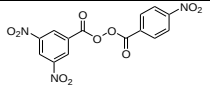
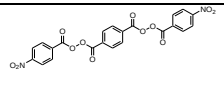
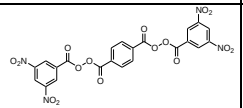
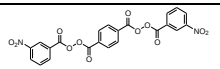
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
446	[101]		$C_4H_5N_9O_6$	-26.2	45.8	1.844	1.785			1.757	402.73	273.8		2.5062	8695	357	9383	419	8747	344	8913	8934	373	1.771	8954	357
447	[101]		$C_5H_7N_{11}O_5$	-45.2	51.2	1.677	1.722			1.746	309.89	429.4		2.2322	7419	258	8964	380	7576	244	7951	7978	294	1.734	7990	247
448	[101]		$C_5H_8N_{12}O_5$	-45.5	53.2	1.670	1.709			1.751	502.18	441.3		2.1522	7202	246	9033	387	7771	256	8120	8032	296	1.730	8187	258
449	[101]		$C_5H_8N_{12}O_6$	-38.5	50.6	1.676	1.730			1.765	468.58	464.9		2.1922	7319	252	9196	402	7932	267	8238	8171	307	1.748	8256	270
450	[101]		$C_6H_5N_{11}O_5$	-48.8	49.5	1.720	1.751			1.770	620.12	654.9		2.4121	8008	296	8778	363	7773	261	8084	8161	307	1.760	8197	271
451	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.748	1.737			1.774	719.34	712.8		2.4322	8157	309	8853	370	7962	276	8261	8308	318	1.756	8424	288
452	[101]		$C_6H_6N_{12}O_5$	-49.1	51.5	1.716	1.737			1.784	570.70	712.8		2.3321	7795	284	8853	370	7697	255	8048	8098	303	1.760	8151	263
453	[102]		$C_4H_2N_8O_6$	-18.6	43.4	1.99			1.981	1.849	159.8	313.1	66.11	2.3467	8765	392	8566	343	8790	363	9006	8782	366	1.915	9457	403.9

		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
466	[105]		$C_6H_4N_8O_8$	-30.4	35.4	1.84			1.874	1.853	276.6	185.4	-45.93	2.6183	8980	373	8546	341	8449	321	8493	8617	345	1.864	8669	334
467	[105]		$C_7H_4N_8O_8$	-39.0	34.1	1.79			1.870	1.840	-7.2	-3.4	-25.84	2.6909	8979	362	7994	290	7746	265	7860	8145	306	1.855	8057	273
470	[105]		$C_6H_4N_{12}O_2$	-69.5	60.9	1.68		1.357		1.652	1100.2	1180.7	835.63	2.4731	8017	289	8304	319	7484	238	7971	7944	282	1.504	8323	278

2.1.14 Peroxides

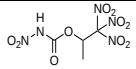
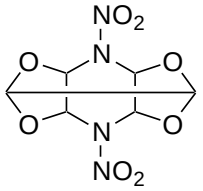
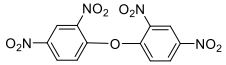
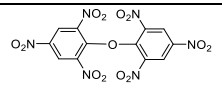
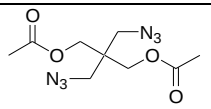
Table 25. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected peroxides at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

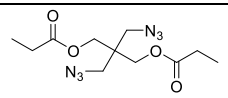
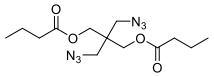
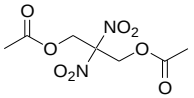
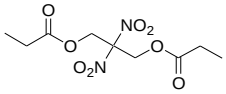
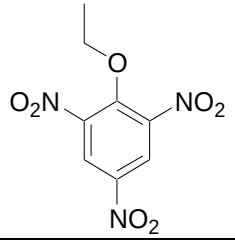
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f°(kJ/mol)	ΔH_f°(kJ/mol) Keshavarz	ΔH_f°(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	$P_{C\text{-}J}$ (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	$P_{C\text{-}J}$ (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	$P_{C\text{-}J}$ (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	$P_{C\text{-}J}$ (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	$P_{C\text{-}J}$ from reference [kbar]
49	[42]		$C_{15}H_{30}O_8$*	-198.3	0.0	1.25				1.124	-583.8	-744.8	-1104.05	1.4425	4600	79	714	-389	4462	69	4599	3594	-120	-	6322	114
67	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.61			1.566	1.547	-415	-353.4	-370.27	1.8697	6354	194	4197	-64	5752	137	5577	5470	134	1.556	6129	130
68	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.608			1.566	1.547	-406	-353.4	-370.27	1.8697	6354	194	4197	-64	5757	137	5582	5471	134	1.556	6130	130
69	[48]		$C_{14}H_6N_4O_{12}$	-72.0	13.3	1.718			1.701	1.686	-410	-358.0	-414.73	2.0843	7183	252	5893	94	6853	202	6662	6648	183	1.694	7087	200
70	[48]		$C_{14}H_8N_2O_8$	-115.6	8.4	1.67			1.566	1.547	-404	-353.4	-370.27	1.8697	6517	211	4197	-64	5909	148	5657	5570	148	1.556	6395	90
71	[48]		$C_{14}H_7N_3O_{10}$	-91.2	11.1	1.70			1.642	1.622	-405	-361.8	-392.50	1.9770	6863	233	5158	25	6451	178	6219	6173	145	1.632	6796	180

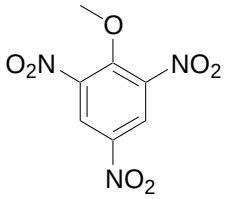
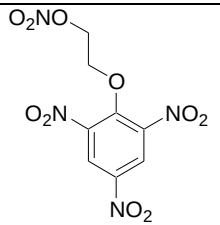
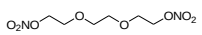
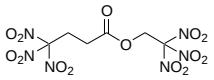
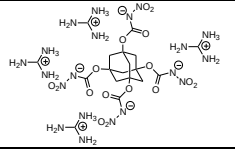
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
72	[48]		$C_{14}H_7N_3O_{10}$	-91.2	11.1	1.69			1.642	1.622	-405	-361.8	-392.50	1.9770	6835	230	5158	25	6425	176	6204	6156	144	1.632	6757	170
73	[48]		$C_{22}H_{12}N_2O_{12}$	-122.5	5.6	1.46			1.545	1.532	-761	-604.1	-776.91	1.5699	5310	128	3642	-116	5179	104	5189	4830	58	1.538	5315	90
74	[48]		$C_{22}H_{10}N_4O_{16}$	-90.1	9.6	1.51			1.646	1.631	-752	-620.9	-821.37	1.7845	5895	160	4929	4	5897	138	5882	5651	101	1.639	6007	130
75	[48]		$C_{22}H_{12}N_2O_{12}$	-122.5	5.6	1.45			1.545	1.532	-752	-604.1	-776.91	1.5699	5288	126	3642	-116	5980	138	5910	5205	74	1.538	5284	90

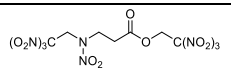
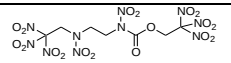
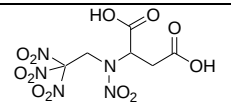
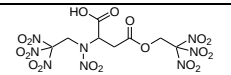
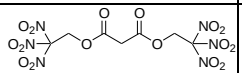
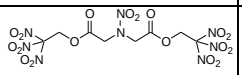
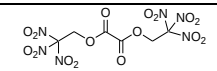
2.1.15 Ethers and Esters

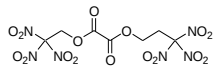
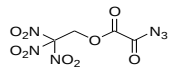
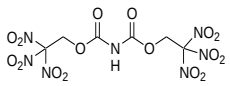
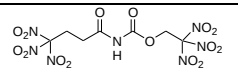
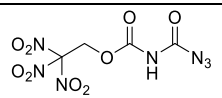
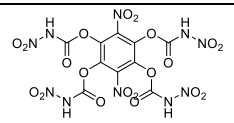
Table 26. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J}$), heat of formation and density for the selected esthers and ethers at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

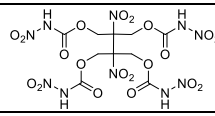
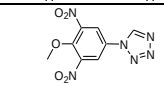
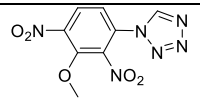
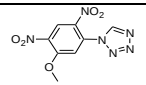
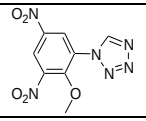
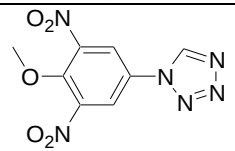
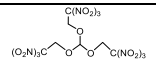
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f°(kJ/mol)	ΔH_f°(kJ/mol) Keshavarz	ΔH_f°(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	$P_{C\text{-}J}$ (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	$P_{C\text{-}J}$ (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	$P_{C\text{-}J}$ (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	$P_{C\text{-}J}$ (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	$P_{C\text{-}J}$ from reference [kbar]
2	[22]		$C_4H_5N_5O_{10}$	-2.8	24.7	1.58			1.747	1.792	-368	-332.1	-431.07	2.5249	7777	259	8582	345	7953	259	8006	7912	259	1.770	7680	228
3	[23] [24]		$C_6H_6N_4O_8$	-42.7	21.4	1.985			1.769	2.007	-541	-35.5	-372.31	2.3697	8822	394	6896	187	8139	311	7832	8092	319	1.888	8615	343
24	[34]		$C_{12}H_6N_4O_9$	-82.2	16.0	1.689			1.606	1.667	-168.1	55.1	-39.09	2.1123	7290	260	6277	130	6827	202	6623	6754	197	1.637	6582	168
25	[34]		$C_{12}H_4N_6O_{13}$	-47.3	19.1	1.70			1.710	1.792	-132.9	-69.0	-83.55	2.3269	8201	329	7449	239	7794	273	7617	7765	280	1.746	7634	250
26	[35]		$C_9H_{14}N_6O_4$*	-124.3	31.1	1.21		1.226	1.443	1.280	-242	-65.3	-108.82	2.0063	5507	109	4203	-64	4912	81	5434	4828	28		5420	79

		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
27	[35]		$C_{11}H_{18}N_6O_4$*	-144.8	28.2	1.16		1.171	1,335	1.230	-296	-114.5	-150.10	1.8439	5088	89	3458	-133	4553	68	5124	4556	12	1.316	5292	72
28	[35]		$C_{13}H_{22}N_6O_4$*	-161.8	25.8	1.09		1.123	1.245	1.192	-349	-163.6	-191.38	1.6815	4648	68	2842	-191	4185	54	4852	4130	-34	1.251	5048	62
29	[35]		$C_7H_{10}N_2O_8$*	-70.3	11.2	1.33			1.423	1.478	-872	-- 810.8	-684.66	2.2339	6297	154	5396	47	5796	122	5916	5851	108	1.347	5683	100
30	[35]		$C_9H_{14}N_2O_8$*	-97.8	10.1	1.22			1.309	1.386	-926	-859.9	-725.94	2.0715	5652	116	4641	-23	5224	93	5435	5238	93	1.348	5111	75
39	[26]		$C_8H_7N_3O_7$	-77.8	16.3	1.554			1.590	1.590	-154.5	-222.2	-170.83	2.1544	6845	210	6303	132	6741	184	6598	6622	175	1.590	6545	191

		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
40	[38]		$C_7H_5N_3O_7$	-62.5	17.3	1.7			1.665	1.665	-187.2	-197.6	-150.19	2.2356	7502	266	6800	178	7263	226	7059	7156	223	1.665	7035	204
41	[38]		$C_8H_6N_4O_{10}$	-45.3	17.6	1.723			1.684	1.707	-277.4	-277.3	-313.81	2.3017	7742	282	7290	224	7684	255	7476	7548	254	1.696	7470	237
44	[38]		$C_6H_{12}N_2O_8$	-66.6	11.7	1.344			1.273	1.452	-656.9	-605.8	-717.57	2.3007	6473	164	5848	90	6468	153	6354	6286	136	1.362	6498	143
45	[38]		$C_6H_6N_6O_{14}$	-4.1	21.8	1.78			1.748	1.780	-421.7	-516.8	-482.52	2.6571	8852	353	8537	340	8658	330	8534	8645	341	1.764	8616	335
76	[49]		$C_{18}H_{44}N_{20}O_{16}$*	-84.4	35.2	1.54	1.551			1.561	-1628	-1313.0		0.8429	3538	68	6836	182	6308	160	6589	5900	137	1.556	6809	159

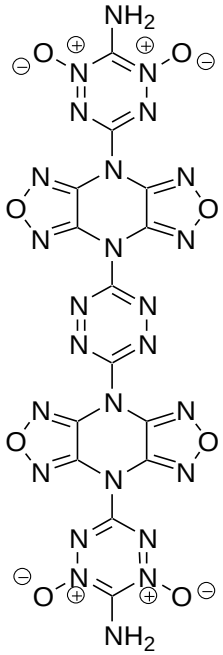
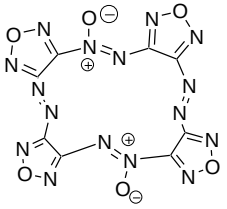
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79	[50]		$C_7H_8N_8O_{16}$	-7.0	24.4	1.73			1.747	1.773	-398.4	-369.2	-446.39	2.7033	8775	338	8653	351	8503	313	8429	8590	334	1.760	8300	292
81	[50]		$C_7H_8N_{10}O_{18}$	0.0	26.9	1.89			1.786	1.816	-292.8	-224.6	-389.62	2.8307	9754	428	9008	384	9212	387	9102	9269	400	1.762	9083	365
82	[50]		$C_6H_7N_9O_{12}$	-16.4	20.5	1.66			1.787	1.738	-824.5	-782.0	-840.91	2.5498	8130	291	7739	266	7671	248	7652	7798	268	1.762	7515	234
83	[50]		$C_8H_8N_8O_{18}$	-6.3	22.2	1.65			1.847	1.787	-777.5	-666.2	-814.41	2.7093	8475	306	8354	323	8014	270	8010	8213	300	1.817	7801	247
94	[53]		$C_7H_6N_8O_{16}$	-3.7	19.5	1.76			1.748	1.789	-759	-813.8	-736.45	2.6631	8790	345	8197	309	8361	306	8262	8402	320	1.768	8263	246
95	[53]		$C_8H_8N_8O_{18}$	-6.3	22.2	1.78			1.748	1.781	-691	-476.0	-700.32	2.7093	8987	360	8354	323	8506	319	8401	8562	334	1.764	8415	240
113	[57]		$C_6H_4N_6O_{16}$*	7.7	20.2	1.84			1.797	1.851	-668.0	-694.1	-715.81	2.7443	9317	392	8017	292	8813	349	8724	8718	344	1.824	8275	286

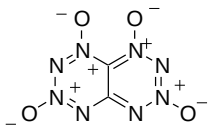
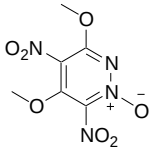
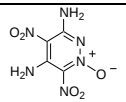
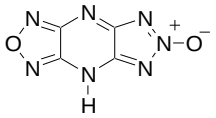
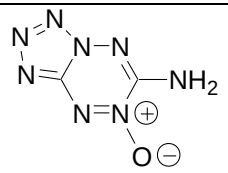
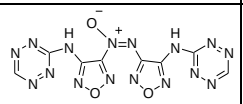
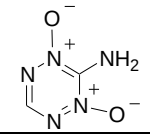
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
114	[57]		$C_7H_6N_6O_{16}$	-3.7	19.5	1.73			1.748	1.789	-705.2	-940.6	-736.45	2.6631	8674	333	8197	309	8305	299	8220	8349	314	1.769	8071	270
115	[57]		$C_4H_2N_6O_9$	0.0	30.2	1.75		1.858		1.782	-170.5	-287.4	-131.00	2.6195	8641	335	8574	344	8353	304	8496	8516	328	1.820	8223	280
116	[57]		$C_6H_5N_7O_{16}$*	5.6	22.7	1.92			1.795	1.851	-775.2	-509.4	-662.34	2.6643	9413	415	8251	314	8967	370	8867	8874	366	1.823	8675	237
117	[57]		$C_7H_7N_7O_{15}$	-9.3	22.8	1.63			1.748	1.776	-645.2	-693.8	-478.28	2.5431	8003	279	8303	319	7889	260	7905	7932	270	1.762	7703	241
118	[57]		$C_4H_3N_7O_9$	-2.7	33.5	1.50		1.878		1.785	-271	-118.5	-77.53	2.5395	7515	233	8697	355	7385	215	7727	7831	268	1.831	7213	189
129	[60]		$C_{10}H_{14}N_6O_{12}$	-5.5	24.0	1.71			1.852	1.924	-1275	-1125.2	-854.39	2.3027	7701	278	8023	293	7629	250	7806	7790	274	1.888	7702	-
130	[60]		$C_{10}H_{16}$	-16.2	23.7	1.89			1.713	1.764	-1441.5	-1355.9	-1051.07	2.2739	8225	340	7846	276	8293	314	8190	8138	310	1.739	8298	-

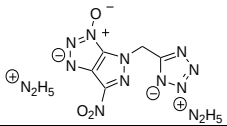
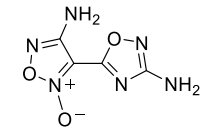
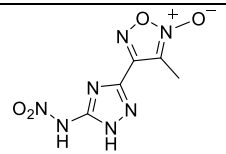
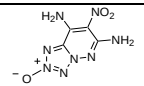
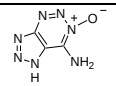
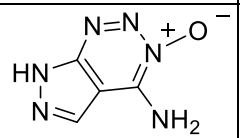
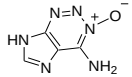
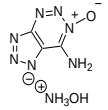
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
			N_6O_{12}																								
287	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	243.4	313.83	2.2957	7651	274	6688	168	7097	216	7075	7128	219	1.677	7247	199
288	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.62			1.746	1.608	287.4	243.4	181.61	2.2957	7384	247	6688	168	6849	195	6900	6955	203	1.677	7268	197
289	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.65			1.746	1.608	322.4	243.4	181.61	2.2957	7484	257	6688	168	6977	205	6995	7036	210	1.677	7432	210
290	[92]		$C_8H_6N_6O_5$	-84.2	31.6	1.66			1.746	1.608	293.7	243.4	181.61	2.2957	7517	260	6688	168	7006	207	7015	7056	212	1.677	7442	211
385	[99]		$C_8H_6N_6O_5$	-84.2	31.6	1.70			1.746	1.608	302.7	335.4	181.61	2.2957	7651	274	6859	184	7097	216	7075	7170	225	1.677	7274	199
482	[110]		$C_7H_7N_9O_{21}$	10.1	22.8	1.81			1.785	1.851	-1021	-519.9	-781.13	2.9306	9687	405	8675	353	8741	340	8702	8951	366	1.818	-	-

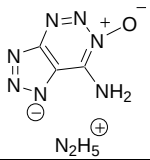
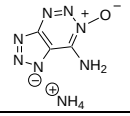
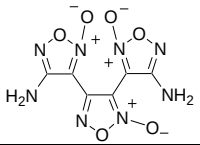
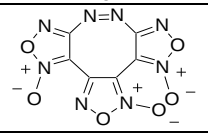
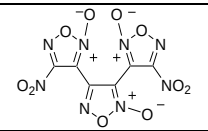
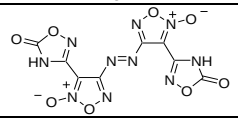
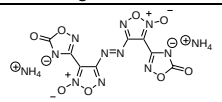
2.1.16 Nitroxides

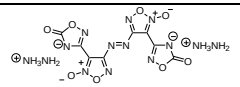
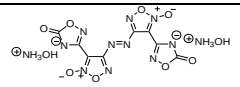
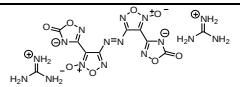
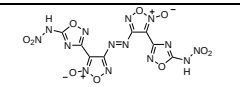
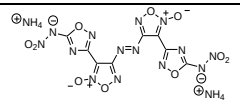
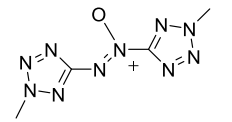
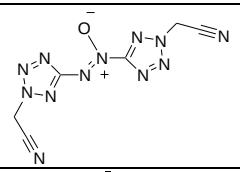
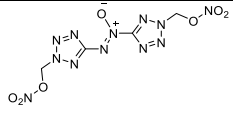
Table 27. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C-J)}$, heat of formation and density for the selected nitroxides at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

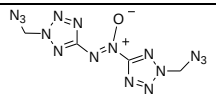
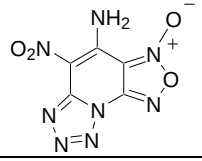
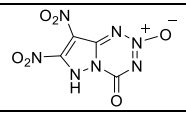
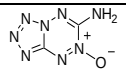
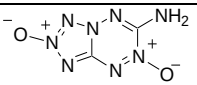
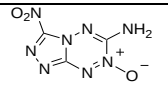
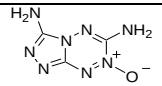
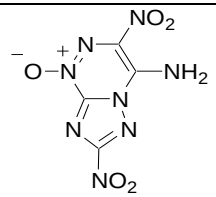
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
42	[38]		$C_{14}H_4N_{26}O_8$	-53.0	54.8	1.903				1.893	2128	2178.2		2.9857	10236	459	8854	370	8184	307	8559	8958	379	-	8700	320
43	[38] [39]		$C_8N_{16}O_6$	-38.4	53.8	1.761				1.786	1702.27	1722.0		2.8875	9368	377	9283	410	8217	296	8696	8891	361	-	9368	377

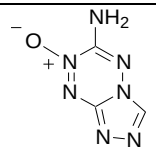
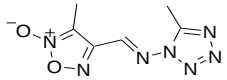
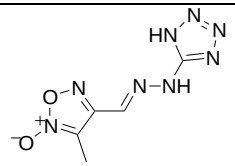
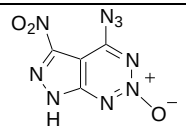
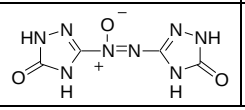
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
57	[46]		$C_2N_8O_4$	0.0	56.0	1.96				2.063	206	401.1		2.7687	9865	451	10734	545	8751	357	9379	9682	451	-	9287	368
127	[59]		$C_6H_6N_4O_7$	-52.0	22.8	1.59			1.764	1.659	-114	-172.8		2.3297	7362	241	7213	217	7314	220	7240	7282	226	1.712	7227	208
128	[59]		$C_4H_4N_6O_5$	-37.0	38.9	1.84			2.116	1.841	110	21.2		2.2521	8001	318	8725	358	8266	307	8335	8332	328	1.978	8486	302
137	[63]		$C_4HN_7O_2$	-58.1	54.7	1.85				1.870	597	475.7	521.64	2.4133	8467	346	8748	360	7913	282	8314	8360	329	-	8532	324
149	[40]		$C_2H_2N_8O$	-41.5	72.7	1.874				1.839	631.4	713.5		2.5414	8885	374	9359	417	8550	332	9206	9000	374	-	9326	364
163	[67]		$C_8H_4N_{16}O_3$	-64.5	60.2	1.75				1.657	1517.6	1313.8		2.5529	8471	326	8644	350	7752	262	8223	8272	313	-	8401	283
164	[67]		$C_2H_3N_5O_2$	-43.4	54.3	1.77				1.786	237.2	270.2		2.3601	8050	307	8799	365	8145	291	8466	8365	321	-	8640	302

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
178	[69]		$C_6H_{14}N_{14}O_3$*	-77.5	59.4	1.69	1.604			1.658	883.2	642.1		2.3519	7755	277	8342	322	7914	267	8269	8070	289	1.631	8778	289
192	[71]		$C_4H_4N_6O_3$	-60.8	45.6	1.788				1.819	185.9	184.97		2.3187	8004	308	8085	298	7576	254	7787	7863	287	-	8193	268
201	[73]		$C_5H_5N_7O_4$	-59.9	43.2	1.741			1.932	1.750	443.8	321.3		2.3048	7810	289	8098	300	7873	269	7986	7942	286	1.841	8236	282
224	[78]		$C_4H_4N_8O_3$	-52.8	52.8	1.886			2.033	1.856	470	502.8		2.3661	8464	353	8669	353	8281	313	8530	8486	340	1.945	9021	348
225	[79]		$C_2H_3N_7O$*	-67.9	64.0	1.815				1.789	537.4	535.8		2.3400	8151	321	7641	257	7868	276	8330	7998	285	-	8792	303
226	[79]		$C_2H_4N_8O$*	-94.7	55.2	1.772				1.721	418.9	361.3		2.2387	7744	291	5901	95	7155	225	7467	7067	204	-	8271	256
227	[79]		$C_2H_4N_8O$*	-94.7	55.2	1.743				1.721	368.3	361.3		2.2387	7650	281	5901	95	6943	210	7309	6951	195	-	8008	233
228	[79]		$C_2H_8N_8O_2$*	-60.2	60.2	1.772	1.643			1.677	282.7	394.8		2.3929	8141	313	8155	305	7686	260	8136	8030	293	-	8607	280

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
229	[79]		$C_3H_7N_9O^*$	-73.5	68.1	1.800	1.584			1.515	625.0	689.2		2.2729	7726	285	6237	126	7594	251	8128	7421	221	1.550	9385	336
230	[79]		$C_3H_7N_9O^*$	-75.2	65.9	1.740	1.595			1.635	474.1	520.3		2.4530	8182	309	6295	131	7622	252	8093	7548	231	1.615	8744	282
242	[83]		$C_6H_4N_8O_6$	-45.0	39.4	1.787				1.953	492.8	199.0		2.4847	8432	331	8485	336	8145	293	8248	8328	320	-	8480	310
243	[83]		$C_6N_8O_6$	-34.3	40.0	1.895				2.017	894.9	501.5		2.6993	9412	409	8830	368	8716	347	8936	8974	375	2.076	9417	396
244	[83]		$C_6N_8O_{10}$	-9.3	32.6	1.914				2.062	579.2	161.4		2.8593	9932	444	9213	404	9106	381	9228	9370	410	-	9503	408
245	[84]		$C_9H_5N_{10}O$	-39.3	38.3	1.90				1.925	633.44	313.9		2.6179	9207	399	7922	283	8368	321	8485	8496	334	-	8891	347
246	[84]		$C_9H_{11}N_{12}O_8$	-48.0	42.0	1.65	1.743			1.762	534.88	560.1		2.8439	8798	323	7946	285	7647	246	7647	8058	285	1.752	8234	273

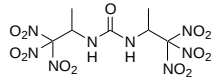
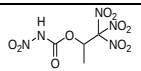
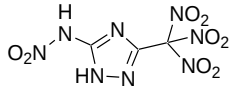
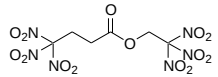
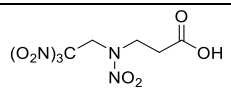
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247	[84]		$C_8H_{10}N_{14}O_8$	-48.3	45.6	1.71	1.723			1.768	887.15	295.6		2.4837	8151	301	8700	356	8099	282	8255	8301	313	1.746	8453	293
248	[84]		$C_8H_8N_{12}O_{10}$	-37.0	38.9	1.72	1.773			1.794	666.58	-7.8		2.7237	8787	337	8206	310	8234	293	8326	8388	313	1.784	8445	307
249	[84]		$C_{11}H_{12}N_{16}O_8$	-59.5	46.3	1.65	1.695			1.744	504.79	398.5		2.1757	7196	242	7892	280	6871	198	7293	7313	240	1.720	8150	267
250	[84]		$C_8H_2N_{14}O_{10}$	-24.7	43.2	1.92			2.112	2.013	1241.13	840.9		2.7927	9771	436	9027	386	9028	375	9235	9265	399	2.062	9505	413
251	[84]		$C_8H_8N_{16}O_{10}$	-32.8	45.9	1.66	1.782			1.778	1060.87	905.9		3.0187	9261	348	8997	383	8134	279	8386	8694	337	1.780	8357	289
297	[93]		$C_5H_6N_{16}O^*$	-76.1	66.7	1.57				1.534	519.8	1006.6		2.5265	7743	256	6736	172	6729	184	7423	7158	204	-	7465	190
298	[93]		$C_6H_5N_{12}O$	-79.9	64.6	1.58				1.554	869.0	1288.7		2.4331	7566	249	7446	239	6635	180	7318	7241	223	-	7262	187
299	[93]		$C_4H_4N_{12}O_7$	-14.5	50.6	1.68			1.937	1.756	345.4	804.3		2.8211	8866	333	10007	478	8035	275	8481	8847	362	1.847	8066	258

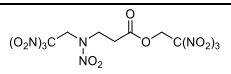
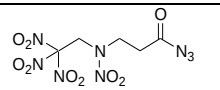
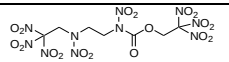
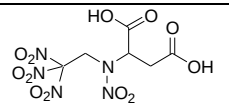
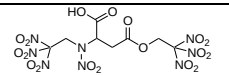
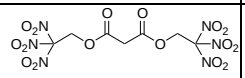
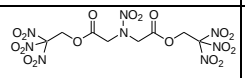
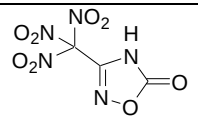
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	ΔH_f^o(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
300	[93]		$C_4H_4N_{16}O$ *	-49.3	76.7	1.59		1.400		1.597	682.3	1799.7		2.6759	8162	279	9067	390	6631	180	7745	7901	283	1.498	7228	177
335	[96]		$C_2H_2N_8O_4$	-47.0	47.1	1.92			1.939	1.944	908	534.7		2.5860	9194	402	8753	361	8838	360	9037	8956	374	2.030	8838	360
345	[96]		$C_4H_3N_7O_6$	-16.5	40.3	2.02			2.095	2.024	131.8	224.5		2.5733	9533	445	9137	397	8855	372	9035	9140	405	2.059	8515	332
348	[96]		$C_2H_2N_8O$	-41.5	72.7	1.87				1.839	631.4	805.5		2.5414	8885	374	9359	417	8551	332	9207	9000	374	-	9326	364
349	[96]		$C_2H_2N_8O_2$	-28.2	65.9	1.93				1.955	576.0	743.4		2.5814	9219	406	10037	480	8979	372	9517	9438	419	-	9600	413
353	[96]		$C_2H_2N_8O_3$	-32.3	56.6	1.86			2.327	1.898	744.0	475.1		2.5474	8865	370	9622	442	8905	359	9282	9168	390	2.112	9384	391
354	[96]		$C_2H_4N_8O$	-66.6	66.7	1.82				1.794	492.0	541.4		2.3601	8221	326	7457	240	7761	269	8298	7934	278	1.937	9008	347
362	[96]		$C_2H_2N_8O_4$	-26.4	46.3	1.90 (predicted)			1.937	2.095	378.0	384.1		2.5534	9029	388	9389	420	8594	338	8850	8966	382	2.016	8970	354

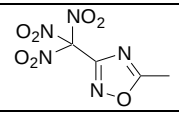
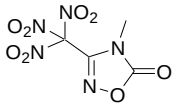
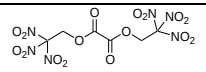
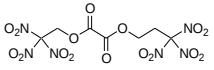
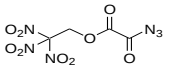
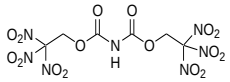
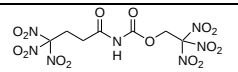
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
369	[97]		$C_2H_3N_7O$	-67.9	64.0	1.70				1.768	524.3	483.5		2.4401	8007	292	7641	257	7487	240	8012	7787	263	1.937	8215	255
394	[99]		$C_6H_7N_7O_2$	-103.3	46.9	1.531				1.490	568.96	537.6		2.3438	7194	223	6118	115	6644	177	6903	6715	172	-	6900	192.4
395	[99]		$C_5H_6N_8O_2$	-83.8	53.3	1.62				1.595	760.2	525.0		2.2449	7264	241	7169	213	7407	228	7685	7381	227	-	7991	235
459	[104]		$C_4HN_9O_3$	-39.4	56.5	1.86		1.441	2.206	1.828	744.75	878.6		2.5007	8738	363	9441	425	8378	317	8823	8845	368	1.821	9111	351.4
464	[24]		$C_4H_4N_8O_3$	-52.8	52.8	1.91				1.868	11	260.3		2.1659	7991	330	7983	289	7357	249	7908	7810	289	1.901	8204	243.9

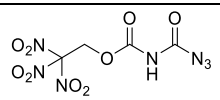
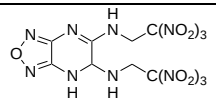
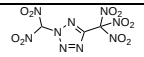
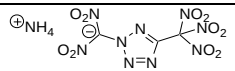
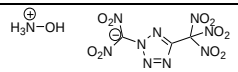
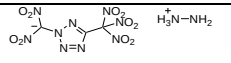
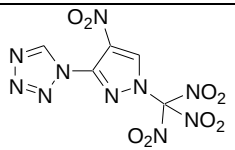
2.1.17 Molecules with a -C(NO$_2$)$_3$ Group present

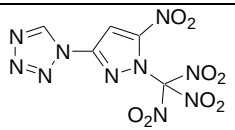
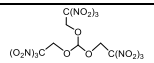
Table 28. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J}$), heat of formation and density for the selected molecules with an -C(NO$_2$)$_3$ group present at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f°(kJ/mol) Keshavarz	ΔH_f°(kJ/mol) Keshavarz	ΔH_f°(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	$P_{C\text{-}J}$ (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	$P_{C\text{-}J}$ (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	$P_{C\text{-}J}$ (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	$P_{C\text{-}J}$ (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	$P_{C\text{-}J}$ from reference [kbar]
1	[22]		$C_7H_{10}N_8O_{13}$	-23.2	27.1	1.82			1.697	1.712	-367	-379.3	-354.36	2.3759	8263	328	8400	328	8547	326	8388	8399	327	1.704	8469	321
2	[22]		$C_4H_5N_5O_{10}$	-2.8	24.7	1.58			1.747	1.792	-368	-332.1	-431.07	2.5249	7777	259	8582	345	7953	259	8006	7912	259	1.770	7680	228
9	[28]		$C_3H_2N_8O_8$*	5.8	40.3	1.91			2.064	1.957	269	278.6	173.26	2.5007	8920	384	9750	454	9397	406	9580	9409	414	2.010	9250	369
45	[38]		$C_6H_6N_6O_{14}$	-4.1	21.8	1.78			1.748	1.780	-421.7	-516.8	-482.52	2.6571	8852	353	8537	340	8658	330	8534	8645	341	1.764	8616	335
78	[50]		$C_5H_7N_5O_{10}$	-18.8	23.6	1.72			1.778	1.711	-463.1	-389.9	-472.89	2.5438	8337	313	8093	299	8150	287	8041	8155	300	1.744	7987	277

		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
79	[50]		$C_7H_8N_8O_{16}$	-7.0	24.4	1.73			1.747	1.773	-398.4	-369.2	-446.39	2.7033	8775	338	8653	351	8503	313	8429	8590	334	1.760	8300	292
80	[50]		$C_5H_6N_9O_9$	-19.9	34.8	1.70		1.685		1.651	98.3	259.4	138.42	2.5785	8349	310	8707	356	8288	294	8363	8427	320	1.687	8285	291
81	[50]		$C_7H_8N_{10}O_{18}$	0.0	26.9	1.89			1.786	1.816	-292.8	-224.6	-389.62	2.8307	9754	428	9008	384	9212	387	9102	9269	400	1.762	9083	365
82	[50]		$C_6H_7N_5O_{12}$	-16.4	20.5	1.66			1.787	1.738	-824.5	-782.0	-840.91	2.5498	8130	291	7739	266	7671	248	7652	7798	268	1.762	7515	234
83	[50]		$C_6H_6N_8O_{18}$	-6.3	22.2	1.65			1.847	1.787	-777.5	-666.2	-814.41	2.7093	8475	306	8354	323	8014	270	8010	8213	300	1.817	7801	247
94	[53]		$C_7H_6N_8O_{16}$	-3.7	19.5	1.76			1.748	1.789	-759	-813.8	-736.45	2.6631	8790	345	8197	309	8361	306	8262	8402	320	1.768	8263	246
95	[53]		$C_6H_6N_8O_{18}$	-6.3	22.2	1.78			1.748	1.781	-691	-476.0	-700.32	2.7093	8987	360	8354	323	8506	319	8401	8562	334	1.764	8415	240
96	[54]		$C_3H_4N_6O_8$*	10.2	29.8	1.95			1.920	1.972	142	-257.9	-171.82	2.5333	9158	407	8870	372	9619	430	9658	9326	403	1.946	8798	331

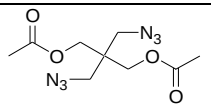
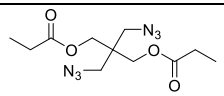
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
97	[54]		$C_4H_3N_5O_7$	-17.2	30.0	1.84			1.834	1.784	43	78.1	-59.90	2.5122	8696	357	8980	382	8686	339	8655	8754	359	1.809	8779	346
98	[54]		$C_4H_3N_5O_8$	-9.6	28.1	1.80			1.829	1.833	133	-23.5	-183.34	2.5522	8655	346	8404	328	8868	349	8835	8690	341	1.831	8804	346
113	[57]		$C_6H_4N_6O_{16}$*	7.7	20.2	1.84			1.797	1.851	-668.0	-694.1	-715.81	2.7443	9317	392	8017	292	8813	349	8724	8718	344	1.824	8275	286
114	[57]		$C_7H_6N_6O_{16}$	-3.7	19.5	1.73			1.748	1.789	-705.2	-940.6	-736.45	2.6631	8674	333	8197	309	8305	299	8220	8349	314	1.769	8071	270
115	[57]		$C_4H_2N_6O_9$	0.0	30.2	1.75		1.858		1.782	-170.5	-287.4	-131.00	2.6195	8641	335	8574	344	8353	304	8496	8516	328	1.820	8223	280
116	[57]		$C_6H_5N_7O_{16}$*	5.6	22.7	1.92			1.795	1.851	-775.2	-509.4	-662.34	2.6643	9413	415	8251	314	8967	370	8867	8874	366	1.823	8675	237
117	[57]		$C_7H_7N_7O_{15}$	-9.3	22.8	1.63			1.748	1.776	-645.2	-693.8	-478.28	2.5431	8003	279	8303	319	7889	260	7905	7932	270	1.762	7703	241

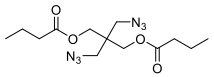
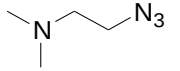
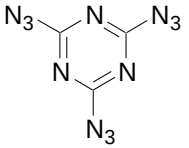
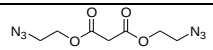
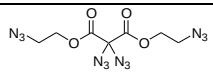
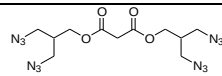
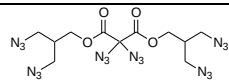
		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
118	[57]		$C_4H_3N_7O_9$	-2.7	33.5	1.50		1.878		1.785	-271	-118.5	-77.53	2.5395	7515	233	8697	355	7385	215	7727	7831	268	1.831	7213	189
138	[63]		$C_8H_8N_{12}O_{13}$	-23.3	35.0	1.80			1.830	1.806	110	138.0	162.52	2.3038	8005	310	8907	375	8430	315	8483	8456	333	1.818	8409	321
254	[85]		$C_3HN_9O_{10}$*	17.3	39.0	1.88			1.997	1.950	284.3	334.6	157.13	2.8082	9651	420	9252	407	9432	405	9684	9505	411	1.974	8511	312
255	[85]		$C_3H_4N_{10}O_{10}$*	9.4	41.2	1.79	1.884			1.896	238.1	334.9		2.8211	9317	380	9678	447	9109	367	9332	9359	398	1.890	8617	316
256	[85]		$C_3H_4N_{10}O_{11}$	13.5	39.3	1.92	1.896			1.912	277.8	193.6		2.7610	9683	431	9450	426	9729	436	9873	9762	434	1.896	9054	363
257	[85]		$C_3H_5N_{11}O_{10}$	6.8	43.4	1.81	1.866			1.904	383.5	297.8		2.6410	8926	363	9881	466	8889	352	9166	9216	394	1.895	8920	346
379	[99]		$C_6H_2N_{10}O_8$	-14.5	42.4	1.79			1.991	1.886	602	582.9	396.52	2.7469	9124	370	9554	435	8641	330	8898	9054	378	1.938	8860	340

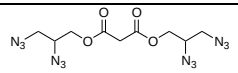
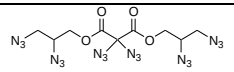
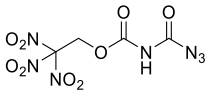
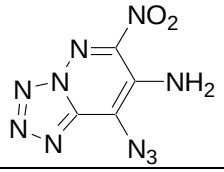
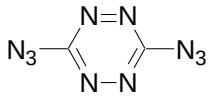
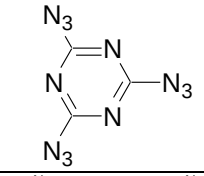
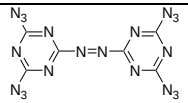
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
380	[99]		$C_5H_5N_{10}O_8$	-14.5	42.4	1.76			1.991	1.886	629	582.9	396.52	2.7469	9005	357	9554	435	8566	321	8834	8990	371	1.938	8780	320
482	[110]		$C_7H_7N_9O_{21}$	10.1	22.8	1.81			1.785	1.851	-1021	-519.9	-781.13	2.9306	9687	405	8675	353	8741	340	8702	8951	366	1.818	-	-

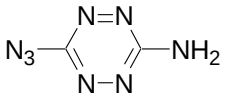
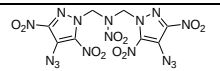
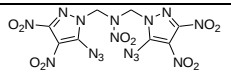
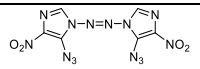
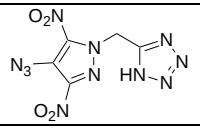
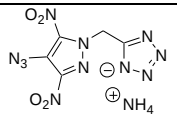
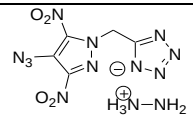
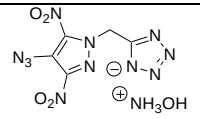
2.1.18 Azides

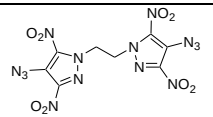
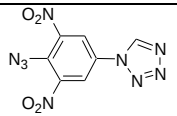
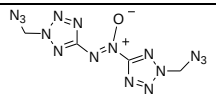
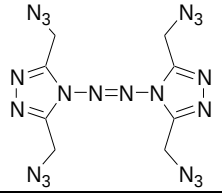
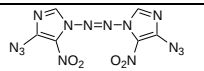
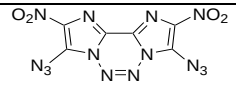
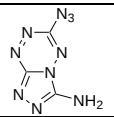
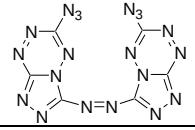
Table 29. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure (P_{C-J}), heat of formation and density for the selected azides at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

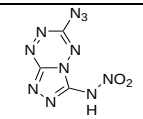
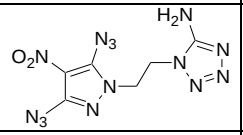
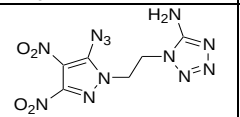
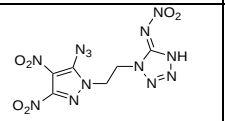
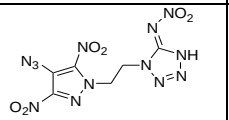
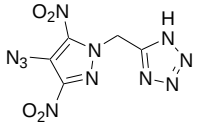
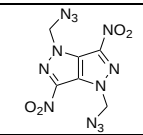
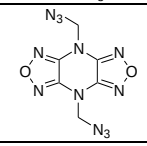
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
26	[35]		$C_9H_{14}N_6O_4$*	-124.3	31.1	1.21		1.226	1.443	1.280	-242	-65.3	-108.82	2.0063	5507	109	4203	-64	4912	81	5434	4828	28		5420	79
27	[35]		$C_{11}H_{18}$	-144.8	28.2	1.16		1.171	1,335	1.230	-296	-114.5	-150.10	1.8439	5088	89	3458	-133	4553	68	5124	4556	12	1.316	5292	72

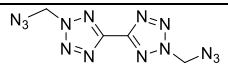
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
			N_6O_4*																								
28	[35]		$C_{13}H_{22}N_6O_4$*	-161.8	25.8	1.09		1.123	1.245	1.192	-349	-163.6	-191.38	1.6815	4648	68	2842	-191	4185	54	4852	4130	-34	1.251	5048	62
46	[24]		$C_4H_{10}N_4$	-182.2	49.1	0.933		1.140		1.109	277	279.1	239.44	2.1833	4940	63	-	-	4252	49	5168	4787	56	1.124	5730	73
47	[24] [40]		C_3N_{12}*	-47.0	82.3	1.73				1.563	914.6/1053	1412.8	1100.11	2.4829	8221	309	-	-	7403	237	8458	8027	273	-	7866	226
84	[51]		$C_7H_{10}N_6O_4$*	99.1	34.7	1.38		1.292		1.348	-176	174.0	-58.79	2.1687	6329	162	5120	22	5648	119	6039	5784	101	1.320	6192	118
85	[51]		$C_7H_8N_{12}O_4$	-69.1	51.8	1.49		1.410		1.437	542	936.5	528.06	2.3181	6999	208	7209	217	6660	174	7135	7001	200	1.423	6974	170
86	[51]		$C_9H_{12}N_{12}O_4$*	-109.4	44.2	1.38		1.323		1.318	466	838.2	443.69	1.9933	5977	148	5598	66	5880	129	6278	5933	114	1.321	6576	160
87	[51]		$C_8H_{10}N_{18}O_4$*	-86.5	54.5	1.51		1.413		1.382	1187	1600.6	1030.54	2.1427	6681	196	6978	195	6695	178	7122	6869	190	1.397	7147	181

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
88	[51]		$C_8H_{12}N_{12}O_4$*	-90.8	47.7	1.30		1.361		1.370	440	887.3	484.97	2.1557	6052	141	6340	135	5809	120	6350	6138	132	1.365	6252	119
89	[51]		$C_8H_{18}N_{18}O_4$*	-70.0	58.1	1.50		1.446		1.433	1160	1649.8	1071.82	2.3051	7004	209	7669	260	6816	183	7346	7209	217	1.440	7087	178
118	[57]		$C_4H_3N_7O_9$	-2.7	33.5	1.50		1.878		1.785	-271	-118.5	-77.53	2.5395	7515	233	8697	355	7385	215	7727	7831	268	1.831	7213	189
131	[61]		$C_4H_2N_{10}O_2$	-50.4	63.1	1.82		1.390	2.107	1.749	811.2	998.6	726.07	2.4808	8540	344	9212	403	8079	291	8608	8610	346	1.570	8746	315
145	[40]		C_2N_{10}	-39.0	85.4	1.62		1.280		1.566	1130	1206.1	867.21	2.5095	7887	271	-	-	8023	267	8987	8299	269	1.423	8306	265
146	[40]		C_3N_{12}*	-47.0	82.3	1.74				1.563	1053	1412.8	1100.11	2.4829	8257	313	-	-	7699	258	8680	8212	286	-	8308	269
147	[40]		C_6N_{20}*	-54.5	79.5	1.67				1.481	2171	2022.5	1747.35	2.5971	8282	301	-	-	7691	250.5	8582	8185	275.8	-	8306	264

		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
148	[40]		$C_2H_2N_8$*	-57.9	81.1	1.68				1.554	686.2	882.8	603.20	2.3548	7728	274	-	-	7664	250	8502	7965	262	-	8449	270
154	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1108.2	1220.5	884.26	2.7399	9265	386	9339	415	8619	333	8880	9026	378	1.716	8717	351
155	[65]		$C_8H_4N_{16}O_{10}$	-26.4	46.3	1.83		1.635	1.996	1.798	1118.7	1220.5	884.26	2.7399	9265	386	9339	415	8626	333	8886	9029	378	1.716	8724	352
172	[68]		$C_4H_2N_{14}O_4$	-43.1	58.7	1.77		1.470		1.712	1169.1	1379.9	960.45	2.6077	8687	342	9365	418	8056	285	8557	8666	348	1.591	8702	314
179	[69]		$C_5H_3N_{11}O_4$	-42.7	54.8	1.812		1.473	2.031	1.741	782.1	873.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
180	[69]		$C_5H_6N_{12}O_4$	-48.3	56.4	1.64	1.725			1.657	793.0	965.9		2.6199	8223	292	9028	386	7740	251	8150	8285	310	1.691	8167	258
181	[69]		$C_5H_7N_{13}O_4$	-48.5	58.1	1.72	1.712			1.665	937.1	928.7		2.4398	8077	299	9081	391	8137	286	8503	8450	325	1.688	8640	297
182	[69]		$C_5H_6N_{12}O_5$	-40.7	53.5	1.76	1.746			1.659	834.3	824.6		2.5598	8526	331	9210	403	8354	305	8652	8686	346	1.703	8747	322

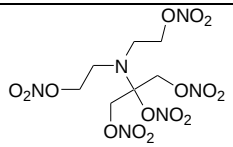
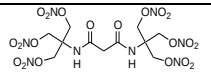
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188	[70]		$C_8H_4N_{14}O_8$	-37.7	46.2	1.76		1.543	1.983	1.750	1013.9	1140.3	827.49	2.6125	8661	338	8991	383	8170	292	8444	8566	338	1.647	8558	310
296	[92]		$C_7H_3N_9O_4$	-66.4	45.5	1.70		1.361	1.964	1.671	744.3	858.2	632.27	2.4116	7937	288	8027	293	7395	234	7677	7759	272	1.665	7734	262
300	[93]		$C_4H_4N_{16}O^*$	-49.3	76.7	1.59		1.400		1.597	682.3	1799.7		2.6759	8162	279	9067	390	6631	180	7745	7901	283	1.498	7228	177
317	[95]		$C_6H_8N_{26}^*$	-83.3	72.9	1.53		1.360		1.462	1940	2170.5	1601.87	2.4203	7361	231	-	-	6962	194	7657	7327	212	1.411	7690	209
326	[95]		$C_6H_2N_{14}O_4$	-43.1	58.7	1.77		1.470	2.107	1.712	1289.7	1379.9	960.45	2.6077	8687	342	9365	418	8175	293	8663	8722	351	1.591	8702	314
329	[96]		$C_8N_{14}O_4$	-38.5	59.0	1.89		1.470	2.171	1.835	1318.8	1437.6	1112.95	2.7615	9564	417	9561	436	8499	330	9014	9160	394	1.652	9256	367
355	[96]		$C_2H_2N_{10}$	-62.9	78.6	1.74		1.270		1.674	913.6	1034.0	801.73	2.4748	8237	312	-	-	7732	260	8524	8164	286	1.472	8581	285
356	[96]		C_8N_{20}	-54.5	79.5	1.77		1.370		1.674	2194.6	2335.0	1626.43	2.8903	9413	381	-	-	8028	283	8889	8777	332	1.522	8690	302

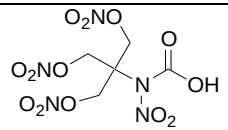
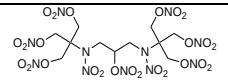
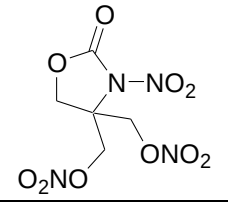
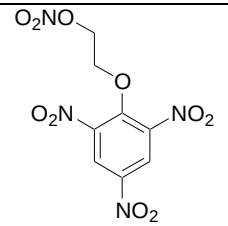
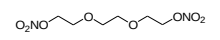
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
357	[96]		$C_3HN_{11}O_2$	-32.3	69.1	1.85		1.456	2.196	1.782	951.8	1056.3	810.65	2.5821	8921	371	10187	494	8591	333	9255	9238	399	1.619	9236	363
413	[99]		$C_6H_6N_{14}O_2$	-67.9	64.0	1.63		1.384	2.005	1.608	1057.8	1480.6	1023.36	2.4132	7695	264	8334	322	7286	221	7842	7789	269	1.496	7917	231
417	[99]		$C_6H_6N_{12}O_4$	-56.7	54.2	1.71		1.443	1.938	1.674	727.2	1090.9	714.80	2.4458	8057	297	8660	352	7657	252	8024	8100	300	1.558	8186	263
418	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.81		1.544	1.971	1.453	812.5	1082.5	669.99	2.4065	8309	329	9209	403	8336	309	8634	8622	347	1.498	8748	327
419	[99]		$C_6H_5N_{13}O_6$	-38.3	51.3	1.78		1.544	1.971	1.724	844.4	1082.5	669.99	2.4065	8204	318	9209	403	8270	301	8579	8566	341	1.634	8659	318
422	[99]		$C_5H_3N_{11}O_4$	-42.7	54.8	1.81		1.473	2.031	1.741	782.1	965.6	692.53	2.5069	8573	344	9200	402	8194	299	8579	8636	348	1.607	8707	321
469	[105]		$C_6H_4N_{12}O_4$	-51.9	54.5	1.71		1.443	2.006	1.699	946.3	1056.6	867.77	2.5531	8324	310	8868	371	7816	263	8209	8304	315	1.571	8292	276
470	[105]		$C_6H_4N_{12}O_2$	-69.5	60.9	1.68		1.357		1.652	1100.2	1180.7	835.63	2.4731	8017	289	8304	319	7484	238	7971	7944	282	1.504	8323	278

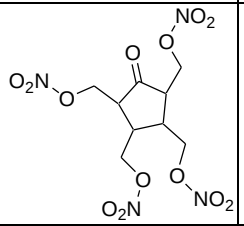
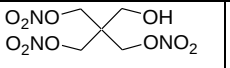
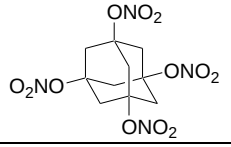
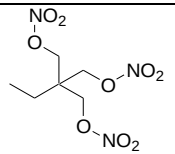
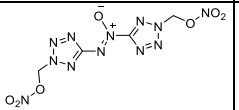
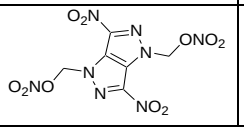
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
478	[107]		$C_4H_4N_{14}$	-64.5	79.0	1.62		1.311	2.147	1.551	1258	1596.1	1130.13	2.5885	8073	281	-	-	7444	230	8238	7918	256	1.670	8155	237

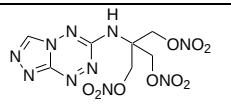
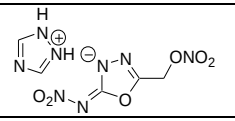
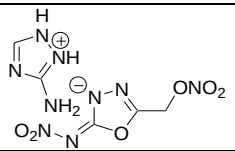
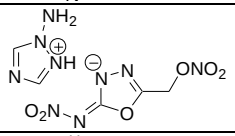
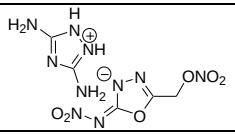
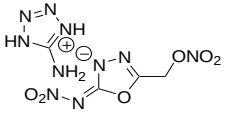
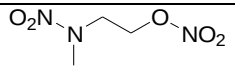
2.1.19 Nitrate esters

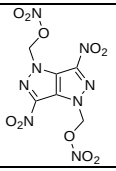
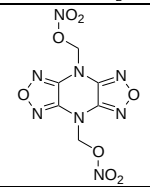
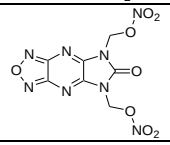
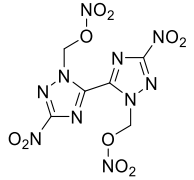
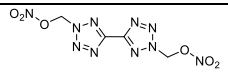
Table 30. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure (P_{C-J}), heat of formation and density for the selected nitrate esters at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
31	[36]		$C_7H_{12}N_6O_{15}$	-29.5	20.0	1.69			1.602	1.632	-530.6	-543.4	-843.93	2.6015	8368	309	8008	291	8393	301	8158	8232	300	1.617	8059	-
32	[36]		$C_{11}H_{16}N_8O_{20}$	-27.8	19.3	1.67			1.606	1.632	-1044.4	-1024.8	-1095.99	2.3383	7654	269	7548	248	7911	265	7726	7710	261	1.619	7891	-

		Compound		Ω_{coz} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
33	[36]		$C_6H_9N_5O_{13}$	-15.6	20.3	1.73			1.788	1.775	-614.8	-683.3	-869.55	2.6638	8307	333	8209	310	8495	312	8356	8434	318	1.781	8048	-
34	[36]		$C_{11}H_{17}N_{11}O_{25}$	-12.5	21.9	1.80			1.710	1.726	-637.8	-695.5	-1180.47	2.8060	9319	383	8384	326	8869	349	8622	8798	353	1.718	8550	328
35	[36]		$C_5H_6N_4O_{10}$	-17.0	19.9	1.84			1.775	1.780	-752.4	-318.5	-314.69	2.5237	8727	358	7679	260	8165	300	8008	8145	306	1.777	8266	313
41	[38]		$C_8H_6N_4O_{10}$	-45.3	17.6	1.723			1.684	1.707	-277.4	-277.3	-313.81	2.3017	7742	282	7290	224	7684	255	7476	7548	254	1.696	7470	237
44	[38]		$C_6H_{12}N_2O_8$	-66.6	11.7	1.344			1.273	1.452	-656.9	-605.8	-717.57	2.3007	6473	164	5848	90	6468	153	6354	6286	136	1.362	6498	143

		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
56	[38]		$C_8H_{12}N_4O_{13}$	-45.8	-8.3	1.55			1.486	1.622	-676.2	-698.4	-892.82	2.3261	7219	227	6786	177	7308	216	7108	7105	207	1.554	7518	203
60	[38]		$C_5H_9N_3O_{10}$	-26.6	15.5	1.54			1.622	1.642	-560.7	-629.2	-736.45	2.4892	7550	241	7540	248	7683	237	7484	7564	242	1.632	7777	253
77	[49]		$C_{10}H_{12}N_4O_{12}$	-58.9	14.7	1.659			1.534	1.705	-581	-446.9	-568.79	2.2121	7348	253	6556	156	7435	234	7121	7115	214	1.619	7282	229
119	[26]		$C_6H_{11}N_3O_9$	-50.5	15.6	1.500			1.445	1.527	-480	-451.2	-604.86	2.3680	7141	216	6815	180	7298	210	7074	7082	202	1.529	7097	196
299	[93]		$C_4H_4N_{12}O_7$	-14.5	50.6	1.68			1.937	1.756	345.4	804.3		2.8211	8866	333	10007	478	8035	275	8481	8847	362	1.847	8066	258
341	[96]		$C_6H_4N_8O_{10}$	-18.4	32.2	1.82			1.863	1.856	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.860	8674	331

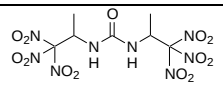
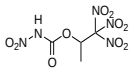
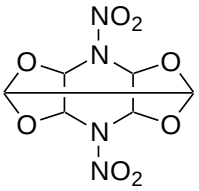
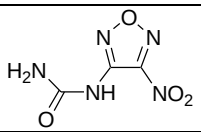
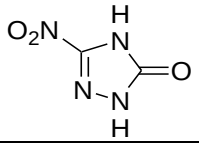
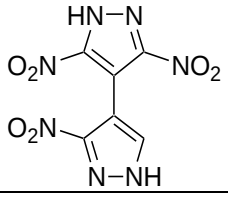
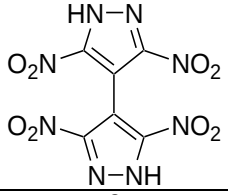
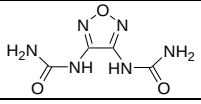
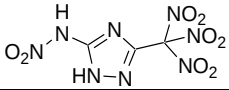
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350	[96]		$C_7H_8N_{10}O_9$	-38.3	37.2	1.79			1.799	1.700	246.0	251.2	14.83	2.5172	8527	337	8366	325	8261	302	8285	8360	321	1.749	9290	294
371	[98]		$C_5H_6N_8O_6$	-40.9	40.9	1.772	1.748			1.721	569.08	163.2		2.4049	8172	314	8237	312	7815	268	7988	8053	298	1.735	8630	319.8
372	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.780	1.733			1.717	600.04	221.1		2.1783	7614	285	8361	324	8584	325	8651	8302	311	1.725	8725	321.2
373	[98]		$C_5H_7N_9O_6$	-41.5	43.6	1.802	1.733			1.707	667.09	221.1		2.2784	7946	307	8518	339	8732	338	8781	8494	328	1.720	8877	337.1
374	[98]		$C_5H_8N_{10}O_6$	-42.1	46.0	1.814	1.719			1.733	508.38	279.1		2.0983	7511	286	8622	348	7910	279	8153	8049	304	1.726	8821	321.2
375	[98]		$C_4H_6N_{10}O_6$	-27.6	48.3	1.796	1.768			1.709	784.44	308.5		2.2796	7929	305	9166	399	8990	358	9162	8812	354	1.739	9142	365.7
460	[26]		$C_3H_7N_3O_5$	-43.6	25.5	1.53			1.364	1.547	-150.0	-125.7	-191.46	2.4444	7414	233	7345	229	7676	236	7536	7493	233	1.456	8050	259

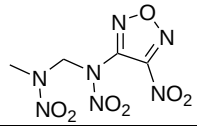
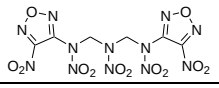
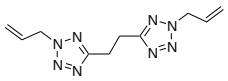
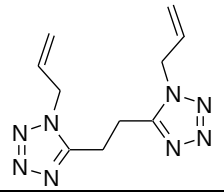
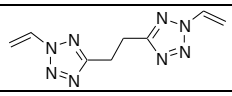
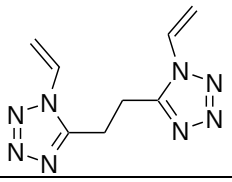
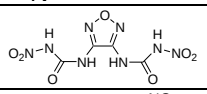
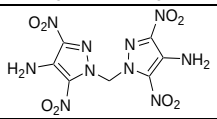
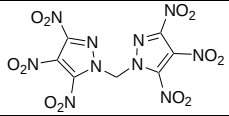
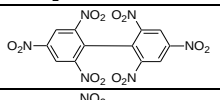
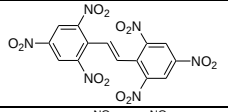
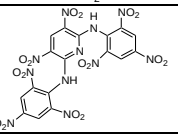
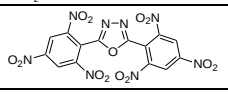
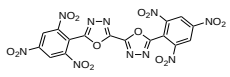
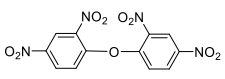
		Compound		Ω_{CO2} [%]	N%	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	ρ_0 [g/cm^3] azides	ρ_0 [g/cm^3] Keshavarz-other	ρ_0 [g/cm^3] Holden	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	ΔH_f^0(kJ/mol) Joback	I_{sp} (Nsg^{-1}) Keshavarz	VoD [m/s] keshavarz	P_{C-J} (kbar) Keshavarz	VoD [m/s] Rothstein and Petersen	P_{C-J} (kbar) Rothstein and Petersen	VoD [m/s] Kamlet & Jacobs	P_{C-J} (kbar) Kamlet & Jacobs	VoD [m/s] Stine	VoD [m/s] Rose Hybrid	P_{C-J} (kbar) Rose Hybrid	ρ_0 [g/cm^3] Rose Hybrid	VoD from reference [m/s]	P_{C-J} from reference [kbar]
465	[105]		$C_6H_4N_8O_{10}$	-18.4	32.2	1.82			1.863	1.884	133.7	61.3	-13.79	2.6983	9116	376	8788	364	8561	327	8593	8764	356	1.873	8674	331
466	[105]		$C_6H_4N_8O_8$	-30.4	35.4	1.84			1.874	1.853	276.6	185.4	-45.93	2.6183	8980	373	8546	341	8449	321	8493	8617	345	1.864	8669	334
467	[105]		$C_7H_4N_8O_8$	-39.0	34.1	1.79			1.870	1.840	-7.2	-3.4	-25.84	2.6909	8979	362	7994	290	7746	265	7860	8145	306	1.855	8057	273
468	[105]		$C_6H_4N_{10}O_{10}$	-17.0	37.2	1.83			1.908	1.839	113.6	179.5	97.25	2.7457	9281	387	9065	390	8460	321	8604	8852	366	1.873	8639	327
479	[107]		$C_4H_4N_{10}O_6$	-22.2	48.6	1.69			1.955	1.764	441	600.8	248.57	2.7337	8693	326	9054	389	8152	284	8496	8599	333	1.860	8377	286

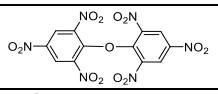
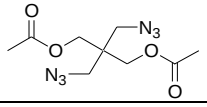
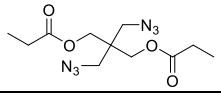
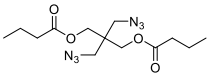
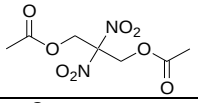
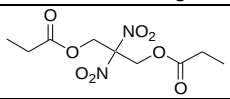
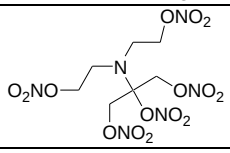
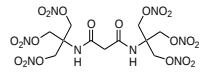
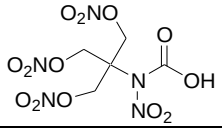
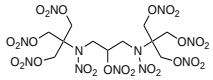
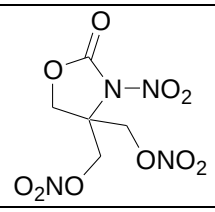
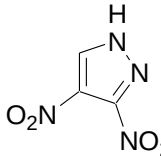
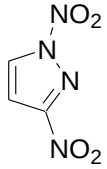
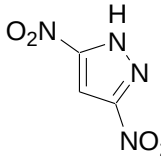
2.2 Comparison of the detonation velocity from RoseBoom2.1 to the EXPLO5 values

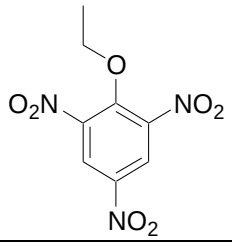
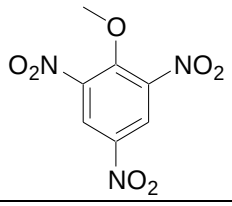
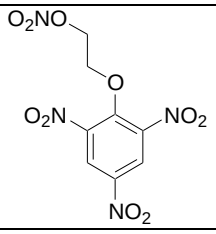
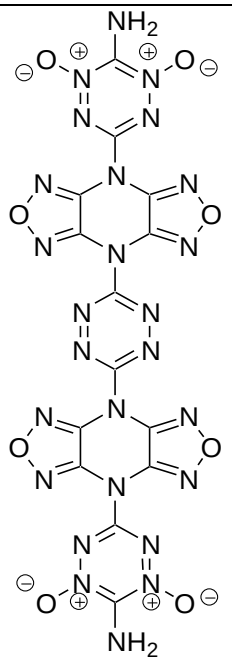
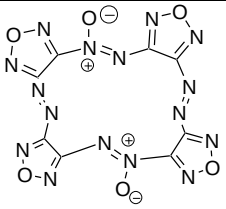
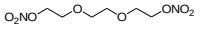
2.2.1 The detonation velocities of all compounds

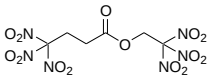
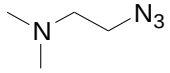
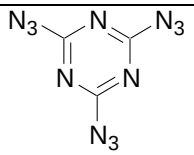
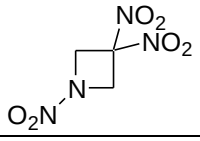
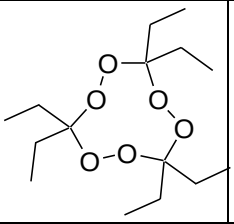
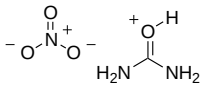
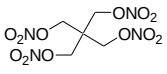
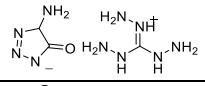
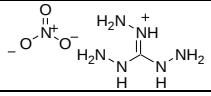
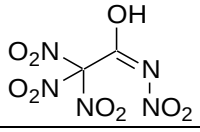
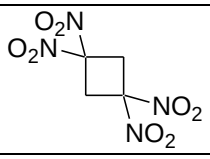
Table 31. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the all compounds.

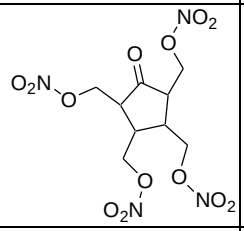
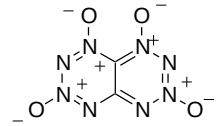
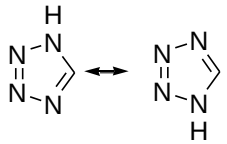
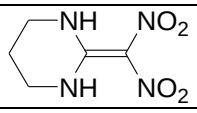
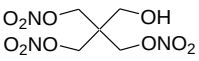
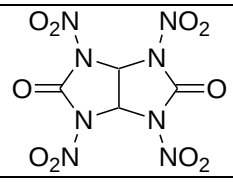
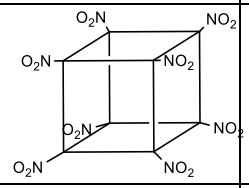
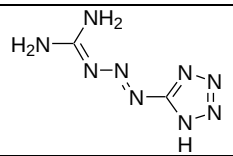
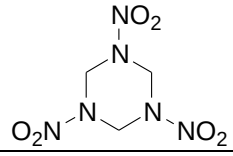
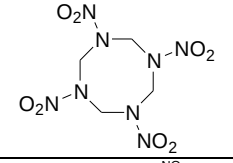
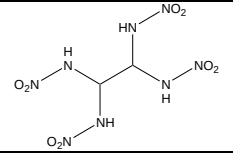
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
1	[22]		8263	-2.5	8400	-0.8	8547	0.9	8388	-1	8399	-0.8	8469
2	[22]		7777	1.2	8582	10.5	7953	3.4	8006	4.1	7912	2.9	7680
3	[23] [24]		8822	2.3	6896	-24.9	8139	-5.8	7832	-10	8092	-6.5	8615
4	[25]		7511	-3.3	8516	8.9	7751	-0.1	7979	2.8	7939	2.3	7759
5	[23] [26]		8327	-2.6	8753	2.4	8081	-5.7	8396	-1.8	8389	-1.8	8543
6	[27]		8228	-0.3	8365	1.3	8019	-3	7997	-3.2	8123	-1.6	8256
7	[27]		8394	-1.5	8908	4.4	8232	-3.5	8379	-1.7	8478	-0.5	8520
8	[25]		7547	-9.8	6885	-20.3	7281	-13.8	7590	-9.1	7326	-13.1	8283
9	[28]		8920	-3.7	9750	5.1	9397	1.6	9580	3.4	9409	1.7	9250

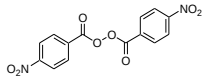
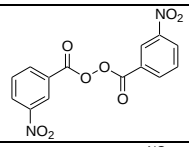
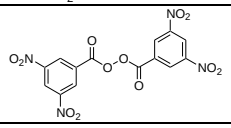
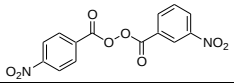
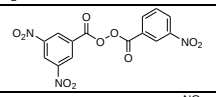
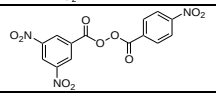
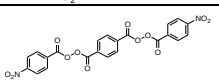
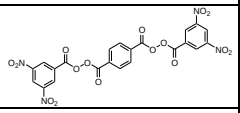
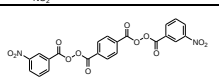
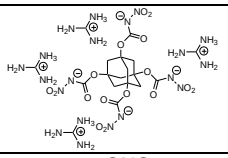
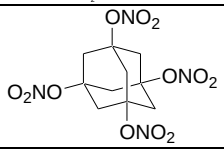
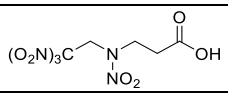
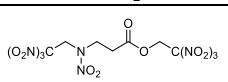
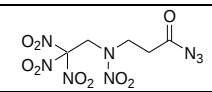
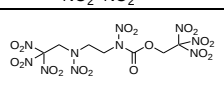
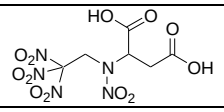
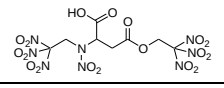
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
10	[29]		8433	-1.9	9184	6.4	8579	-0.2	8644	0.6	8710	1.3	8596
11	[29]		9912	5.8	9600	2.8	9248	-0.9	9364	0.3	9531	2.1	9334
12	[30]		5408	-13.7	-	-	4514	-36.2	5243	-17.3	5055	-21.6	6148
13	[30]		5408	-14	-	-	4535	-36	5257	-17.3	5067	-21.7	6167
14	[30]		6310	-12.7	-	-	5284	-34.5	5843	-21.7	5812	-22.3	7109
15	[30]		6310	-13	-	-	5296	-34.7	5852	-21.9	5819	-22.6	7132
16	[25]		7901	-9.9	8908	2.5	8487	-2.3	8671	-0.2	8492	-2.3	8685
17	[31]		8223	-1.3	8642	3.6	8016	-3.9	8132	-2.5	8253	-1	8332
18	[31]		9733	4.4	9201	-1.1	9029	-3	9094	-2.3	9264	-0.4	9304
19	[32] [26]		7609	1.4	7314	-2.5	7355	-2	7298	-2.8	7394	-1.4	7500
20	[32]		7369	-3.3	6830	-11.4	7276	-4.6	7116	-7	7148	-6.5	7612
21	[32]		7420	-4.5	7462	-4	7421	-4.5	7379	-5.1	7420	-4.5	7757
22	[32] [33]		8083	3	7350	-6.7	7543	-3.9	7478	-4.8	7614	-3	7840
23	[32]		8543	6	7377	-8.9	7547	-6.4	7486	-7.3	7738	-3.8	8030
24	[34]		7290	9.7	6277	-4.9	6827	3.6	6623	0.6	6754	2.5	6582

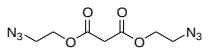
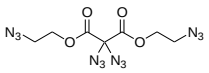
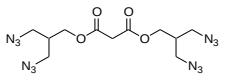
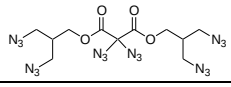
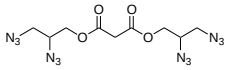
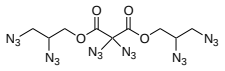
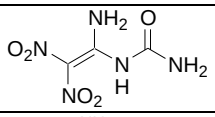
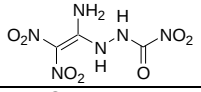
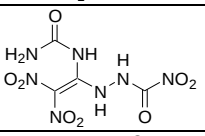
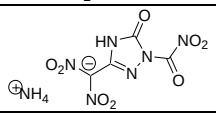
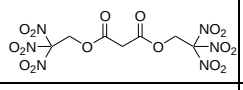
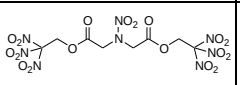
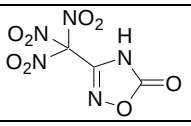
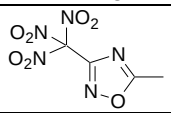
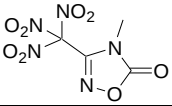
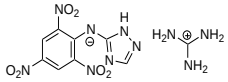
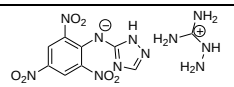
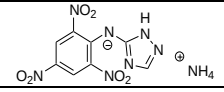
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
25	[34]		8201	6.9	7449	-2.5	7794	2.1	7617	-0.2	7765	1.7	7634
26	[35]		5507	1.6	4203	-29	4912	-10.3	5434	0.3	4828	-12.3	5420
27	[35]		5088	-4	3458	-53	4553	-16.2	5124	-3.3	4556	-16.2	5292
28	[35]		4648	-8.6	2842	-77.6	4185	-20.6	4852	-4	4130	-22.2	5048
29	[35]		6297	9.8	5396	-5.3	5796	1.9	5916	3.9	5851	2.9	5683
30	[35]		5652	9.6	4641	-10.1	5224	2.2	5435	6	5238	2.4	5111
31	[36]		8368	3.7	8008	-0.6	8393	4	8158	1.2	8232	2.1	8059
32	[36]		7654	-3.1	7548	-4.5	7911	0.3	7726	-2.1	7710	-2.3	7891
33	[36]		8307	3.1	8209	2	8495	5.3	8356	3.7	8434	4.6	8048
34	[36]		9319	8.3	8384	-2	8869	3.6	8622	0.8	8798	2.8	8550
35	[36]		8727	5.3	7679	-7.6	8165	-1.2	8008	-3.2	8145	-1.5	8266
36	[37]		8082	-4.3	8824	4.5	8257	-2	8336	-1.1	8375	-0.6	8426
37	[37]		8235	-2.7	8824	4.1	8295	-2	8378	-1	8433	-0.3	8459
38	[37]		8048	-2.9	8824	6.2	8113	-2	8215	-0.8	8300	0.3	8279

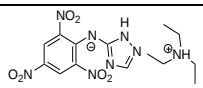
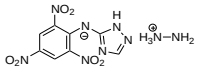
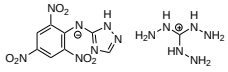
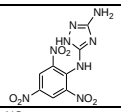
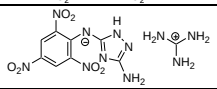
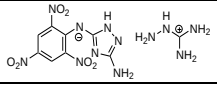
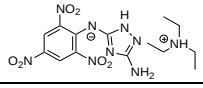
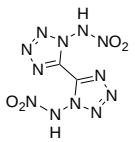
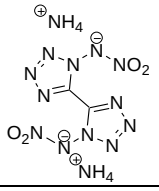
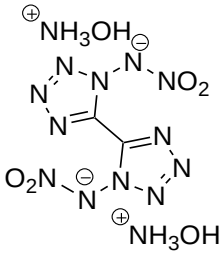
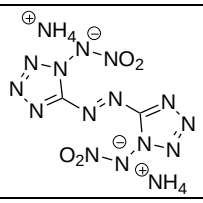
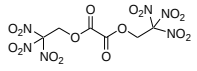
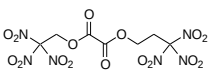
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
39	[26]		6845	4.4	6303	-3.8	6741	2.9	6598	0.8	6622	1.2	6545
40	[38]		7502	6.2	6800	-3.5	7263	3.1	7059	0.3	7156	1.7	7035
41	[38]		7742	3.5	7290	-2.5	7684	2.8	7476	0.1	7548	1	7470
42	[38]		10236	15	8854	1.7	8184	-6.3	8559	-1.6	8958	2.9	8700
43	[38] [39]		9368	0	9283	-0.9	8217	-14	8696	-7.7	8891	-5.4	9368
44	[38]		6473	-0.4	5848	-11.1	6468	-0.5	6354	-2.3	6286	-3.4	6498

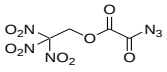
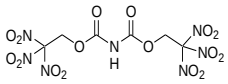
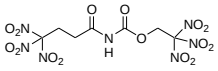
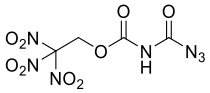
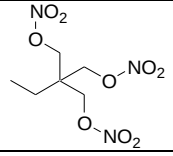
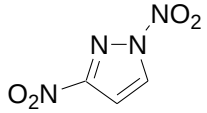
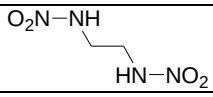
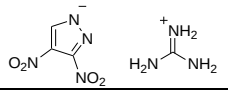
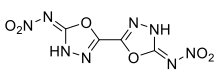
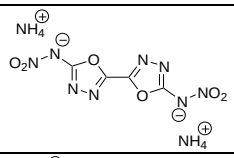
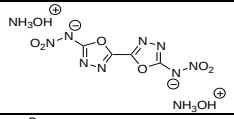
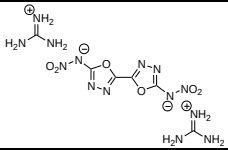
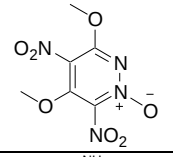
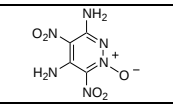
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
45	[38]		8852	2.7	8537	-0.9	8658	0.5	8534	-1	8645	0.3	8616
46	[24]		4940	-16	-	-	4252	-34.8	5168	-10.9	4787	-19.7	5730
47	[24] [40]		8221	4.3	-	-	7403	-6.3	8458	7	8027	2	7866
48	[41]		8718	-2.6	8676	-3.1	9047	1.1	8905	-0.5	8836	-1.3	8947
49	[42]		4600	-37.4	-	--	4462	-41.7	4599	-37.5	3594	-75.9	6322
50	[43]		7705	-3.3	8428	5.6	7218	-10.3	7777	-2.3	7782	-2.3	7958
51	[44]		8620	1.1	8077	-5.5	8652	1.5	8375	-1.8	8431	-1.1	8525
52	[45]		5928	-60.1	3623	-162	7715	-23	8102	-17.2	6342	-49.7	9492
53	[38]		6364	-39.7	8827	-0.7	7487	-18.8	8013	-11	7673	-15.9	8893
54	[38]		9325	19.5	8176	8.2	9370	19.9	9506	21.1	9094	17.5	7503
55	[38]		8730	1	8575	-0.8	8873	2.6	8696	0.6	8718	0.8	8646

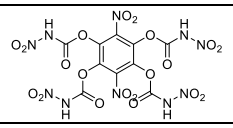
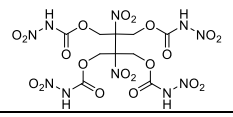
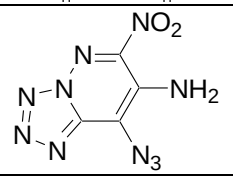
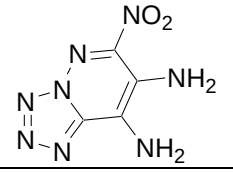
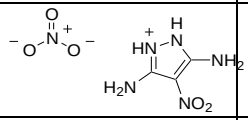
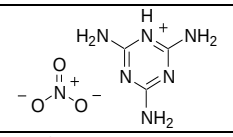
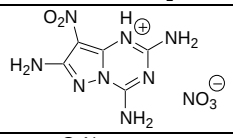
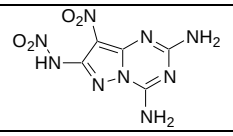
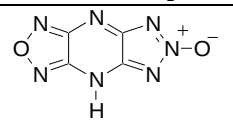
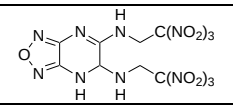
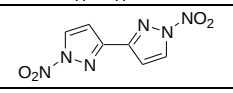
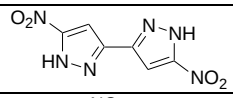
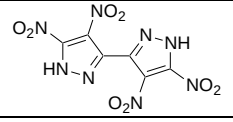
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
56	[38]		7219	-4.1	6786	-10.8	7308	-2.9	7108	-5.8	7105	-5.8	7518
57	[46]		9865	5.9	10734	13.5	8751	-6.1	9379	1	9682	4.1	9287
58	[38]		7165	-9.3	-	-	6781	-15.5	7710	-1.6	7219	-8.5	7831
59	[47]		6958	-13.6	6292	-25.7	7331	-7.8	7163	-10.4	6936	-14	7906
60	[38]		7550	-3	7540	-3.1	7683	-1.2	7484	-3.9	7564	-2.8	7777
61	[38]		10004	0.6	8856	-12.3	9548	-4.2	9617	-3.4	9506	-4.6	9946
62	[38]		9623	0.6	8928	-7.1	9469	-1	9443	-1.3	9366	-2.1	9562
63	[38]		7964	-22.2	-	-	7514	-29.5	8526	-14.1	8001	-21.6	9729
64	[26]		8237	-7.8	8940	0.6	8771	-1.3	8765	-1.3	8773	-1.2	8882
65	[38]		9184	-1.1	9042	-2.7	9149	-1.5	9077	-2.3	9113	-1.9	9286
66	[38]		8393	-4.4	9659	9.3	9636	9.1	9720	9.9	9352	6.3	8760

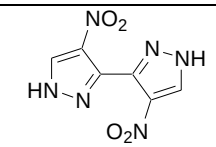
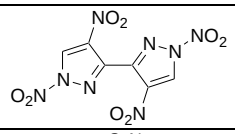
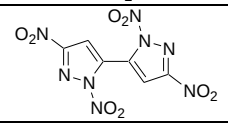
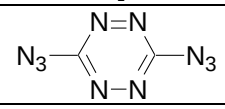
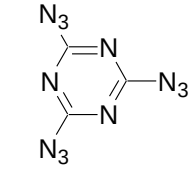
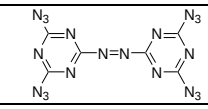
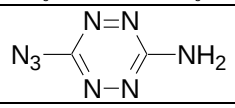
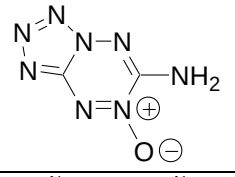
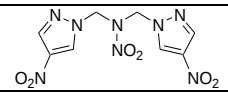
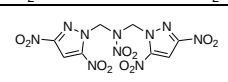
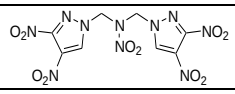
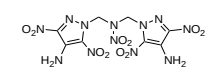
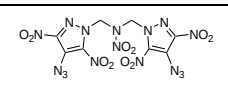
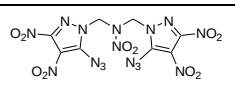
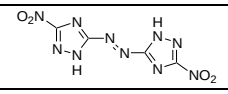
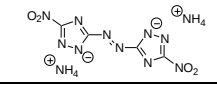
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
67	[48]		6354	3.5	4197	-46	5752	-6.6	5577	-9.9	5470	-12	6129
68	[48]		6354	3.5	4197	-46.1	5757	-6.5	5582	-9.8	5471	-12	6130
69	[48]		7183	1.3	5893	-20.3	6853	-3.4	6662	-6.4	6648	-6.6	7087
70	[48]		6517	1.9	4197	-52.4	5909	-8.2	5657	-13	5570	-14.8	6395
71	[48]		6863	1	5158	-31.8	6451	-5.3	6219	-9.3	6173	-10.1	6796
72	[48]		6835	1.1	5158	-31	6425	-5.2	6204	-8.9	6156	-9.8	6757
73	[48]		5310	-0.1	3642	-45.9	5179	-2.6	5189	-2.4	4830	-10	5315
74	[48]		5895	-1.9	4929	-21.9	5897	-1.9	5882	-2.1	5651	-6.3	6007
75	[48]		5288	0.1	3642	-45.1	5980	11.6	5910	10.6	5205	-1.5	5284
76	[49]		3538	-92.5	6836	0.4	6308	-7.9	6589	-3.3	5900	-15.4	6809
77	[49]		7348	0.9	6556	-11.1	7435	2.1	7121	-2.3	7115	-2.3	7282
78	[50]		8337	4.2	8093	1.3	8150	2	8041	0.7	8155	2.1	7987
79	[50]		8775	5.4	8653	4.1	8503	2.4	8429	1.5	8590	3.4	8300
80	[50]		8349	0.8	8707	4.8	8288	0	8363	0.9	8427	1.7	8285
81	[50]		9754	6.9	9008	-0.8	9212	1.4	9102	0.2	9269	2	9083
82	[50]		8130	7.6	7739	2.9	7671	2	7652	1.8	7798	3.6	7515
83	[50]		8475	8	8354	6.6	8014	2.7	8010	2.6	8213	5	7801

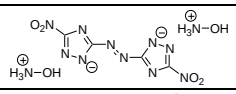
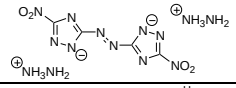
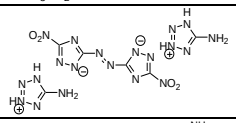
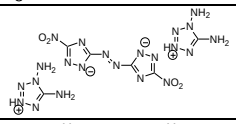
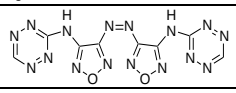
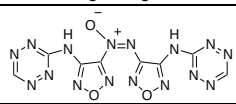
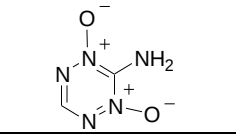
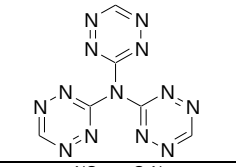
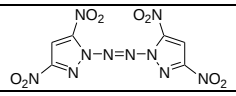
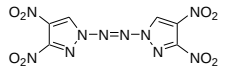
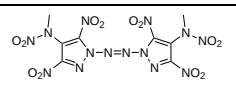
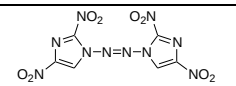
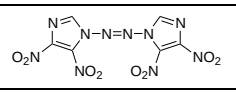
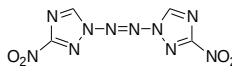
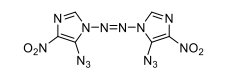
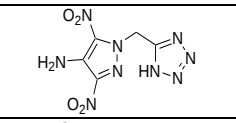
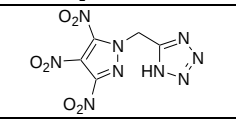
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
84	[51]		6329	2.2	5120	-20.9	5648	-9.6	6039	-2.5	5784	-7.1	6192
85	[51]		6999	0.4	7209	3.3	6660	-4.7	7135	2.3	7001	0.4	6974
86	[51]		5977	-10	5598	-17.5	5880	-11.8	6278	-4.7	5933	-10.8	6576
87	[51]		6681	-7	6978	-2.4	6695	-6.8	7122	-0.4	6869	-4	7147
88	[51]		6052	-3.3	6340	1.4	5809	-7.6	6350	1.5	6138	-1.9	6252
89	[51]		7004	-1.2	7669	7.6	6816	-4	7346	3.5	7209	1.7	7087
90	[52]		7922	-7.5	8184	-4.1	8067	-5.6	8183	-4.1	8089	-5.3	8516
91	[52]		7978	-7.5	9009	4.8	8512	-0.8	8634	0.7	8533	-0.5	8576
92	[52]		7394	4.2	8573	17.4	7818	9.4	8043	11.9	7957	11	7085
93	[52]		8306	-0.6	8573	2.5	8225	-1.6	8370	0.1	8369	0.1	8359
94	[53]		8790	6	8197	-0.8	8361	1.2	8262	0	8402	1.7	8263
95	[53]		8987	6.4	8354	-0.7	8506	1.1	8401	-0.2	8562	1.7	8415
96	[54]		9158	3.9	8870	0.8	9619	8.5	9658	8.9	9326	5.7	8798
97	[54]		8696	-1	8980	2.2	8686	-1.1	8655	-1.4	8754	-0.3	8779
98	[54]		8655	-1.7	8404	-4.8	8868	0.7	8835	0.4	8690	-1.3	8804
99	[55]		6680	-12.9	7482	-0.8	6988	-7.9	7140	-5.6	7072	-6.7	7543
100	[55]		6849	-21.2	7610	-9.1	7499	-10.7	7554	-9.9	7378	-12.5	8302
101	[55]		8064	-4.2	7486	-12.2	7729	-8.7	7651	-9.8	7732	-8.6	8400

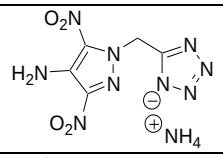
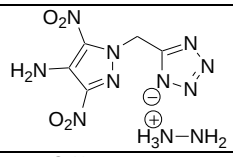
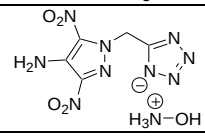
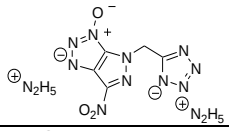
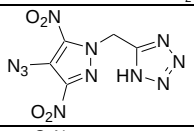
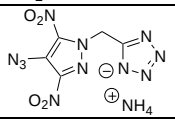
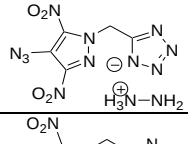
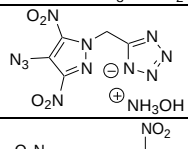
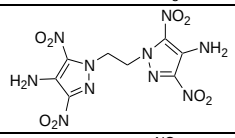
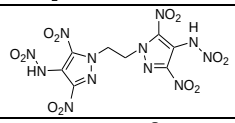
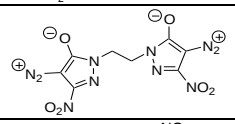
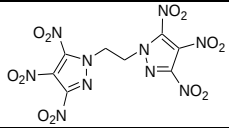
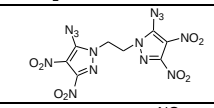
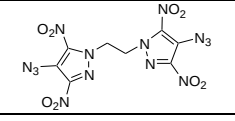
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
102	[55]		5734	-21	5337	-30	6036	-14.9	6033	-15	5785	-19.9	6937
103	[55]		6913	-10.5	7630	-0.1	7233	-5.6	7339	-4.1	7279	-5	7640
104	[55]		5911	-28.5	7837	3.1	7086	-7.2	7316	-3.8	7038	-7.9	7597
105	[55]		7579	-7.9	7635	-7.1	7540	-8.5	7554	-8.3	7577	-7.9	8178
106	[55]		6281	-14.8	7610	5.3	6734	-7.1	6998	-3	6906	-4.4	7209
107	[55]		6277	-22	7728	0.9	7051	-8.6	7264	-5.4	7080	-8.1	7657
108	[55]		5704	-19.2	5530	-23	5949	-14.3	6030	-12.8	5803	-17.2	6802
109	[56]		9428	-7.6	10855	6.6	9715	-4.4	10282	1.4	10070	-0.7	10142
110	[56]		9497	-0.2	10312	7.7	8173	-16.5	8900	-7	9220	-3.2	9519
111	[56]		9372	-5.5	10556	6.4	9399	-5.2	9778	-1.1	9776	-1.1	9885
112	[56]		9442	-0.3	10504	9.8	8778	-7.9	9361	-1.2	9521	0.5	9472
113	[57]		9317	11.2	8017	-3.2	8813	6.1	8724	5.1	8718	5.1	8275
114	[57]		8674	7	8197	1.5	8305	2.8	8220	1.8	8349	3.3	8071

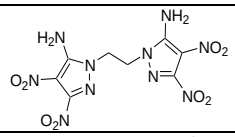
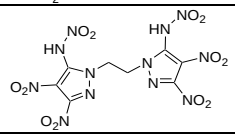
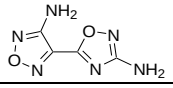
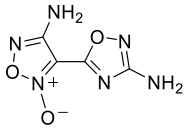
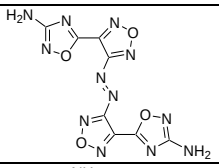
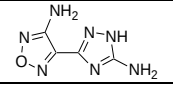
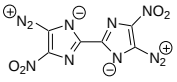
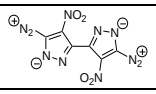
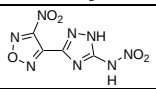
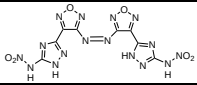
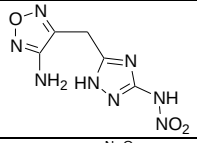
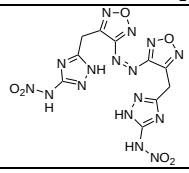
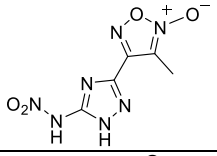
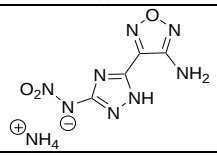
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
115	[57]		8641	4.8	8574	4.1	8353	1.6	8496	3.2	8516	3.4	8223
116	[57]		9413	7.8	8251	-5.1	8967	3.3	8867	2.2	8874	2.2	8675
117	[57]		8003	3.7	8303	7.2	7889	2.4	7905	2.6	7932	2.9	7703
118	[57]		7515	4	8697	17.1	7385	2.3	7727	6.7	7831	7.9	7213
119	[26]		7141	0.6	6815	-4.1	7298	2.8	7074	-0.3	7082	-0.2	7097
120	[37]		8235	-2.3	8824	4.5	8295	-1.6	8378	-0.6	8433	0.1	8426
121	[26]		7842	-6.3	8309	-0.3	8421	1	8380	0.5	8238	-1.2	8336
122	[37]		7013	-19.3	8283	-1	7290	-14.8	7560	-10.7	7536	-11.1	8369
123	[58]		8731	-7.5	8566	-9.6	8941	-5	9130	-2.8	8842	-6.2	9388
124	[58]		9685	4.7	8653	-6.6	8467	-9	8698	-6.1	8876	-3.9	9225
125	[58]		9231	0.5	8968	-2.4	8953	-2.6	9042	-1.6	9048	-1.5	9186
126	[58]		7315	-9.7	8386	4.3	7489	-7.2	7931	-1.2	7780	-3.2	8027
127	[59]		7362	1.8	7213	-0.2	7314	1.2	7240	0.2	7282	0.8	7227
128	[59]		8001	-6.1	8725	2.7	8266	-2.7	8335	-1.8	8332	-1.8	8486

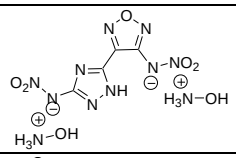
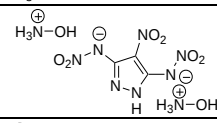
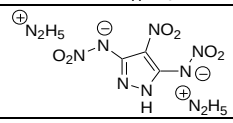
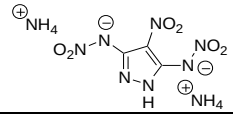
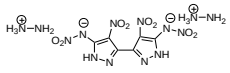
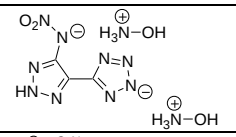
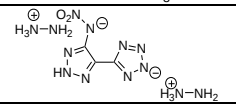
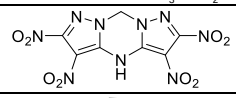
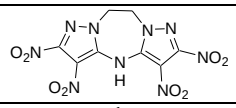
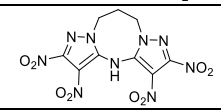
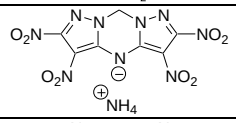
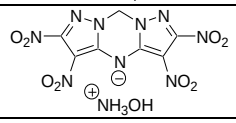
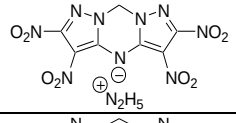
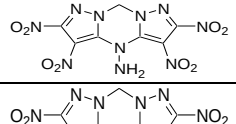
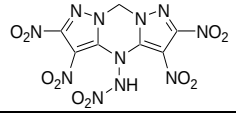
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
129	[60]		7701	0	8023	4	7629	-1	7806	1.3	7790	1.1	7702
130	[60]		8225	-0.9	7846	-5.8	8293	-0.1	8190	-1.3	8138	-2	8298
131	[61]		8540	-2.4	9212	5.1	8079	-8.3	8608	-1.6	8610	-1.6	8746
132	[61]		8064	-4.6	8179	-3.1	7630	-10.5	8025	-5.1	7974	-5.8	8434
133	[62]		7398	-13.8	8818	4.5	8174	-3	8290	-1.6	8170	-3.1	8420
134	[62]		6916	-7.8	8386	11.1	6763	-10.2	7406	-0.7	7368	-1.2	7455
135	[62]		7758	-8.2	8634	2.8	7776	-7.9	8011	-4.7	8045	-4.3	8391
136	[62]		8165	-6.7	8582	-1.5	8004	-8.9	8242	-5.7	8248	-5.6	8713
137	[63]		8467	-0.8	8748	2.5	7913	-7.8	8314	-2.6	8360	-2.1	8532
138	[63]		8005	-5	8907	5.6	8430	0.2	8483	0.9	8456	0.6	8409
139	[64]		8320	0.2	7503	-10.6	7718	-7.6	7728	-7.4	7817	-6.2	8301
140	[64]		7794	-3	7503	-7	7425	-8.1	7481	-7.3	7551	-6.3	8026
141	[64]		8464	-1.1	8908	4	8079	-5.9	8251	-3.7	8426	-1.5	8556

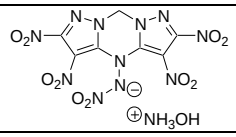
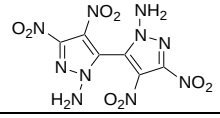
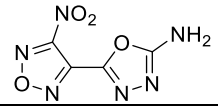
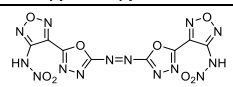
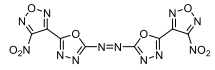
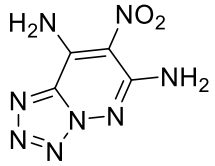
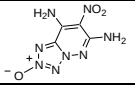
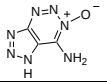
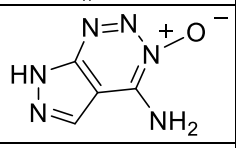
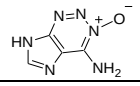
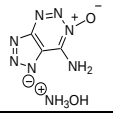
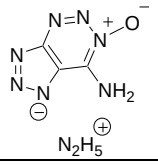
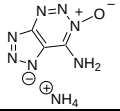
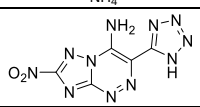
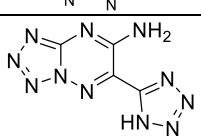
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
142	[64]		7858	-3.3	7503	-8.2	7469	-8.7	7512	-8.1	7586	-7	8120
143	[64]		9037	1.9	8908	0.4	8523	-4.1	8631	-2.8	8775	-1.1	8869
144	[64]		9057	1.4	8908	-0.2	8578	-4.1	8680	-2.8	8806	-1.4	8926
145	[40]		7887	-5.3	-	-	8023	-3.5	8987	7.6	8299	-0.1	8306
146	[40]		8257	-0.6	-	-	7699	-7.9	8680	4.3	8212	-1.2	8308
147	[40]		8282	-0.3	-	-	7691	-8	8582	3.2	8185	-1.5	8306
148	[40]		7728	-9.3	-	-	7664	-10.2	8502	0.6	7965	-6.1	8449
149	[40]		8885	-5	9359	0.4	8550	-9.1	9206	-1.3	9000	-3.6	9326
150	[65]		7814	-0.7	7486	-5.1	7429	-5.9	7445	-5.7	7544	-4.3	7867
151	[65]		8680	4.9	8583	3.8	8234	-0.3	8273	0.2	8442	2.2	8258
152	[65]		8680	4.8	8583	3.7	8242	-0.3	8280	0.2	8446	2.1	8265
153	[65]		8549	-1.1	8753	1.3	8555	-1	8575	-0.7	8608	-0.4	8639
154	[65]		9265	5.9	9339	6.7	8619	-1.1	8880	1.8	9026	3.4	8717
155	[65]		9265	5.8	9339	6.6	8626	-1.1	8886	1.8	9029	3.4	8724
156	[66]		8702	-2.9	9602	6.8	8421	-6.3	8845	-1.2	8892	-0.7	8952
157	[66]		8851	2.1	9200	5.8	7984	-8.5	8405	-3.1	8610	-0.6	8665

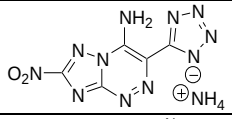
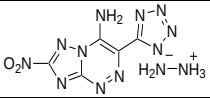
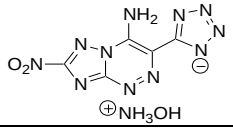
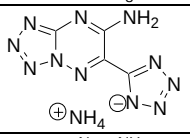
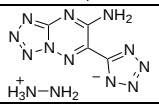
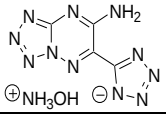
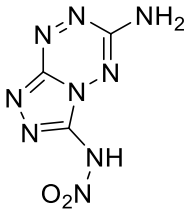
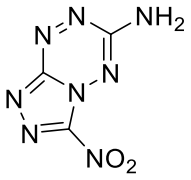
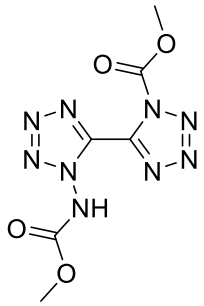
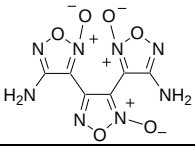
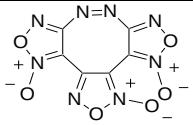
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
158	[66]		8767	-1	9558	7.3	8402	-5.4	8715	-1.6	8860	0	8857
159	[66]		8065	-13	9287	1.9	8359	-9	8749	-4.2	8615	-5.8	9114
160	[66]		7995	-2.9	9525	13.6	7862	-4.6	8448	2.6	8458	2.7	8226
161	[66]		8381	-3.8	9565	9	7826	-11.2	8494	-2.4	8566	-1.6	8702
162	[67]		8078	0	8373	3.6	7457	-8.3	7996	-1	7976	-1.2	8075
163	[67]		8471	0.8	8644	2.8	7752	-8.4	8223	-2.2	8272	-1.6	8401
164	[67]		8050	-7.3	8799	1.8	8145	-6.1	8466	-2.1	8365	-3.3	8640
165	[67]		8433	1.3	-	-	7415	-12.2	8053	-3.3	7967	-4.5	8322
166	[68]**4**		9010	7.9	9202	9.8	8559	3	8773	5.4	8886	6.6	8298
167	[68]**5**		9048	0.9	9202	2.6	8592	-4.3	8801	-1.9	8911	-0.6	8964
168	[68]**6**		9212	4.1	9200	4	8654	-2.1	8790	-0.5	8964	1.5	8834
169	[68]**7**		9165	2	9202	2.4	8600	-4.4	8799	-2	8942	-0.4	8979
170	[68]**8**		9087	1.7	9202	2.9	8554	-4.4	8762	-1.9	8901	-0.3	8932
171	[68]		8939	1.3	9602	8.1	8373	-5.4	8799	-0.3	8928	1.2	8825
172	[68]		8687	-0.2	9365	7.1	8056	-8	8557	-1.7	8666	-0.4	8702
173	[69]		8234	-3.8	8582	0.4	7944	-7.6	8188	-4.4	8237	-3.8	8548
174	[69]		8843	0	9144	3.3	8488	-4.2	8690	-1.8	8791	-0.6	8845

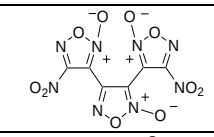
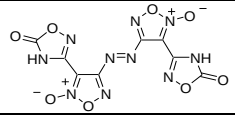
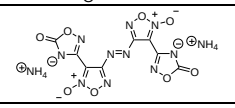
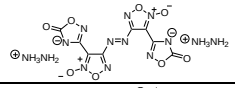
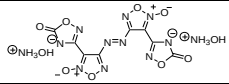
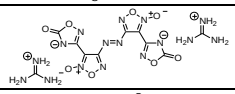
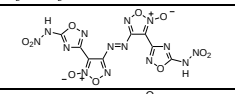
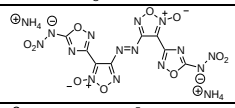
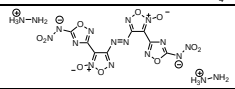
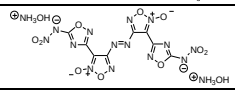
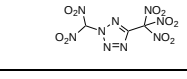
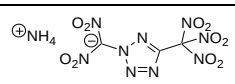
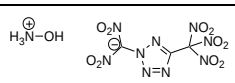
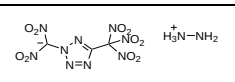
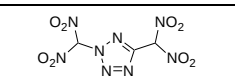
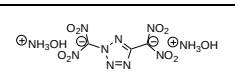
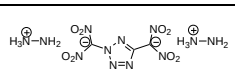
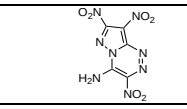
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
175	[69]		7998	-1.9	8433	3.3	7614	-7.1	7900	-3.2	7986	-2.1	8153
176	[69]		7458	-10.8	8521	3	7696	-7.4	7992	-3.4	7917	-4.4	8264
177	[69]		8096	-6.1	8696	1.2	8118	-5.8	8293	-3.6	8301	-3.5	8592
178	[69]		7755	-13.2	8342	-5.2	7914	-10.9	8269	-6.2	8070	-8.8	8778
179	[69]		8573	-1.6	9200	5.4	8194	-6.3	8579	-1.5	8636	-0.8	8707
180	[69]		8223	0.7	9028	9.5	7740	-5.5	8150	-0.2	8285	1.4	8167
181	[69]		8077	-7	9081	4.9	8137	-6.2	8503	-1.6	8450	-2.2	8640
182	[69]		8526	-2.6	9210	5	8354	-4.7	8652	-1.1	8686	-0.7	8747
183	[70]		7903	-3.6	8238	0.6	7815	-4.8	7871	-4	7957	-2.9	8189
184	[70]		8711	-0.5	9000	2.7	8588	-1.9	8650	-1.2	8737	-0.2	8753
185	[70]		8072	3.3	8180	4.6	7352	-6.1	7599	-2.7	7801	0	7803
186	[70]		9139	4.2	8852	1.1	8551	-2.4	8588	-2	8782	0.3	8759
187	[70]		8737	-0.7	8991	2.2	8398	-4.8	8651	-1.7	8694	-1.2	8797
188	[70]		8661	1.2	8991	4.8	8170	-4.7	8444	-1.4	8566	0.1	8558

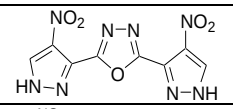
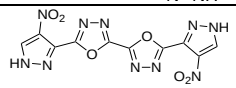
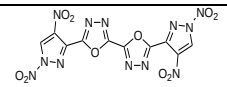
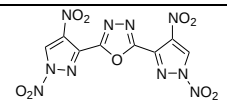
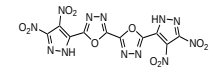
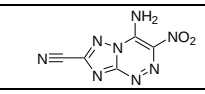
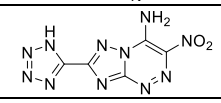
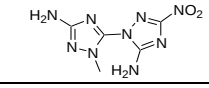
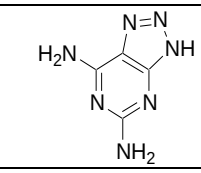
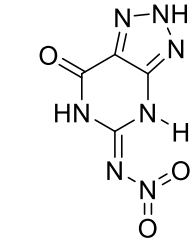
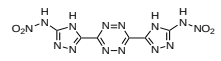
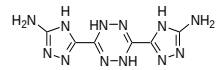
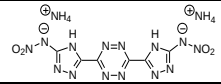
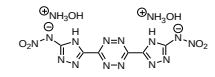
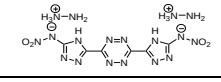
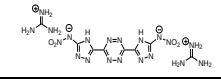
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
189	[70]		7836	-3.7	8238	1.3	7772	-4.6	7839	-3.7	7921	-2.6	8127
190	[70]		8675	-0.4	9000	3.2	8546	-1.9	8615	-1.1	8709	0	8710
191	[71]		7542	1.1	7458	0	6820	-9.4	7227	-3.2	7262	-2.7	7459
192	[71]		8004	-2.4	8085	-1.3	7576	-8.1	7787	-5.2	7863	-4.2	8193
193	[71]		7976	5.4	8192	7.9	6964	-8.4	7405	-1.9	7634	1.1	7547
194	[71]		7362	-5.9	5873	-32.8	6698	-16.4	7229	-7.9	6790	-14.8	7798
195	[72]		8681	0.3	8964	3.5	7927	-9.2	8344	-3.7	8479	-2.1	8653
196	[72]		8754	-2.2	8964	0.2	8189	-9.2	8580	-4.2	8622	-3.7	8943
197	[73]		8578	-5.2	9389	3.9	8648	-4.4	8902	-1.4	8879	-1.6	9025
198	[73]		8709	-3	9045	0.8	8392	-6.9	8719	-2.9	8716	-2.9	8973
199	[73]		7361	-9.8	7834	-3.1	7456	-8.4	7699	-4.9	7588	-6.5	8079
200	[73]		7700	-5.5	8314	2.3	7607	-6.8	7890	-3	7878	-3.1	8125
201	[73]		7810	-5.5	8098	-1.7	7873	-4.6	7986	-3.1	7942	-3.7	8236
202	[73]		7787	-4.4	8386	3.1	7494	-8.5	7872	-3.3	7885	-3.1	8130

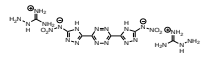
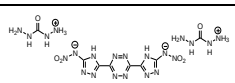
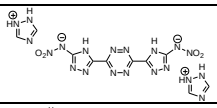
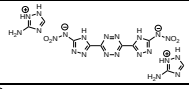
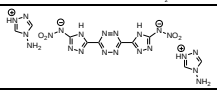
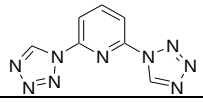
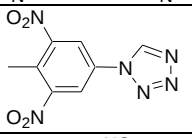
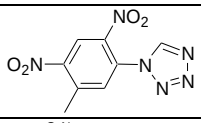
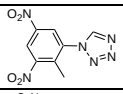
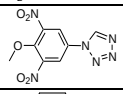
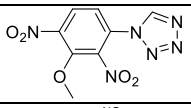
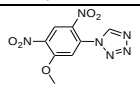
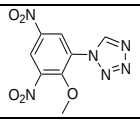
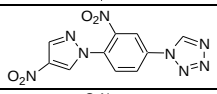
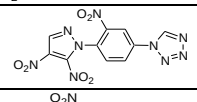
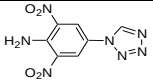
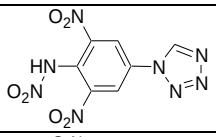
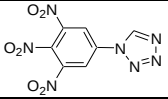
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
203	[73]		8032	-13.7	9478	3.6	8286	-10.2	8505	-7.4	8575	-6.5	9135
204	[74]		8603	-9.2	9719	3.3	9368	-0.3	9370	-0.3	9265	-1.4	9394
205	[74]		7847	-22.1	9570	-0.1	9061	-5.7	9198	-4.2	8919	-7.4	9581
206	[74]		8569	-3.2	9451	6.4	8479	-4.3	8666	-2	8791	-0.6	8842
207	[74]		7709	-18.3	9139	0.2	8654	-5.4	8765	-4	8567	-6.4	9118
208	[74]		8414	-10.3	9342	0.6	8591	-8	8900	-4.3	8812	-5.3	9282
209	[74]		7429	-21.4	8285	-8.9	8006	-12.7	8524	-5.8	7986	-13	9022
210	[75]		8785	-0.1	8664	-1.5	8400	-4.7	8475	-3.7	8562	-2.7	8792
211	[75]		8232	-0.3	8240	-0.2	7908	-4.4	7964	-3.7	8086	-2.1	8257
212	[75]		7885	-2.1	7847	-2.6	7671	-5	7680	-4.8	7771	-3.6	8051
213	[75]		8815	3.4	8642	1.4	8218	-3.7	8296	-2.7	8493	-0.3	8518
214	[75]		8802	-1	8759	-1.5	8549	-4	8572	-3.7	8670	-2.6	8893
215	[75]		8373	-3.8	8732	0.5	8384	-3.6	8460	-2.7	8487	-2.4	8690
216	[75]		8460	1.2	8758	4.6	8035	-4	8201	-1.9	8364	0.1	8356
217	[75]		9295	0.7	9127	-1.1	8890	-3.8	8989	-2.6	9075	-1.7	9226

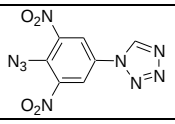
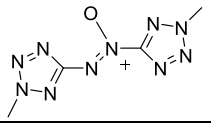
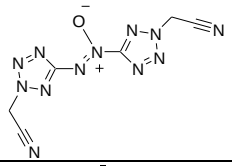
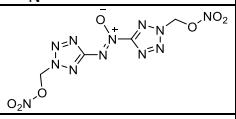
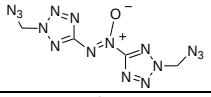
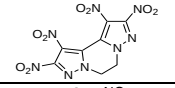
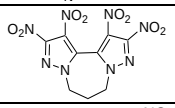
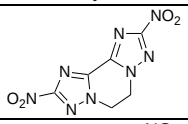
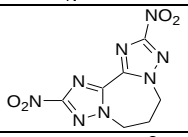
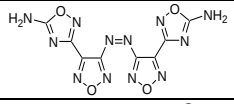
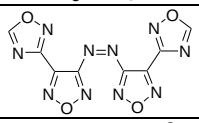
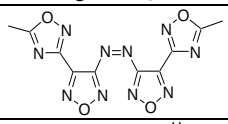
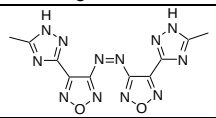
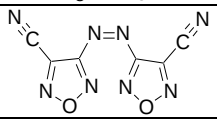
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
218	[75]		9185	1.6	9183	1.6	8894	-1.6	8960	-0.8	9056	0.2	9034
219	[76]		8285	-2.6	9080	6.3	8263	-2.9	8449	-0.7	8519	0.2	8504
220	[77]		8240	1.7	8781	7.7	7724	-4.9	7991	-1.4	8184	1	8102
221	[77]		8945	6	8660	2.9	7940	-5.9	8295	-1.4	8460	0.6	8409
222	[77]		9598	8.3	8954	1.7	8170	-7.7	8475	-3.8	8683	-1.3	8800
223	[78]		8297	-7.3	8179	-8.8	7731	-15.1	8115	-9.7	8080	-10.1	8899
224	[78]		8464	-6.6	8669	-4.1	8281	-8.9	8530	-5.8	8486	-6.3	9021
225	[79]		8151	-7.9	7641	-15.1	7868	-11.7	8330	-5.5	7998	-9.9	8792
226	[79]		7744	-6.8	5901	-40.2	7155	-15.6	7467	-10.8	7067	-17	8271
227	[79]		7650	-4.7	5901	-35.7	6943	-15.3	7309	-9.6	6951	-15.2	8008
228	[79]		8141	-5.7	8155	-5.5	7686	-12	8136	-5.8	8030	-7.2	8607
229	[79]		7726	-21.5	6237	-50.5	7594	-23.6	8128	-15.5	7421	-26.5	9385
230	[79]		8182	-6.9	6295	-38.9	7622	-14.7	8093	-8	7548	-15.8	8744
231	[80]		8711	-3.4	8709	-3.5	7792	-15.6	8300	-8.6	8378	-7.5	9010
232	[80]		8415	0.6	-	-	7446	-12.4	8195	-2.1	8019	-4.3	8367

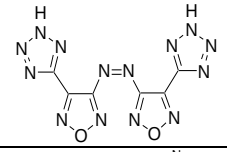
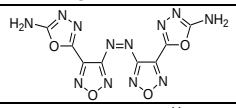
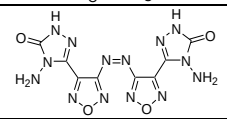
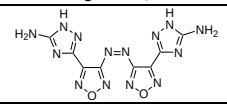
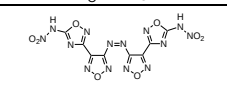
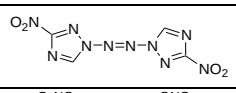
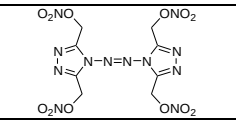
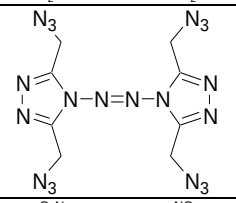
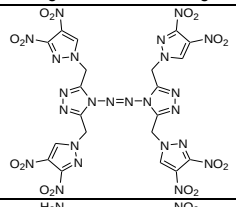
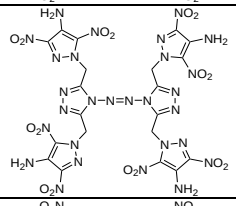
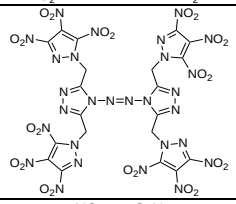
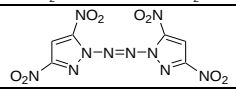
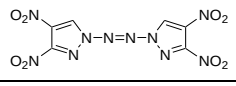
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
233	[80]		8786	-0.1	8292	-6	7565	-16.2	8091	-8.7	8184	-7.4	8793
234	[80]		8466	-5.7	8309	-7.7	7932	-12.8	8403	-6.5	8278	-8.1	8950
235	[80]		8804	-4.7	8761	-5.2	8064	-14.3	8457	-9	8522	-8.2	9220
236	[80]		8448	1.6	-	-	7117	-16.8	7909	-5.1	7825	-6.2	8313
237	[80]		8055	-7.7	-	-	7432	-16.8	8161	-6.3	7883	-10.1	8679
238	[80]		8392	-2.7	7414	-16.2	7576	-13.8	8242	-4.6	6221	-38.5	8618
239	[81]		8293	-5.7	9288	5.7	8175	-7.2	8694	-0.8	8612	-1.8	8763
240	[81]		8647	-3.5	9344	4.2	8374	-6.9	8846	-1.2	8803	-1.7	8953
241	[82]		7630	3	7063	-4.8	7122	-3.9	7409	0.1	7306	-1.3	7403
242	[83]		8432	-0.6	8485	0.1	8145	-4.1	8248	-2.8	8328	-1.8	8480
243	[83]		9412	-0.1	8830	-6.6	8716	-8	8936	-5.4	8974	-4.9	9417

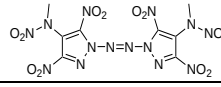
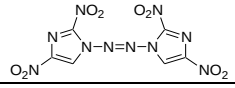
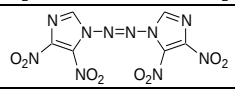
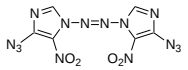
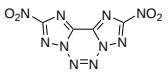
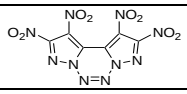
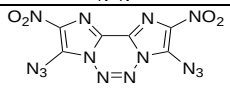
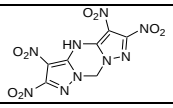
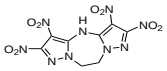
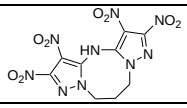
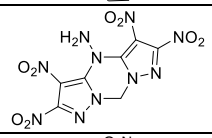
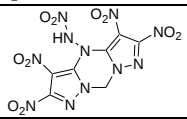
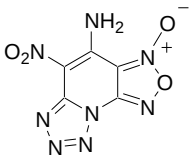
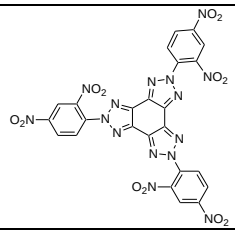
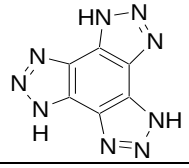
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
244	[83]		9932	4.3	9213	-3.1	9106	-4.4	9228	-3	9370	-1.4	9503
245	[84]		9207	3.4	7922	-12.2	8368	-6.3	8485	-4.8	8496	-4.6	8891
246	[84]		8798	6.4	7946	-3.6	7647	-7.7	7647	-7.7	8058	-2.2	8234
247	[84]		8151	-3.7	8700	2.8	8099	-4.4	8255	-2.4	8301	-1.8	8453
248	[84]		8787	3.9	8206	-2.9	8234	-2.6	8326	-1.4	8388	-0.7	8445
249	[84]		7196	-13.3	7892	-3.3	6871	-18.6	7293	-11.8	7313	-11.4	8150
250	[84]		9771	2.7	9027	-5.3	9028	-5.3	9235	-2.9	9265	-2.6	9505
251	[84]		9261	9.8	8997	7.1	8134	-2.7	8386	0.3	8694	3.9	8357
252	[84]		8701	-1.8	9115	2.8	8451	-4.8	8677	-2.1	8736	-1.4	8860
253	[84]		9224	4.1	9137	3.2	8717	-1.5	8895	0.6	8993	1.6	8846
254	[85]		9651	11.8	9252	8	9432	9.8	9684	12.1	9505	10.5	8511
255	[85]		9317	7.5	9678	11	9109	5.4	9332	7.7	9359	7.9	8617
256	[85]		9683	6.5	9450	4.2	9729	6.9	9873	8.3	9762	7.3	9054
257	[85]		8926	0.1	9881	9.7	8889	-0.3	9166	2.7	9216	3.2	8920
258	[85]		9515	4.1	9750	6.4	9393	2.9	9587	4.8	9561	4.6	9123
259	[85]		9214	-4.1	10057	4.6	9558	-0.3	9604	0.1	9608	0.2	9590
260	[85]		8272	-11.6	9998	7.7	9167	-0.7	9329	1.1	9192	-0.4	9230
261	[86]		8935	2.2	9062	3.6	8479	-3	8657	-0.9	8783	0.5	8737

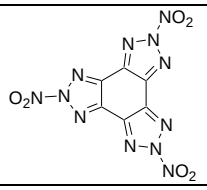
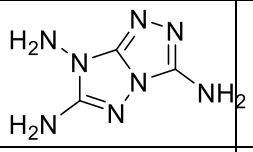
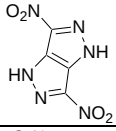
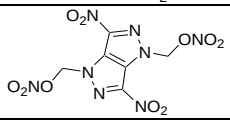
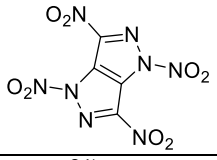
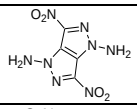
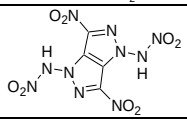
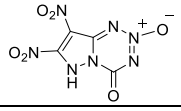
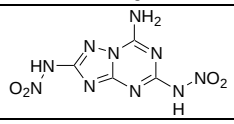
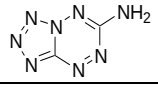
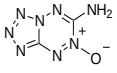
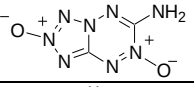
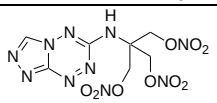
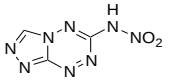
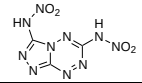
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
262	[87]		7987	-1.4	7264	-11.5	7508	-7.9	7594	-6.6	7588	-6.7	8099
263	[87]		8243	2.3	7098	-13.5	7431	-8.4	7553	-6.6	7581	-6.2	8054
264	[87]		9423	6	8102	-9.3	7499	-18.1	7771	-13.9	8199	-8	8855
265	[87]		9245	5.2	8434	-3.9	8552	-2.5	8676	-1	8727	-0.4	8766
266	[87]		9037	3.6	8102	-7.5	7614	-14.4	7859	-10.8	8153	-6.8	8710
267	[88]		7990	2.8	8200	5.3	7186	-8	7644	-1.6	7607	-2.1	7763
268	[88]		8517	2.4	8709	4.6	7635	-8.9	8169	-1.8	8258	-0.7	8312
269	[89]		8003	6	7265	-3.5	7374	-2	7715	2.5	7589	0.9	7520
270	[90]		7121	-4.3	-	-	6163	-20.5	6875	-8	6720	-10.5	7426
271	[90]		8311	-6.4	8228	-7.5	7952	-11.2	8235	-7.4	8182	-8.1	8845
272	[91]		8390	-8.5	9171	0.8	8660	-5.1	9027	-0.8	8812	-3.3	9100
273	[91]		6734	-32.8	-	-	7645	-17	8043	-11.2	7474	-19.7	8943
274	[91]		8671	-2.6	8897	0	8145	-9.2	8512	-4.5	8556	-4	8898
275	[91]		8430	-9.9	9244	-0.2	8908	-4	9142	-1.4	8931	-3.8	9267
276	[91]		7702	-19.6	8989	-2.5	8412	-9.5	8765	-5.1	8467	-8.8	9214
277	[91]		7072	-27	8564	-4.8	7848	-14.4	8260	-8.7	7936	-13.1	8978

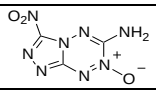
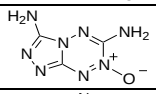
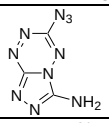
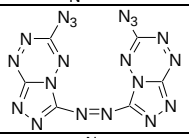
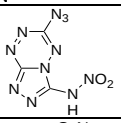
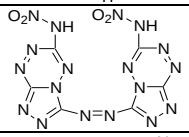
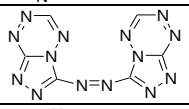
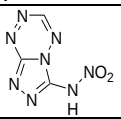
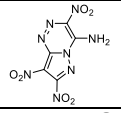
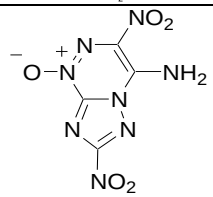
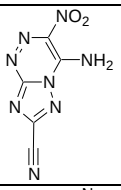
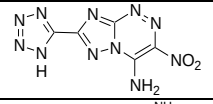
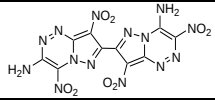
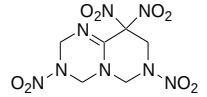
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
278	[91]		6517	-37.5	8660	-3.5	8032	-11.6	8420	-6.4	7907	-13.4	8963
279	[91]		6805	-31.9	9033	0.6	8350	-7.5	8654	-3.7	8210	-9.4	8978
280	[91]		8067	-10.6	8375	-6.6	8002	-11.5	8330	-7.1	8194	-8.9	8925
281	[91]		7606	-18	8479	-5.9	8122	-10.5	8461	-6.1	8167	-9.9	8976
282	[91]		8175	-9.7	8479	-5.7	7934	-13	8309	-7.9	8224	-9	8966
283	[92]		7504	5.1	-	-	6188	-15.1	6707	-6.2	6800	-4.7	7120
284	[92]		7421	-0.1	6492	-14.5	6833	-8.8	6865	-8.3	6903	-7.7	7432
285	[92]		7322	0.2	6492	-12.5	6754	-8.2	6813	-7.2	6845	-6.7	7305
286	[92]		7290	0.6	6492	-11.6	6706	-8	6777	-6.9	6816	-6.3	7243
287	[92]		7651	5.3	6688	-8.4	7097	-2.1	7075	-2.4	7128	-1.7	7247
288	[92]		7384	1.6	6688	-8.7	6849	-6.1	6900	-5.3	6955	-4.5	7268
289	[92]		7484	0.7	6688	-11.1	6977	-6.5	6995	-6.2	7036	-5.6	7432
290	[92]		7517	1	6688	-11.3	7006	-6.2	7015	-6.1	7056	-5.5	7442
291	[92]		7465	4.3	6496	-9.9	6626	-7.8	6771	-5.5	6840	-4.4	7142
292	[92]		7860	0.6	7338	-6.5	7104	-10	7239	-7.9	7385	-5.8	7812
293	[92]		7522	-5	7279	-8.5	7051	-12	7192	-9.8	7261	-8.8	7899
294	[92]		8026	-2.2	8121	-1	7816	-4.9	7917	-3.6	7970	-2.9	8202
295	[92]		8479	2.1	7988	-3.9	7989	-3.9	8022	-3.4	8120	-2.2	8298

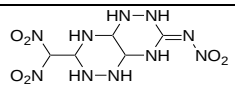
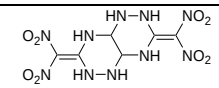
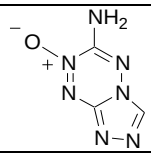
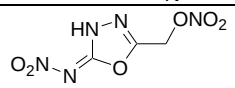
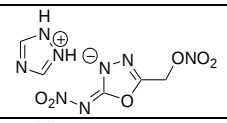
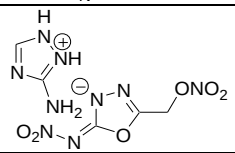
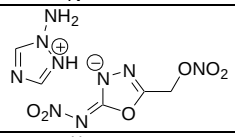
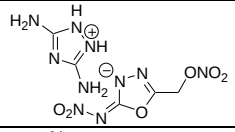
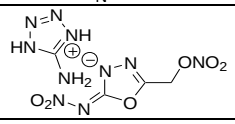
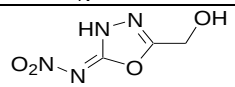
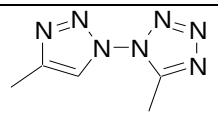
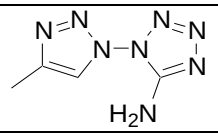
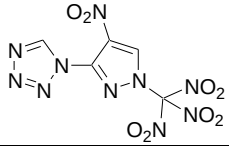
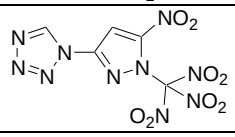
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
296	[92]		7937	2.6	8027	3.7	7395	-4.6	7677	-0.7	7759	0.3	7734
297	[93]		7743	3.6	6736	-10.8	6729	-10.9	7423	-0.6	7158	-4.3	7465
298	[93]		7566	4	7446	2.5	6635	-9.4	7318	0.8	7241	-0.3	7262
299	[93]		8866	9	10007	19.4	8035	-0.4	8481	4.9	8847	8.8	8066
300	[93]		8162	11.4	9067	20.3	6631	-9	7745	6.7	7901	8.5	7228
301	[94]		8304	2	8123	-0.1	7808	-4.2	7864	-3.4	8025	-1.4	8135
302	[94]		7801	1.3	7719	0.2	7392	-4.2	7441	-3.5	7588	-1.5	7700
303	[94]		8170	4.1	8059	2.7	7309	-7.2	7567	-3.6	7776	-0.8	7838
304	[94]		7624	3.8	7439	1.4	6832	-7.4	7078	-3.6	7243	-1.3	7336
305	[95]		8695	2.9	7919	-6.6	7541	-12	7855	-7.5	8002	-5.5	8445
306	[95]		8469	9.3	7700	0.2	7135	-7.7	7496	-2.5	7700	0.2	7685
307	[95]		8326	6.5	6730	-15.6	6971	-11.6	7136	-9	7291	-6.7	7781
308	[95]		7912	-7.2	6358	-33.4	6891	-23.1	7137	-18.8	7074	-19.9	8482
309	[95]		7612	-0.4	8220	7.1	6980	-9.5	7509	-1.7	7580	-0.8	7640

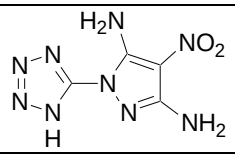
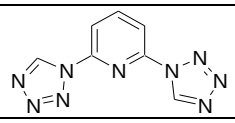
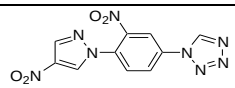
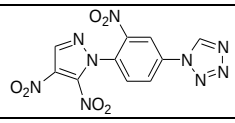
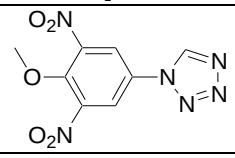
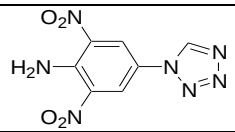
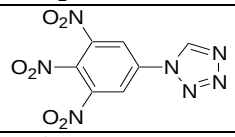
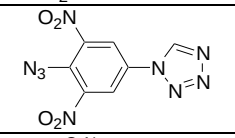
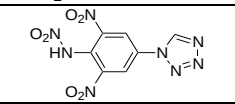
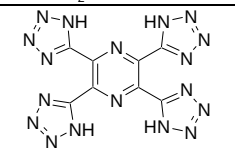
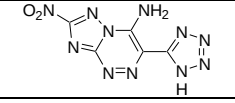
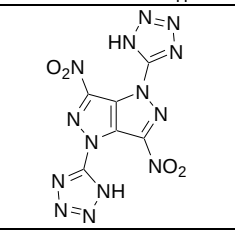
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
310	[95]		8415	-0.7	9053	6.4	7486	-13.2	8118	-4.4	8268	-2.5	8477
311	[95]		8622	3.5	7645	-8.9	7451	-11.7	7785	-6.9	7876	-5.7	8323
312	[95]		7687	-1.1	7951	2.2	7140	-8.9	7590	-2.4	7592	-2.4	7774
313	[95]		7853	-7.7	7693	-9.9	7180	-17.8	7645	-10.6	7593	-11.4	8458
314	[95]		10336	2.1	8875	-14	9274	-9.1	9424	-7.3	9477	-6.7	10114
315	[95]		8939	1.2	9602	8	8371	-5.5	8797	-0.4	8927	1.1	8830
316	[95]		8676	5.6	9005	9.1	8091	-1.2	8200	0.1	8493	3.6	8190
317	[95]		7361	-4.5	-	-	6962	-10.5	7657	-0.4	7327	-5	7690
318	[95]		9158	11.9	8130	0.7	7652	-5.5	7799	-3.5	8185	1.4	8070
319	[95]		8385	2.3	8337	1.8	7731	-5.9	7904	-3.6	8089	-1.2	8190
320	[95]		10623	18.7	8785	1.7	8283	-4.3	8435	-2.4	9032	4.3	8640
321	[95]		9010	0.9	9202	3	8559	-4.3	8773	-1.8	8886	-0.5	8928
322	[95]		9048	0.9	9202	2.6	8592	-4.3	8801	-1.9	8911	-0.6	8964

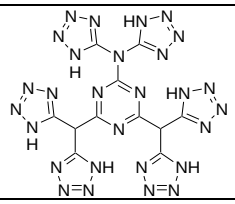
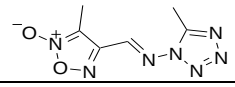
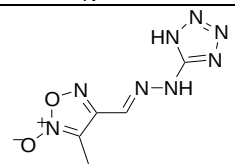
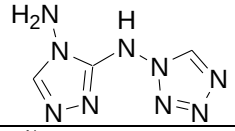
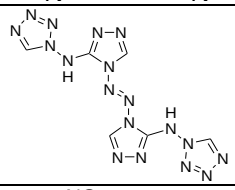
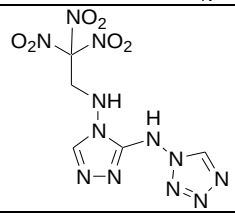
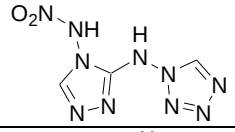
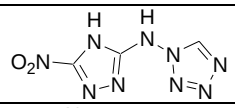
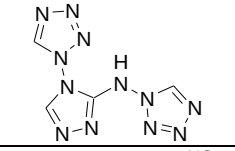
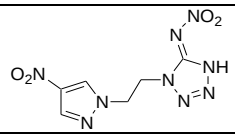
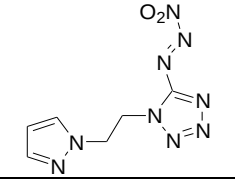
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
323	[95]		9212	4.1	9200	4	8624	-2.4	8763	-0.8	8950	1.3	8834
324	[95]		9165	2	9202	2.4	8600	-4.4	8799	-2	8942	-0.4	8979
325	[95]		9087	1.7	9202	2.9	8554	-4.4	8762	-1.9	8901	-0.3	8932
326	[95]		8687	-0.2	9365	7.1	8175	-6.4	8663	-0.5	8722	0.2	8702
327	[96]		9755	3.6	9863	4.7	8674	-8.4	9153	-2.7	9361	-0.4	9400
328	[96]		9743	1.1	9327	-3.3	8797	-9.5	9050	-6.4	9229	-4.4	9631
329	[96]		9564	3.2	9561	3.2	8499	-8.9	9014	-2.7	9160	-1	9256
330	[96]		8803	0.1	8664	-1.5	8415	-4.5	8488	-3.6	8592	-2.3	8792
331	[96]		8232	-0.3	8240	-0.2	7908	-4.4	7964	-3.7	8086	-2.1	8257
332	[96]		7885	-2.1	7847	-2.6	7671	-5	7680	-4.8	7771	-3.6	8051
333	[96]		8460	1.2	8758	4.6	8035	-4	8201	-1.9	8364	0.1	8356
334	[96]		9306	0.9	9127	-1.1	8900	-3.7	8997	-2.5	9082	-1.6	9226
335	[96]		9194	3.9	8753	-1	8838	0	9037	2.2	8956	1.3	8838
336	[96]		7695	8.6	6535	-7.6	6493	-8.3	6593	-6.7	6829	-3	7032
337	[96]		7943	9.9	-	-	5902	-21.3	6725	-6.5	6857	-4.4	7160

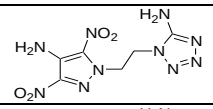
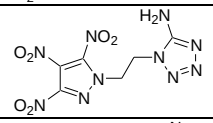
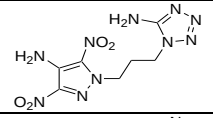
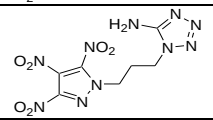
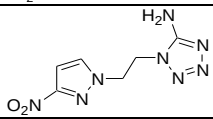
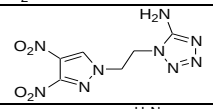
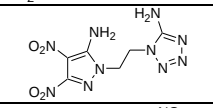
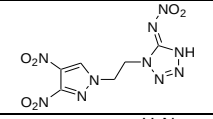
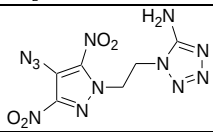
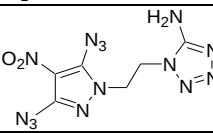
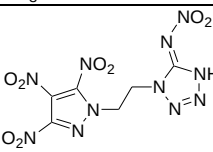
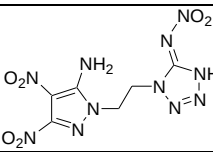
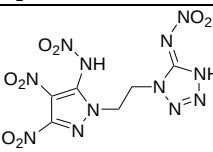
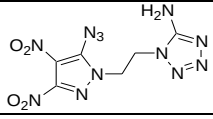
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
338	[96]		9757	14.2	9443	11.3	8093	-3.5	8540	1.9	8958	6.5	8376
339	[96]		7542	-13.8	-	-	7087	-21.1	7751	-10.7	7460	-15	8580
340	[96]		8340	1.1	8781	6	8230	-0.2	8403	1.8	8438	2.2	8250
341	[96]		9116	4.8	8788	1.3	8561	-1.3	8593	-0.9	8764	1	8674
342	[96]		9859	4	9834	3.8	9443	-0.2	9663	2.1	9700	2.5	9460
343	[96]		8413	-5.4	8957	1	8413	-5.4	8626	-2.8	8602	-3	8864
344	[96]		9329	-1.9	9933	4.3	9363	-1.5	9594	0.9	9555	0.5	9507
345	[96]		9533	10.7	9137	6.8	8855	3.8	9035	5.8	9140	6.8	8515
346	[96]		8272	-6.2	9345	6	8368	-5	8721	-0.8	8676	-1.3	8787
347	[96]		8086	-4.5	-	-	7664	-10.2	8502	0.6	8084	-4.5	8449
348	[96]		8885	-5	9359	0.4	8551	-9.1	9207	-1.3	9000	-3.6	9326
349	[96]		9219	-4.1	10037	4.4	8979	-6.9	9517	-0.9	9438	-1.7	9600
350	[96]		8527	-8.9	8366	-11	8261	-12.5	8285	-12.1	8360	-11.1	9290
351	[96]		8392	-2.7	9344	7.7	8182	-5.4	8678	0.7	8649	0.3	8621
352	[96]		9014	-3.2	10102	7.9	9086	-2.4	9517	2.3	9430	1.4	9301

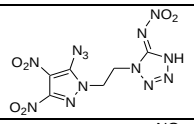
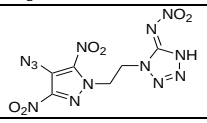
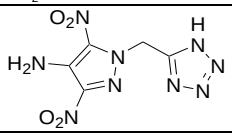
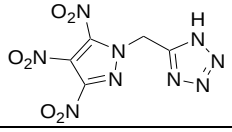
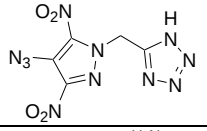
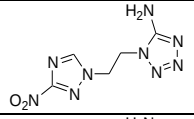
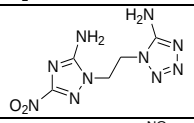
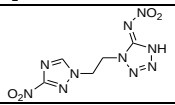
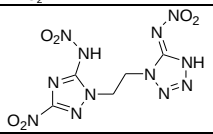
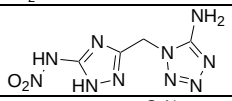
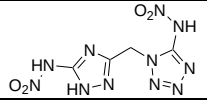
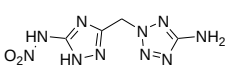
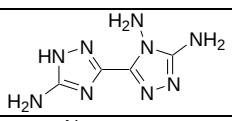
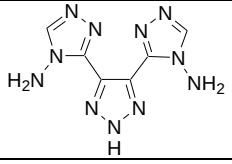
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
353	[96]		8865	-5.9	9622	2.5	8905	-5.4	9282	-1.1	9168	-2.4	9384
354	[96]		8221	-9.6	7457	-20.8	7761	-16.1	8298	-8.6	7934	-13.5	9008
355	[96]		8237	-4.2	-	-	7732	-11	8524	-0.7	8164	-5.1	8581
356	[96]		9413	7.7	-	-	8028	-8.2	8889	2.2	8777	1	8690
357	[96]		8921	-3.5	10187	9.3	8591	-7.5	9255	0.2	9238	0	9236
358	[96]		9494	-0.1	9816	3.2	6522	-45.7	7846	-21.1	8420	-12.8	9500
359	[96]		9587	4	-	-	8049	-14.3	8676	-6	8771	-4.9	9200
360	[96]		8574	-2.6	9344	5.8	8292	-6.1	8775	-0.3	8746	-0.6	8800
361	[96]		9118	1.3	9062	0.7	8123	-10.8	8379	-7.4	8670	-3.8	8998
362	[96]		9029	0.7	9389	4.5	8594	-4.4	8850	-1.4	8966	0	8970
363	[96]		8185	5.2	8200	5.3	7349	-5.6	7773	0.1	7877	1.4	7763
364	[96]		8521	2.5	8709	4.6	7685	-8.2	8207	-1.3	8280	-0.4	8312
365	[96]		8669	1.1	8484	-1	7876	-8.8	8104	-5.8	8283	-3.5	8572
366	[96]		8621	-2.1	8328	-5.6	8527	-3.2	8430	-4.4	8476	-3.8	8798

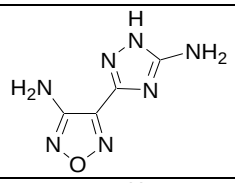
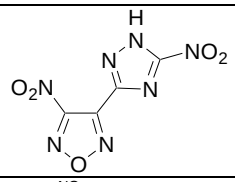
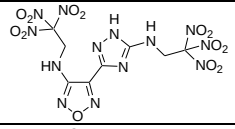
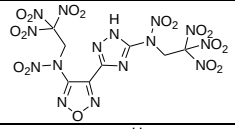
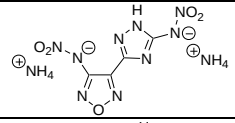
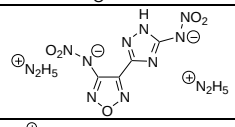
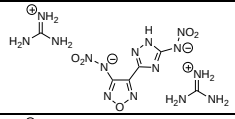
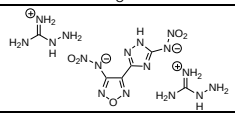
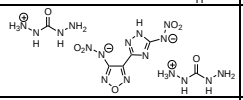
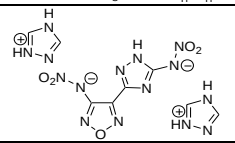
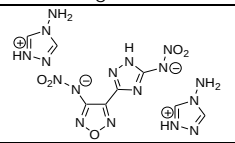
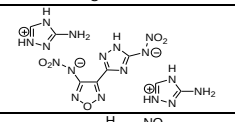
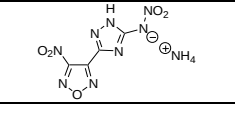
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
367	[96]		6733	-26.1	8532	0.5	8130	-4.5	8247	-3	7910	-7.4	8492
368	[96]		7098	-24.9	8665	-2.3	8610	-2.9	8622	-2.8	8249	-7.4	8862
369	[97]		8007	-2.6	7641	-7.5	7487	-9.7	8012	-2.5	7787	-5.5	8215
370	[98]		8644	-2.4	8732	-1.4	8858	0	8880	0.3	8778	-0.9	8855
371	[98]		8172	-5.6	8237	-4.8	7815	-10.4	7988	-8	8053	-7.2	8630
372	[98]		7614	-14.6	8361	-4.4	8584	-1.6	8651	-0.9	8302	-5.1	8725
373	[98]		7946	-11.7	8518	-4.2	8732	-1.7	8781	-1.1	8494	-4.5	8877
374	[98]		7511	-17.4	8622	-2.3	7910	-11.5	8153	-8.2	8049	-9.6	8821
375	[98]		7929	-15.3	9166	0.3	8990	-1.7	9162	0.2	8812	-3.7	9142
376	[98]		8134	-0.1	7855	-3.6	8042	-1.2	8047	-1.2	8020	-1.5	8140
377	[99]		6973	-10.8	-	-	6223	-24.1	6701	-15.3	6632	-16.5	7725
378	[99]		7146	-8.1		-	6741	-14.6	7292	-5.9	7060	-9.4	7724
379	[99]		9124	2.9	9554	7.3	8641	-2.5	8898	0.4	9054	2.1	8860
380	[99]		9005	2.5	9554	8.1	8566	-2.5	8834	0.6	8990	2.3	8780

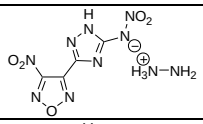
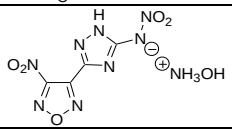
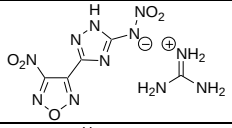
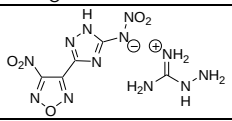
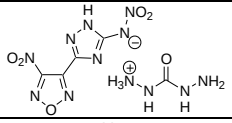
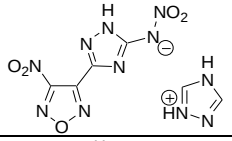
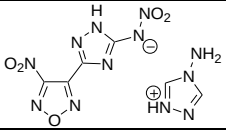
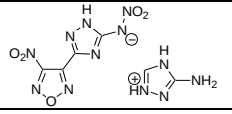
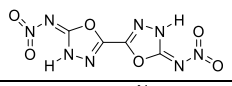
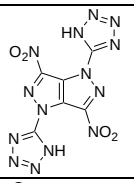
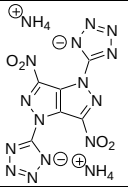
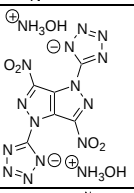
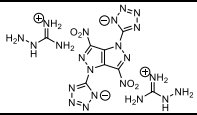
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
381	[99]		7724	-6.9	8209	-0.6	6410	-28.8	7360	-12.2	7426	-11.2	8257
382	[99]		7504	5.1	-	-	6188	-15.1	6707	-6.2	6800	-4.7	7120
383	[99]		7465	4.3	6496	-9.9	6626	-7.8	6771	-5.5	6840	-4.4	7142
384	[99]		7860	0.6	7338	-6.5	7104	-10	7239	-7.9	7385	-5.8	7812
385	[99]		7651	4.9	6859	-6.1	7097	-2.5	7075	-2.8	7170	-1.5	7274
386	[99]		7522	-5	7279	-8.5	7051	-12	7192	-9.8	7261	-8.8	7899
387	[99]		8479	2.1	7988	-3.9	7989	-3.9	8022	-3.4	8120	-2.2	8298
388	[99]		7937	2.6	8027	3.7	7395	-4.6	7677	-0.7	7759	0.3	7734
389	[99]		8026	-2.3	8121	-1.1	7816	-5	7917	-3.7	7970	-3	8208
390	[99]		8856	2.3	-	-	7518	-15.1	8191	-5.7	8188	-5.7	8655
391	[99]		8700	-3.6	8709	-3.5	7783	-15.8	8293	-8.6	8371	-7.6	9010
392	[99]		9004	3.1	9365	6.9	8061	-8.2	8561	-1.9	8748	0.3	8721

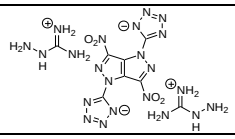
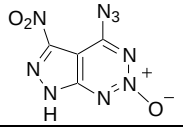
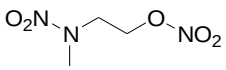
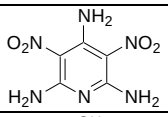
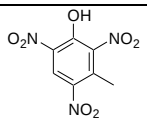
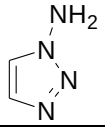
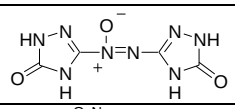
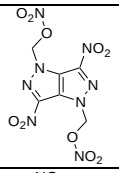
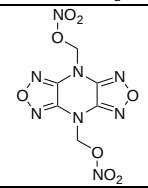
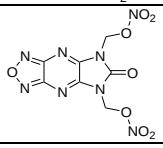
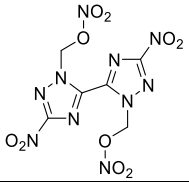
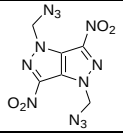
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
393	[99]		8865	16.2	-	-	7280	-2.1	8065	7.9	8070	7.9	7430
394	[99]		7194	4.1	6118	-12.8	6644	-3.9	6903	0	6715	-2.8	6900
395	[99]		7264	-10	7169	-11.5	7407	-7.9	7685	-4	7381	-8.3	7991
396	[99]		7591	-15.8	-	-	7632	-15.2	8236	-6.7	7820	-12.4	8789
397	[99]		8378	-2.6	-	-	7669	-12.1	8357	-2.9	8135	-5.7	8599
398	[99]		8409	-7.1	9346	3.7	8791	-2.4	9032	0.3	8894	-1.2	9004
399	[99]		8310	-10	9240	1.1	8591	-6.4	9065	-0.8	8802	-3.9	9141
400	[99]		8117	-9.5	9288	4.3	8541	-4	9016	1.5	8740	-1.7	8885
401	[99]		8409	-15.3	-	-	7848	-23.5	8514	-13.9	8257	-17.4	9695
402	[99]		7665	-2.1	7941	1.5	7337	-6.6	7571	-3.3	7628	-2.6	7824
403	[99]		7192	2.1	6873	-2.4	6435	-9.4	6895	-2.1	6849	-2.8	7041

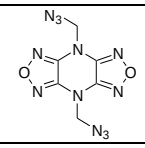
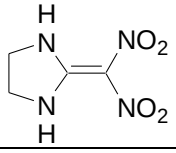
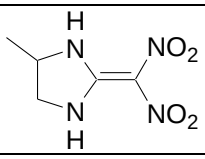
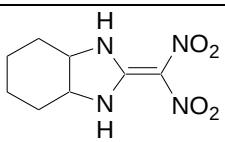
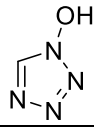
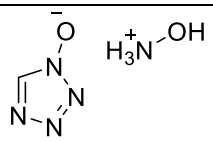
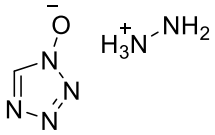
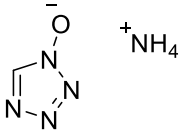
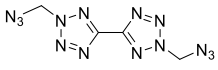
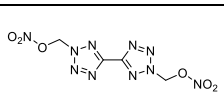
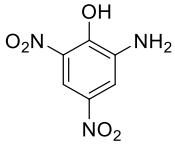
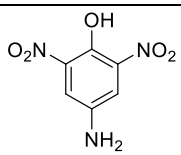
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
404	[99]		7539	-4.6	8057	2.1	7277	-8.4	7569	-4.2	7610	-3.7	7889
405	[99]		8138	-0.4	8689	6	7817	-4.5	8033	-1.7	8169	0	8172
406	[99]		7278	-6.7	7503	-3.5	7069	-9.9	7301	-6.4	7288	-6.6	7768
407	[99]		7797	-2.1	8205	3	7565	-5.2	7725	-3	7823	-1.7	7959
408	[99]		7013	-0.8	6285	-12.5	6330	-11.7	6730	-5.1	6590	-7.3	7072
409	[99]		7458	-0.8	7941	5.4	7067	-6.4	7363	-2.1	7457	-0.8	7516
410	[99]		7573	-4.1	8057	2.2	7300	-8	7588	-3.9	7630	-3.3	7883
411	[99]		8066	-0.6	8689	6.6	7814	-3.8	8031	-1	8150	0.4	8114
412	[99]		8021	-2	8660	5.5	7692	-6.4	8051	-1.7	8106	-1	8185
413	[99]		7695	-2.9	8334	5	7286	-8.7	7842	-1	7789	-1.6	7917
414	[99]		8253	-3.7	9155	6.6	8337	-2.6	8529	-0.3	8568	0.2	8555
415	[99]		7738	-8.4	8778	4.4	7990	-5	8201	-2.3	8177	-2.6	8388
416	[99]		8287	-6.2	9224	4.6	8534	-3.2	8712	-1.1	8689	-1.3	8804
417	[99]		8057	-1.6	8660	5.5	7657	-6.9	8024	-2	8100	-1.1	8186

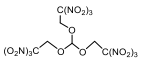
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
418	[99]		8309	-5.3	9209	5	8336	-4.9	8634	-1.3	8622	-1.5	8748
419	[99]		8204	-5.5	9209	6	8270	-4.7	8579	-0.9	8566	-1.1	8659
420	[99]		8234	-3.8	8582	0.4	7944	-7.6	8188	-4.4	8237	-3.8	8548
421	[99]		8843	0	9144	3.3	8488	-4.2	8690	-1.8	8791	-0.6	8845
422	[99]		8573	-1.6	9200	5.4	8194	-6.3	8579	-1.5	8636	-0.8	8707
423	[99]		7410	0.2	7265	-1.8	6690	-10.5	7181	-3	7136	-3.6	7395
424	[99]		7492	-4.2	7349	-6.2	6879	-13.5	7390	-5.6	7278	-7.3	7807
425	[99]		7590	-6.9	8668	6.4	7534	-7.7	7887	-2.9	7920	-2.4	8113
426	[99]		7758	-12	9346	7	7947	-9.3	8299	-4.7	8338	-4.2	8690
427	[99]		7611	-7.6	8236	0.6	7406	-10.5	7929	-3.3	7796	-5	8187
428	[99]		8222	-6.4	9388	6.8	7847	-11.5	8356	-4.7	8453	-3.5	8750
429	[99]		7644	-7.4	8236	0.3	7411	-10.8	7937	-3.5	7807	-5.2	8213
430	[100]		7006	-11.6	-	-	6392	-22.3	7191	-8.7	6863	-13.9	7818
431	[100]		7266	-7.4	-	-	6508	-19.9	7128	-9.5	6967	-12	7806

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
432	[101]		6986	2	5873	-16.6	6656	-2.9	7161	4.4	6669	-2.7	6846
433	[101]		8837	-3.6	9321	1.8	8668	-5.6	8907	-2.8	8933	-2.5	9152
434	[101]		8849	-2.7	9135	0.5	8962	-1.4	8980	-1.2	8982	-1.2	9087
435	[101]		10100	7.4	9560	2.1	9383	0.3	9455	1.1	9624	2.8	9355
436	[101]		8861	-0.4	9163	2.9	8274	-7.5	8549	-4.1	8712	-2.1	8897
437	[101]		7947	-13.8	9281	2.5	8716	-3.8	8949	-1.1	8723	-3.7	9045
438	[101]		6635	-19.7	8748	9.2	7260	-9.4	7740	-2.6	7596	-4.6	7942
439			6301	-34.2	8872	4.7	7723	-9.5	8109	-4.3	7751	-9.1	8455
440	[101]		6517	-25.2	9198	11.3	8000	-2	8300	1.7	8004	-1.9	8159
441			7905	-5.5	8466	1.5	7763	-7.4	8055	-3.6	8047	-3.7	8341
442	[101]		7945	-8.8	8604	-0.4	7934	-8.9	8233	-5	8179	-5.7	8642
443	[101]		7405	-13.1	8604	2.7	7640	-9.6	8006	-4.6	7914	-5.8	8373
444	[101]		8748	0.4	8998	3.1	8371	-4.1	8610	-1.2	8682	-0.4	8716

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
445	[101]		8384	-8.1	9297	2.5	8677	-4.4	8892	-1.9	8812	-2.8	9060
446	[101]		8695	-3	9383	4.6	8747	-2.4	8913	-0.5	8934	-0.2	8954
447	[101]		7419	-7.7	8964	10.9	7576	-5.5	7951	-0.5	7978	-0.2	7990
448	[101]		7202	-13.7	9033	9.4	7771	-5.4	8120	-0.8	8032	-1.9	8187
449	[101]		7319	-12.8	9196	10.2	7932	-4.1	8238	-0.2	8171	-1	8256
450	[101]		8008	-2.4	8778	6.6	7773	-5.5	8084	-1.4	8161	-0.4	8197
451	[101]		8157	-3.3	8853	4.8	7962	-5.8	8261	-2	8308	-1.4	8424
452	[101]		7795	-4.6	8853	7.9	7697	-5.9	8048	-1.3	8098	-0.7	8151
453	[102]		8765	-7.9	8566	-10.4	8790	-7.6	9006	-5	8782	-7.7	9457
454	[103]		9004	3.1	9365	6.9	8061	-8.2	8561	-1.9	8748	0.3	8721
455	[103]		9167	8.3	9072	7.4	7682	-9.4	8171	-2.9	8523	1.4	8404
456	[103]		8545	3.6	9369	12.1	7853	-4.9	8262	0.3	8507	3.2	8237
457	[103]		7316	-24.1	8793	-3.3	7746	-17.2	8223	-10.4	8020	-13.2	9082

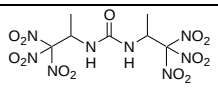
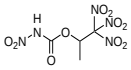
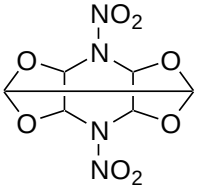
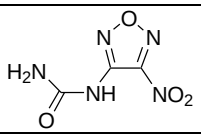
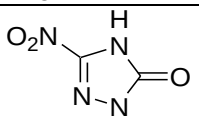
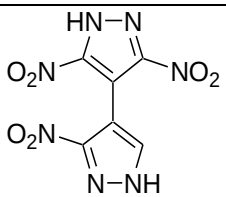
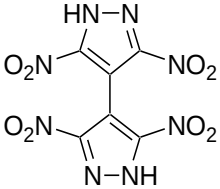
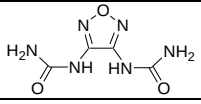
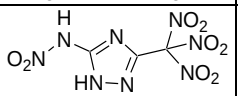
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
458	[103]		6981	-20.3	8793	4.5	7344	-14.3	7893	-6.4	7753	-8.3	8396
459	[104]		8738	-4.3	9441	3.5	8378	-8.7	8823	-3.3	8845	-3	9111
460	[26]		7414	-8.6	7345	-9.6	7676	-4.9	7536	-6.8	7493	-7.4	8050
461	[38]		7350	-5.4	7663	-1.1	7393	-4.8	7488	-3.5	7474	-3.7	7749
462	[38]		7242	6.6	6987	3.2	7558	10.5	7385	8.4	7293	7.3	6763
463	[24]		6697	-16	-	-	6268	-23.9	6882	-12.9	6616	-17.4	7767
464	[24]		7991	-2.7	7983	-2.8	7357	-11.5	7908	-3.7	7810	-5	8204
465	[105]		9116	4.8	8788	1.3	8561	-1.3	8593	-0.9	8764	1	8674
466	[105]		8980	3.5	8546	-1.4	8449	-2.6	8493	-2.1	8617	-0.6	8669
467	[105]		8979	10.3	7994	-0.8	7746	-4	7860	-2.5	8145	1.1	8057
468	[105]		9281	6.9	9065	4.7	8460	-2.1	8604	-0.4	8852	2.4	8639
469	[105]		8324	0.4	8868	6.5	7816	-6.1	8209	-1	8304	0.1	8292

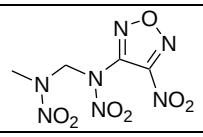
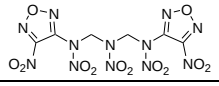
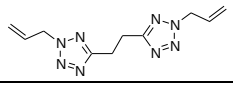
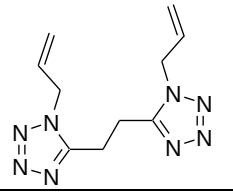
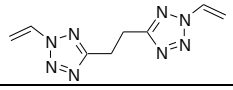
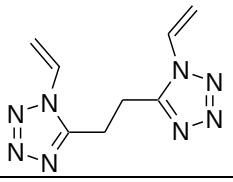
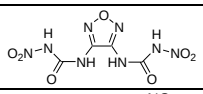
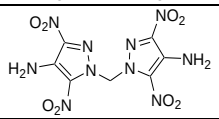
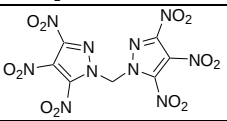
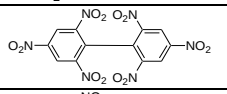
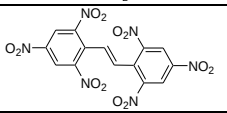
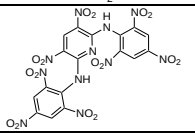
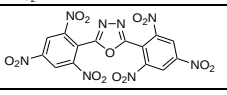
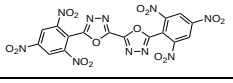
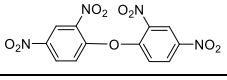
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
470	[105]		8017	-3.8	8304	-0.2	7484	-11.2	7971	-4.4	7944	-4.8	8323
471	[47]		7278	-15.3	7097	-18.3	7566	-10.9	7483	-12.2	7356	-14.1	8394
472	[47]		6867	-12.4	6292	-22.7	7225	-6.9	7087	-8.9	6868	-12.4	7720
473	[47]		6097	-18.9	4706	-54.1	6387	-13.5	6239	-16.2	5857	-23.8	7251
474	[106]		7840	-7.2	8682	3.2	7977	-5.4	8516	1.3	8254	-1.8	8405
475	[106]		7869	-18	8814	-5.3	7818	-18.8	8333	-11.4	8208	-13.1	9284
476	[106]		7343	-28.5	6198	-52.3	7838	-20.4	8394	-12.4	7443	-26.8	9437
477	[106]		7646	-4.8	6287	-27.5	7683	-4.3	8207	2.4	7456	-7.5	8013
478	[107]		8073	-1	-	-	7444	-9.6	8238	1	7918	-3	8155
479	[107]		8693	3.6	9054	7.5	8152	-2.8	8496	1.4	8599	2.6	8377
480	[108]		7209	9.1	6451	-1.6	6726	2.6	6635	1.2	6755	3	6553
481	[109]		7488	0.4	6451	-15.6	7465	0.1	7179	-3.9	7146	-4.4	7458

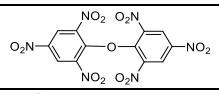
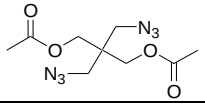
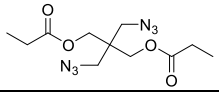
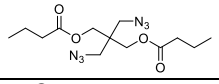
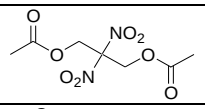
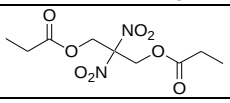
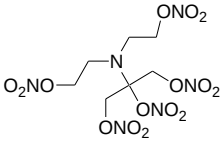
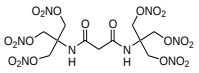
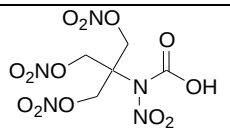
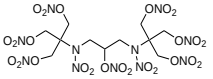
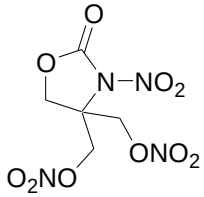
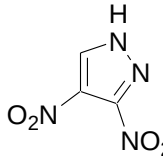
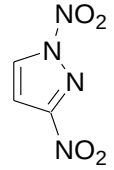
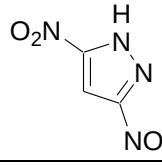
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
482	[110]		9687		8675	-	8741	-	8702	-	8951	-	-

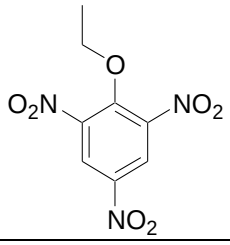
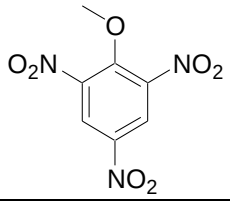
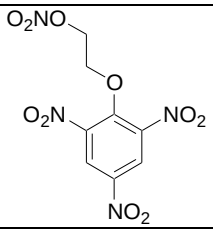
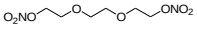
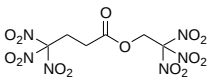
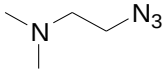
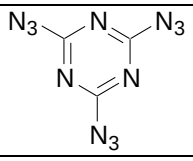
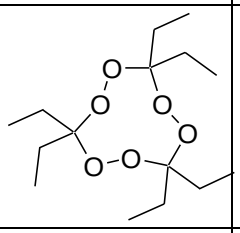
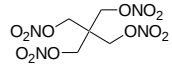
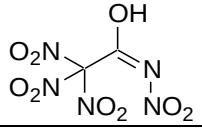
2.2.2 The detonation velocities of neutral compounds

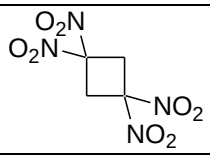
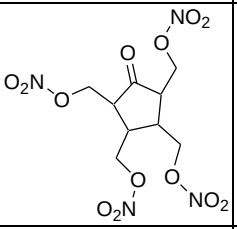
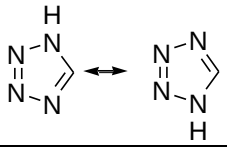
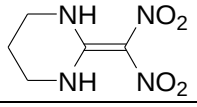
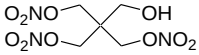
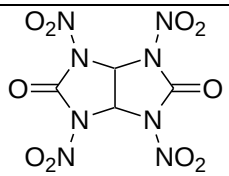
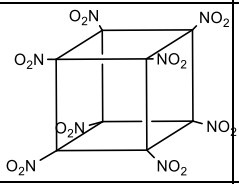
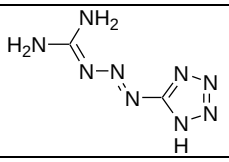
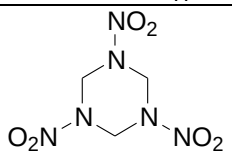
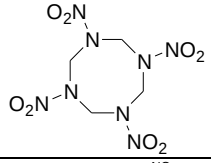
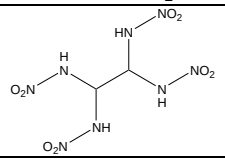
Table 32. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the neutral compounds.

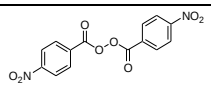
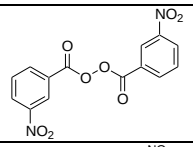
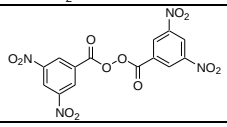
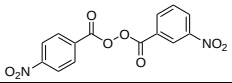
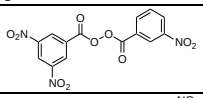
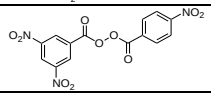
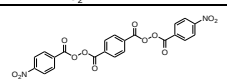
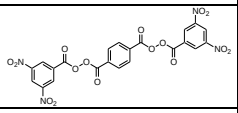
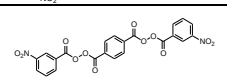
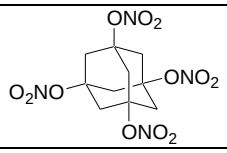
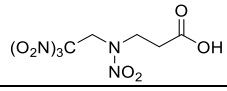
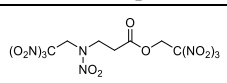
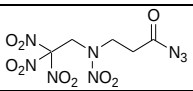
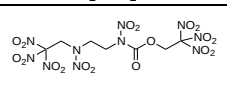
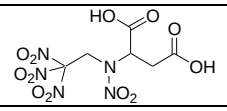
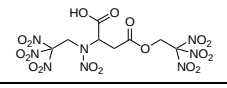
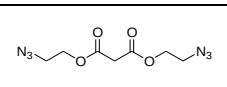
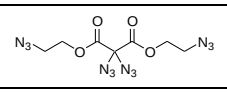
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
1	[22]		8263	-2.5	8400	-0.8	8547	0.9	8388	-1	8399	-0.8	8469
2	[22]		7777	1.2	8582	10.5	7953	3.4	8006	4.1	7912	2.9	7680
3	[23] [24]		8822	2.3	6896	-24.9	8139	-5.8	7832	-10	8092	-6.5	8615
4	[25]		7511	3.3	8516	8.9	7751	-0.1	7979	2.8	7939	2.3	7759
5	[23] [26]		8327	2.6	8753	2.4	8081	-5.7	8396	-1.8	8389	-1.8	8543
6	[27]		8228	0.3	8365	1.3	8019	-3	7997	-3.2	8123	-1.6	8256
7	[27]		8394	1.5	8908	4.4	8232	-3.5	8379	-1.7	8478	-0.5	8520
8	[25]		7547	9.8	6885	-20.3	7281	-13.8	7590	-9.1	7326	-13.1	8283
9	[28]		8920	3.7	9750	5.1	9397	1.6	9580	3.4	9409	1.7	9250

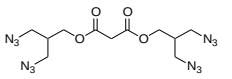
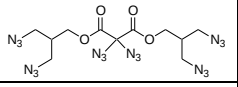
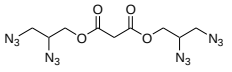
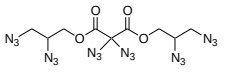
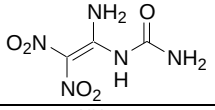
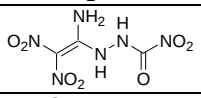
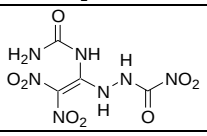
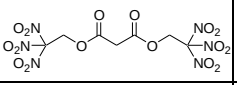
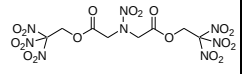
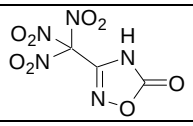
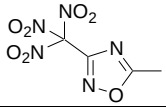
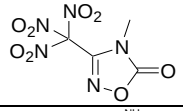
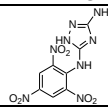
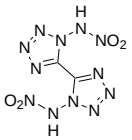
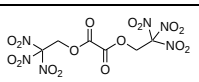
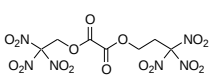
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
10	[29]		8433	1.9	9184	6.4	8579	-0.2	8644	0.6	8710	1.3	8596
11	[29]		9912	5.8	9600	2.8	9248	-0.9	9364	0.3	9531	2.1	9334
12	[30]		5408	13.7	-	-	4514	-36.2	5243	-17.3	5055	-21.6	6148
13	[30]		5408	14	-	-	4535	-36	5257	-17.3	5067	-21.7	6167
14	[30]		6310	12.7	-	-	5284	-34.5	5843	-21.7	5812	-22.3	7109
15	[30]		6310	13	-	-	5296	-34.7	5852	-21.9	5819	-22.6	7132
16	[25]		7901	9.9	8908	2.5	8487	-2.3	8671	-0.2	8492	-2.3	8685
17	[31]		8223	1.3	8642	3.6	8016	-3.9	8132	-2.5	8253	-1	8332
18	[31]		9733	4.4	9201	-1.1	9029	-3	9094	-2.3	9264	-0.4	9304
19	[32] [26]		7609	1.4	7314	-2.5	7355	-2	7298	-2.8	7394	-1.4	7500
20	[32]		7369	3.3	6830	-11.4	7276	-4.6	7116	-7	7148	-6.5	7612
21	[32]		7420	4.5	7462	-4	7421	-4.5	7379	-5.1	7420	-4.5	7757
22	[32] [33]		8083	3	7350	-6.7	7543	-3.9	7478	-4.8	7614	-3	7840
23	[32]		8543	6	7377	-8.9	7547	-6.4	7486	-7.3	7738	-3.8	8030
24	[34]		7290	9.7	6277	-4.9	6827	3.6	6623	0.6	6754	2.5	6582

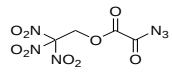
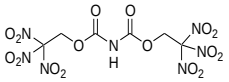
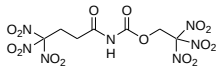
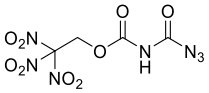
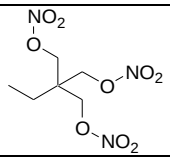
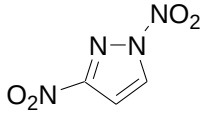
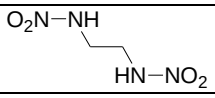
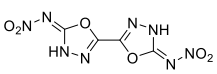
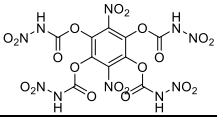
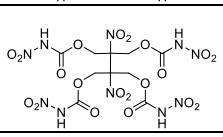
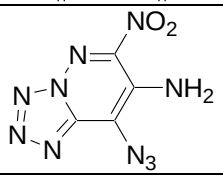
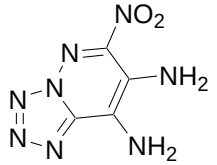
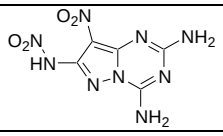
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
25	[34]		8201	6.9	7449	-2.5	7794	2.1	7617	-0.2	7765	1.7	7634
26	[35]		5507	1.6	4203	-29	4912	-10.3	5434	0.3	4828	-12.3	5420
27	[35]		5088	4	3458	-53	4553	-16.2	5124	-3.3	4556	-16.2	5292
28	[35]		4648	8.6	2842	-77.6	4185	-20.6	4852	-4	4130	-22.2	5048
29	[35]		6297	9.8	5396	-5.3	5796	1.9	5916	3.9	5851	2.9	5683
30	[35]		5652	9.6	4641	-10.1	5224	2.2	5435	6	5238	2.4	5111
31	[36]		8368	3.7	8008	-0.6	8393	4	8158	1.2	8232	2.1	8059
32	[36]		7654	3.1	7548	-4.5	7911	0.3	7726	-2.1	7710	-2.3	7891
33	[36]		8307	3.1	8209	2	8495	5.3	8356	3.7	8434	4.6	8048
34	[36]		9319	8.3	8384	-2	8869	3.6	8622	0.8	8798	2.8	8550
35	[36]		8727	5.3	7679	-7.6	8165	-1.2	8008	-3.2	8145	-1.5	8266
36	[37]		8082	4.3	8824	4.5	8257	-2	8336	-1.1	8375	-0.6	8426
37	[37]		8235	2.7	8824	4.1	8295	-2	8378	-1	8433	-0.3	8459
38	[37]		8048	2.9	8824	6.2	8113	-2	8215	-0.8	8300	0.3	8279

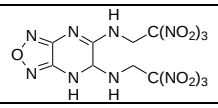
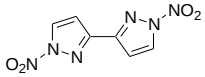
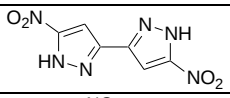
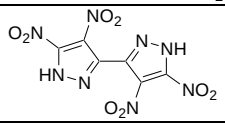
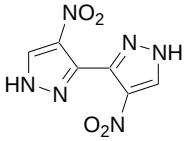
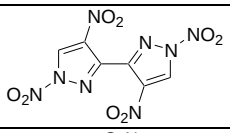
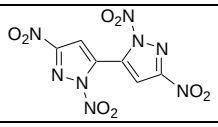
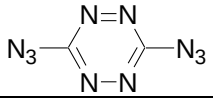
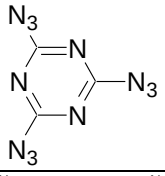
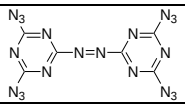
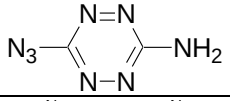
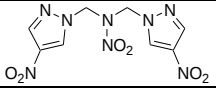
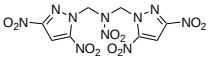
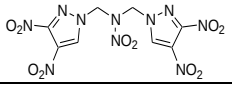
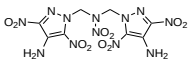
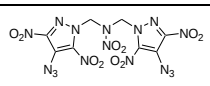
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
39	[26]		6845	4.4	6303	-3.8	6741	2.9	6598	0.8	6622	1.2	6545
40	[38]		7502	6.2	6800	-3.5	7263	3.1	7059	0.3	7156	1.7	7035
41	[38]		7742	3.5	7290	-2.5	7684	2.8	7476	0.1	7548	1	7470
44	[38]		6473	0.4	5848	-11.1	6468	-0.5	6354	-2.3	6286	-3.4	6498
45	[38]		8852	2.7	8537	-0.9	8658	0.5	8534	-1	8645	0.3	8616
46	[24]		4940	16	-	-	4252	-34.8	5168	-10.9	4787	-19.7	5730
47	[24] [40]		8221	4.3	-	-	7403	-6.3	8458	7	8027	2	7866
49	[42]		4600	37.4	714	-785.4	4462	-41.7	4599	-37.5	3594	-75.9	6322
51	[44]		8620	1.1	8077	-5.5	8652	1.5	8375	-1.8	8431	-1.1	8525
54	[38]		9325	19.5	8176	8.2	9370	19.9	9506	21.1	9094	17.5	7503

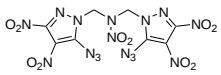
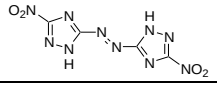
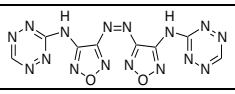
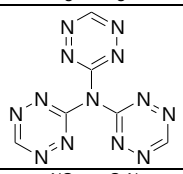
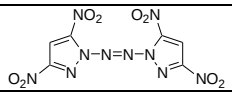
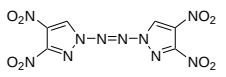
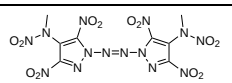
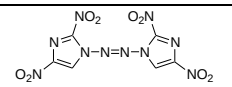
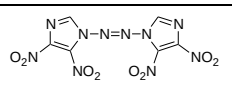
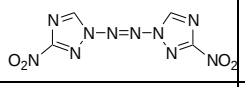
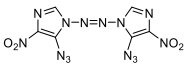
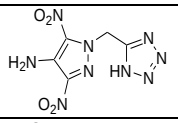
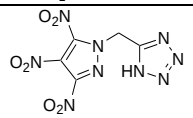
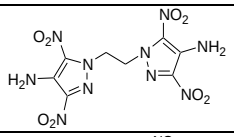
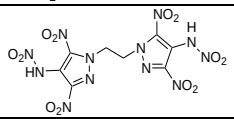
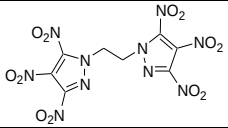
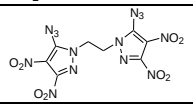
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
55	[38]		8730	1	8575	-0.8	8873	2.6	8696	0.6	8718	0.8	8646
56	[38]		7219	4.1	6786	-10.8	7308	-2.9	7108	-5.8	7105	-5.8	7518
58	[38]		7165	9.3	-	-	6781	-15.5	7710	-1.6	7219	-8.5	7831
59	[47]		6958	13.6	6292	-25.7	7331	-7.8	7163	-10.4	6936	-14	7906
60	[38]		7550	3	7540	-3.1	7683	-1.2	7484	-3.9	7564	-2.8	7777
61	[38]		10004	0.6	8856	-12.3	9548	-4.2	9617	-3.4	9506	-4.6	9946
62	[38]		9623	0.6	8928	-7.1	9469	-1	9443	-1.3	9366	-2.1	9562
63	[38]		7964	22.2	-	-	7514	-29.5	8526	-14.1	8001	-21.6	9729
64	[26]		8237	7.8	8940	0.6	8771	-1.3	8765	-1.3	8773	-1.2	8882
65	[38]		9184	1.1	9042	-2.7	9149	-1.5	9077	-2.3	9113	-1.9	9286
66	[38]		8393	4.4	9659	9.3	9636	9.1	9720	9.9	9352	6.3	8760

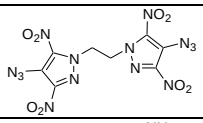
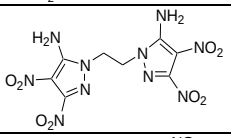
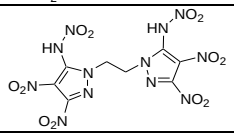
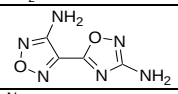
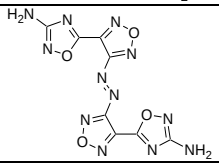
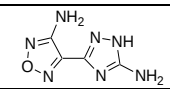
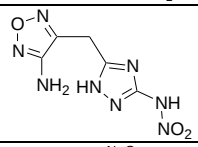
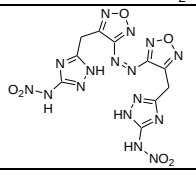
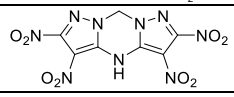
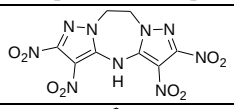
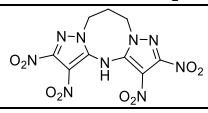
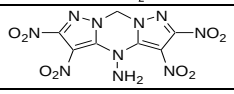
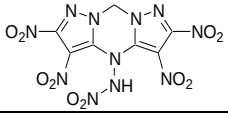
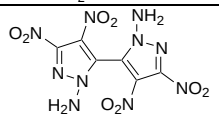
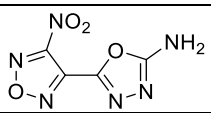
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
67	[48]		6354	3.5	4197	-46	5752	-6.6	5577	-9.9	5470	-12	6129
68	[48]		6354	3.5	4197	-46.1	5757	-6.5	5582	-9.8	5471	-12	6130
69	[48]		7183	1.3	5893	-20.3	6853	-3.4	6662	-6.4	6648	-6.6	7087
70	[48]		6517	1.9	4197	-52.4	5909	-8.2	5657	-13	5570	-14.8	6395
71	[48]		6863	1	5158	-31.8	6451	-5.3	6219	-9.3	6173	-10.1	6796
72	[48]		6835	1.1	5158	-31	6425	-5.2	6204	-8.9	6156	-9.8	6757
73	[48]		5310	0.1	3642	-45.9	5179	-2.6	5189	-2.4	4830	-10	5315
74	[48]		5895	1.9	4929	-21.9	5897	-1.9	5882	-2.1	5651	-6.3	6007
75	[48]		5288	0.1	3642	-45.1	5980	11.6	5910	10.6	5205	-1.5	5284
77	[49]		7348	0.9	6556	-11.1	7435	2.1	7121	-2.3	7115	-2.3	7282
78	[50]		8337	4.2	8093	1.3	8150	2	8041	0.7	8155	2.1	7987
79	[50]		8775	5.4	8653	4.1	8503	2.4	8429	1.5	8590	3.4	8300
80	[50]		8349	0.8	8707	4.8	8288	0	8363	0.9	8427	1.7	8285
81	[50]		9754	6.9	9008	-0.8	9212	1.4	9102	0.2	9269	2	9083
82	[50]		8130	7.6	7739	2.9	7671	2	7652	1.8	7798	3.6	7515
83	[50]		8475	8	8354	6.6	8014	2.7	8010	2.6	8213	5	7801
84	[51]		6329	2.2	5120	-20.9	5648	-9.6	6039	-2.5	5784	-7.1	6192
85	[51]		6999	0.4	7209	3.3	6660	-4.7	7135	2.3	7001	0.4	6974

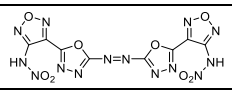
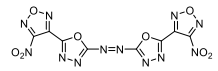
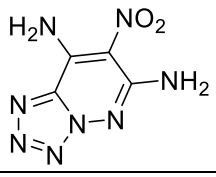
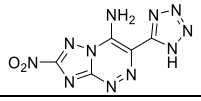
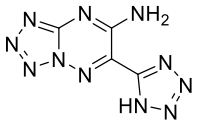
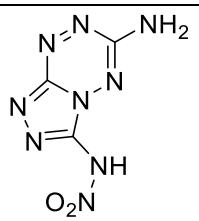
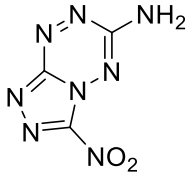
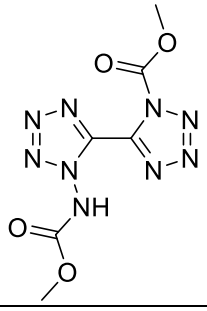
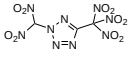
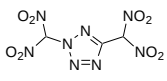
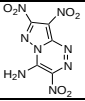
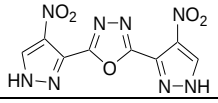
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
86	[51]		5977	10	5598	-17.5	5880	-11.8	6278	-4.7	5933	-10.8	6576
87	[51]		6681	7	6978	-2.4	6695	-6.8	7122	-0.4	6869	-4	7147
88	[51]		6052	3.3	6340	1.4	5809	-7.6	6350	1.5	6138	-1.9	6252
89	[51]		7004	1.2	7669	7.6	6816	-4	7346	3.5	7209	1.7	7087
90	[52]		7922	7.5	8184	-4.1	8067	-5.6	8183	-4.1	8089	-5.3	8516
91	[52]		7978	7.5	9009	4.8	8512	-0.8	8634	0.7	8533	-0.5	8576
92	[52]		7394	4.2	8573	17.4	7818	9.4	8043	11.9	7957	11	7085
94	[53]		8790	6	8197	-0.8	8361	1.2	8262	0	8402	1.7	8263
95	[53]		8987	6.4	8354	-0.7	8506	1.1	8401	-0.2	8562	1.7	8415
96	[54]		9158	3.9	8870	0.8	9619	8.5	9658	8.9	9326	5.7	8798
97	[54]		8696	1	8980	2.2	8686	-1.1	8655	-1.4	8754	-0.3	8779
98	[54]		8655	1.7	8404	-4.8	8868	0.7	8835	0.4	8690	-1.3	8804
105	[55]		7579	7.9	7635	-7.1	7540	-8.5	7554	-8.3	7577	-7.9	8178
109	[56]		9428	7.6	10855	6.6	9715	-4.4	10282	1.4	10070	-0.7	10142
113	[57]		9317	11.2	8017	-3.2	8813	6.1	8724	5.1	8718	5.1	8275
114	[57]		8674	7	8197	1.5	8305	2.8	8220	1.8	8349	3.3	8071

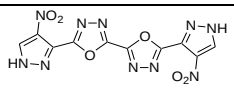
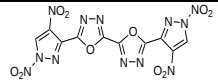
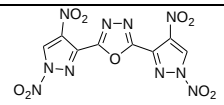
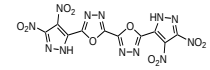
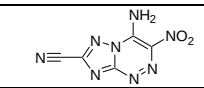
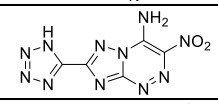
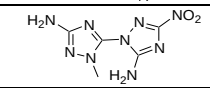
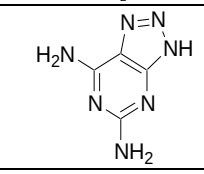
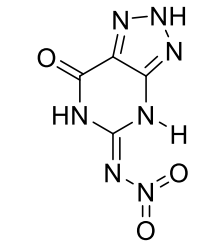
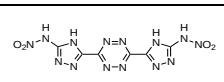
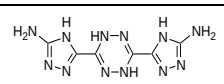
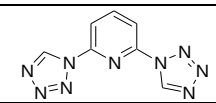
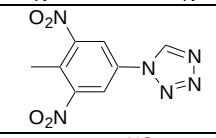
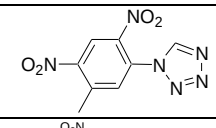
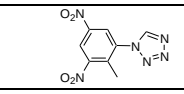
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
115	[57]		8641	4.8	8574	4.1	8353	1.6	8496	3.2	8516	3.4	8223
116	[57]		9413	7.8	8251	-5.1	8967	3.3	8867	2.2	8874	2.2	8675
117	[57]		8003	3.7	8303	7.2	7889	2.4	7905	2.6	7932	2.9	7703
118	[57]		7515	4	8697	17.1	7385	2.3	7727	6.7	7831	7.9	7213
119	[26]		7141	0.6	6815	-4.1	7298	2.8	7074	-0.3	7082	-0.2	7097
120	[37]		8235	2.3	8824	4.5	8295	-1.6	8378	-0.6	8433	0.1	8426
121	[26]		7842	6.3	8309	-0.3	8421	1	8380	0.5	8238	-1.2	8336
123	[58]		8731	7.5	8566	-9.6	8941	-5	9130	-2.8	8842	-6.2	9388
129	[60]		7701	0	8023	4	7629	-1	7806	1.3	7790	1.1	7702
130	[60]		8225	0.9	7846	-5.8	8293	-0.1	8190	-1.3	8138	-2	8298
131	[61]		8540	2.4	9212	5.1	8079	-8.3	8608	-1.6	8610	-1.6	8746
132	[61]		8064	4.6	8179	-3.1	7630	-10.5	8025	-5.1	7974	-5.8	8434
136	[62]		8165	6.7	8582	-1.5	8004	-8.9	8242	-5.7	8248	-5.6	8713

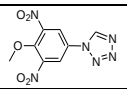
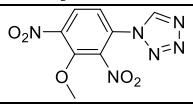
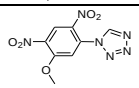
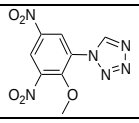
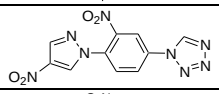
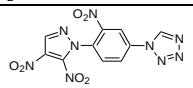
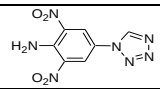
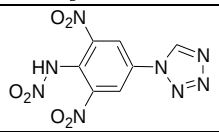
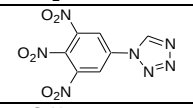
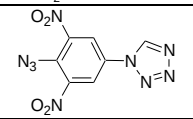
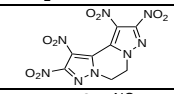
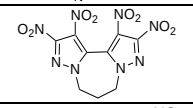
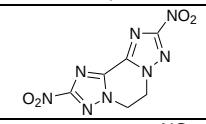
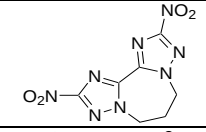
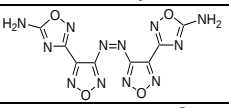
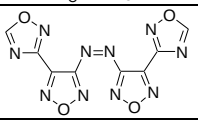
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
138	[63]		8005	5	8907	5.6	8430	0.2	8483	0.9	8456	0.6	8409
139	[64]		8320	0.2	7503	-10.6	7718	-7.6	7728	-7.4	7817	-6.2	8301
140	[64]		7794	3	7503	-7	7425	-8.1	7481	-7.3	7551	-6.3	8026
141	[64]		8464	1.1	8908	4	8079	-5.9	8251	-3.7	8426	-1.5	8556
142	[64]		7858	3.3	7503	-8.2	7469	-8.7	7512	-8.1	7586	-7	8120
143	[64]		9037	1.9	8908	0.4	8523	-4.1	8631	-2.8	8775	-1.1	8869
144	[64]		9057	1.4	8908	-0.2	8578	-4.1	8680	-2.8	8806	-1.4	8926
145	[40]		7887	5.3	-	-	8023	-3.5	8987	7.6	8299	-0.1	8306
146	[40]		8257	0.6	-	-	7699	-7.9	8680	4.3	8212	-1.2	8308
147	[40]		8282	0.3	-	-	7691	-8	8582	3.2	8185	-1.5	8306
148	[40]		7728	9.3	-	-	7664	-10.2	8502	0.6	7965	-6.1	8449
150	[65]		7814	0.7	7486	-5.1	7429	-5.9	7445	-5.7	7544	-4.3	7867
151	[65]		8680	4.9	8583	3.8	8234	-0.3	8273	0.2	8442	2.2	8258
152	[65]		8680	4.8	8583	3.7	8242	-0.3	8280	0.2	8446	2.1	8265
153	[65]		8549	1.1	8753	1.3	8555	-1	8575	-0.7	8608	-0.4	8639
154	[65]		9265	5.9	9339	6.7	8619	-1.1	8880	1.8	9026	3.4	8717

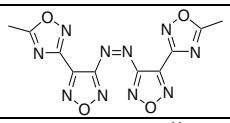
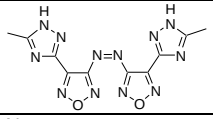
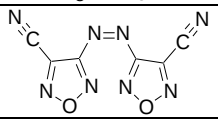
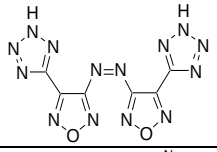
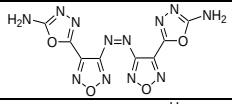
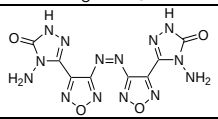
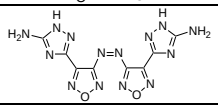
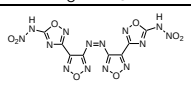
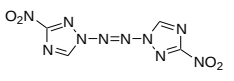
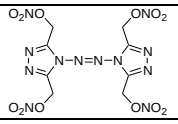
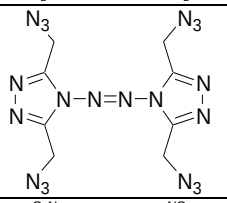
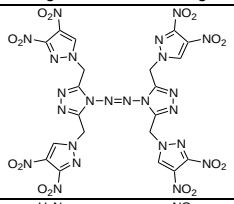
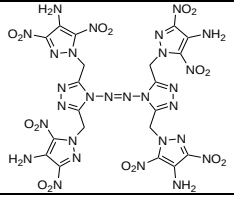
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
155	[65]		9265	5.8	9339	6.6	8626	-1.1	8886	1.8	9029	3.4	8724
156	[66]		8702	2.9	9602	6.8	8421	-6.3	8845	-1.2	8892	-0.7	8952
162	[67]		8078	0	8373	3.6	7457	-8.3	7996	-1	7976	-1.2	8075
165	[67]		8433	1.3	-	-	7415	-12.2	8053	-3.3	7967	-4.5	8322
166	[68]**4**		9010	7.9	9202	9.8	8559	3	8773	5.4	8886	6.6	8298
167	[68]**5**		9048	0.9	9202	2.6	8592	-4.3	8801	-1.9	8911	-0.6	8964
168	[68]**6**		9212	4.1	9200	4	8654	-2.1	8790	-0.5	8964	1.5	8834
169	[68]**7**		9165	2	9202	2.4	8600	-4.4	8799	-2	8942	-0.4	8979
170	[68]**8**		9087	1.7	9202	2.9	8554	-4.4	8762	-1.9	8901	-0.3	8932
171	[68]		8939	1.3	9602	8.1	8373	-5.4	8799	-0.3	8928	1.2	8825
172	[68]		8687	0.2	9365	7.1	8056	-8	8557	-1.7	8666	-0.4	8702
173	[69]		8234	3.8	8582	0.4	7944	-7.6	8188	-4.4	8237	-3.8	8548
174	[69]		8843	0	9144	3.3	8488	-4.2	8690	-1.8	8791	-0.6	8845
183	[70]		7903	3.6	8238	0.6	7815	-4.8	7871	-4	7957	-2.9	8189
184	[70]		8711	0.5	9000	2.7	8588	-1.9	8650	-1.2	8737	-0.2	8753
186	[70]		9139	4.2	8852	1.1	8551	-2.4	8588	-2	8782	0.3	8759
187	[70]		8737	0.7	8991	2.2	8398	-4.8	8651	-1.7	8694	-1.2	8797

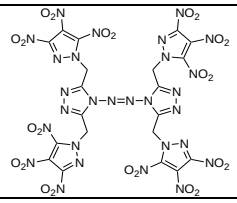
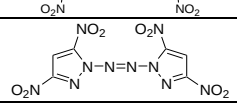
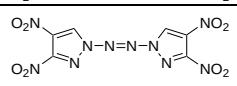
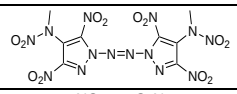
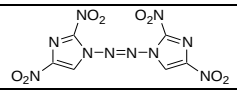
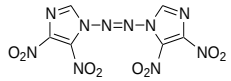
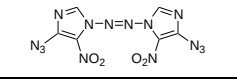
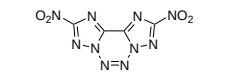
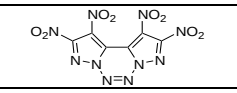
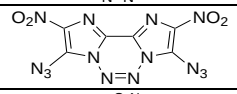
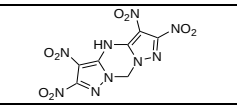
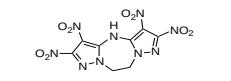
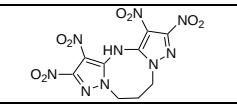
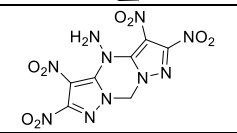
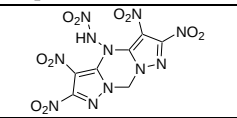
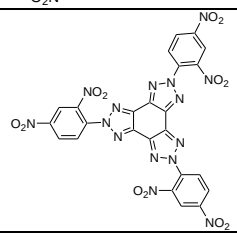
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
188	[70]		8661	1.2	8991	4.8	8170	-4.7	8444	-1.4	8566	0.1	8558
189	[70]		7836	3.7	8238	1.3	7772	-4.6	7839	-3.7	7921	-2.6	8127
190	[70]		8675	0.4	9000	3.2	8546	-1.9	8615	-1.1	8709	0	8710
191	[71]		7542	1.1	7458	0	6820	-9.4	7227	-3.2	7262	-2.7	7459
193	[71]		7976	5.4	8192	7.9	6964	-8.4	7405	-1.9	7634	1.1	7547
194	[71]		7362	5.9	5873	-32.8	6698	-16.4	7229	-7.9	6790	-14.8	7798
199	[73]		7361	9.8	7834	-3.1	7456	-8.4	7699	-4.9	7588	-6.5	8079
200	[73]		7700	5.5	8314	2.3	7607	-6.8	7890	-3	7878	-3.1	8125
210	[75]		8785	0.1	8664	-1.5	8400	-4.7	8475	-3.7	8562	-2.7	8792
211	[75]		8232	0.3	8240	-0.2	7908	-4.4	7964	-3.7	8086	-2.1	8257
212	[75]		7885	2.1	7847	-2.6	7671	-5	7680	-4.8	7771	-3.6	8051
216	[75]		8460	1.2	8758	4.6	8035	-4	8201	-1.9	8364	0.1	8356
217	[75]		9295	0.7	9127	-1.1	8890	-3.8	8989	-2.6	9075	-1.7	9226
219	[76]		8285	2.6	9080	6.3	8263	-2.9	8449	-0.7	8519	0.2	8504
220	[77]		8240	1.7	8781	7.7	7724	-4.9	7991	-1.4	8184	1	8102

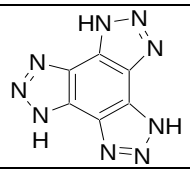
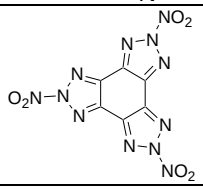
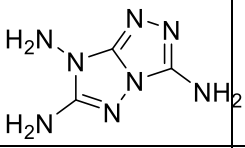
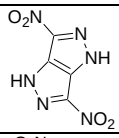
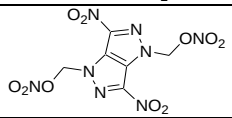
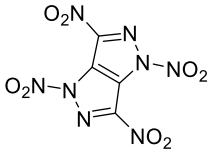
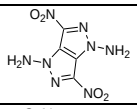
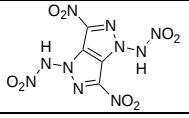
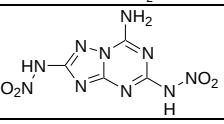
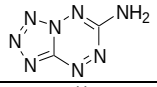
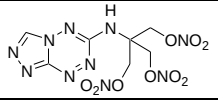
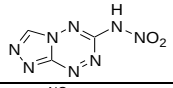
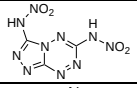
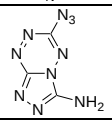
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
221	[77]		8945	6	8660	2.9	7940	-5.9	8295	-1.4	8460	0.6	8409
222	[77]		9598	8.3	8954	1.7	8170	-7.7	8475	-3.8	8683	-1.3	8800
223	[78]		8297	7.3	8179	-8.8	7731	-15.1	8115	-9.7	8080	-10.1	8899
231	[80]		8711	3.4	8709	-3.5	7792	-15.6	8300	-8.6	8378	-7.5	9010
232	[80]		8415	0.6	-	-	7446	-12.4	8195	-2.1	8019	-4.3	8367
239	[81]		8293	5.7	9288	5.7	8175	-7.2	8694	-0.8	8612	-1.8	8763
240	[81]		8647	3.5	9344	4.2	8374	-6.9	8846	-1.2	8803	-1.7	8953
241	[82]		7630	3	7063	-4.8	7122	-3.9	7409	0.1	7306	-1.3	7403
254	[85]		9651	11.8	9252	8	9432	9.8	9684	12.1	9505	10.5	8511
258	[85]		9515	4.1	9750	6.4	9393	2.9	9587	4.8	9561	4.6	9123
261	[86]		8935	2.2	9062	3.6	8479	-3	8657	-0.9	8783	0.5	8737
262	[87]		7987	1.4	7264	-11.5	7508	-7.9	7594	-6.6	7588	-6.7	8099

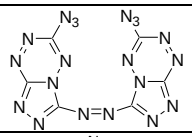
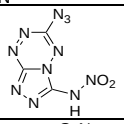
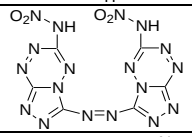
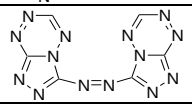
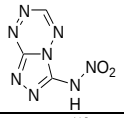
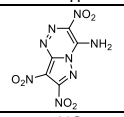
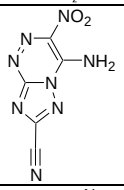
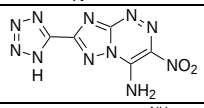
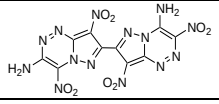
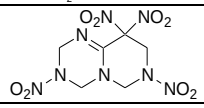
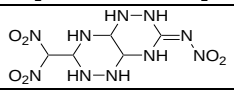
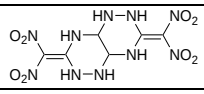
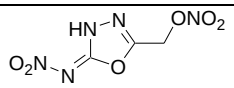
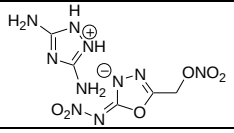
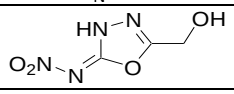
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
263	[87]		8243	2.3	7098	-13.5	7431	-8.4	7553	-6.6	7581	-6.2	8054
264	[87]		9423	6	8102	-9.3	7499	-18.1	7771	-13.9	8199	-8	8855
265	[87]		9245	5.2	8434	-3.9	8552	-2.5	8676	-1	8727	-0.4	8766
266	[87]		9037	3.6	8102	-7.5	7614	-14.4	7859	-10.8	8153	-6.8	8710
267	[88]		7990	2.8	8200	5.3	7186	-8	7644	-1.6	7607	-2.1	7763
268	[88]		8517	2.4	8709	4.6	7635	-8.9	8169	-1.8	8258	-0.7	8312
269	[89]		8003	6	7265	-3.5	7374	-2	7715	2.5	7589	0.9	7520
270	[90]		7121	4.3	-	-	6163	-20.5	6875	-8	6720	-10.5	7426
271	[90]		8311	6.4	8228	-7.5	7952	-11.2	8235	-7.4	8182	-8.1	8845
272	[91]		8390	8.5	9171	0.8	8660	-5.1	9027	-0.8	8812	-3.3	9100
273	[91]		6734	32.8	-	-	7645	-17	8043	-11.2	7474	-19.7	8943
283	[92]		7504	5.1	-	-	6188	-15.1	6707	-6.2	6800	-4.7	7120
284	[92]		7421	0.1	6492	-14.5	6833	-8.8	6865	-8.3	6903	-7.7	7432
285	[92]		7322	0.2	6492	-12.5	6754	-8.2	6813	-7.2	6845	-6.7	7305
286	[92]		7290	0.6	6492	-11.6	6706	-8	6777	-6.9	6816	-6.3	7243

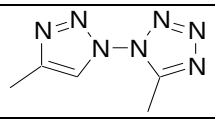
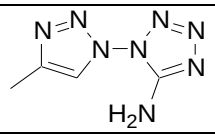
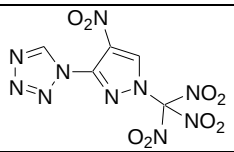
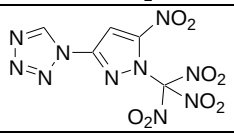
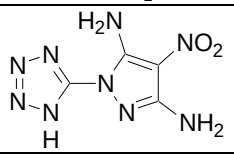
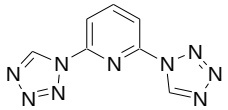
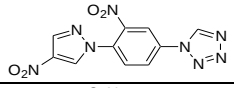
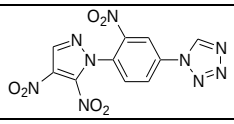
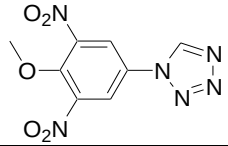
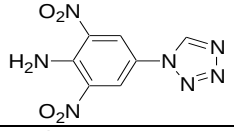
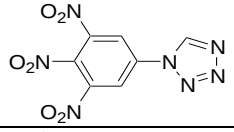
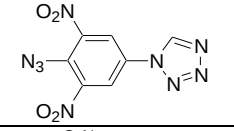
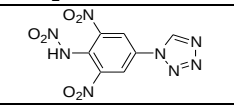
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
287	[92]		7651	5.3	6688	-8.4	7097	-2.1	7075	-2.4	7128	-1.7	7247
288	[92]		7384	1.6	6688	-8.7	6849	-6.1	6900	-5.3	6955	-4.5	7268
289	[92]		7484	0.7	6688	-11.1	6977	-6.5	6995	-6.2	7036	-5.6	7432
290	[92]		7517	1	6688	-11.3	7006	-6.2	7015	-6.1	7056	-5.5	7442
291	[92]		7465	4.3	6496	-9.9	6626	-7.8	6771	-5.5	6840	-4.4	7142
292	[92]		7860	0.6	7338	-6.5	7104	-10	7239	-7.9	7385	-5.8	7812
293	[92]		7522	5	7279	-8.5	7051	-12	7192	-9.8	7261	-8.8	7899
294	[92]		8026	2.2	8121	-1	7816	-4.9	7917	-3.6	7970	-2.9	8202
295	[92]		8479	2.1	7988	-3.9	7989	-3.9	8022	-3.4	8120	-2.2	8298
296	[92]		7937	2.6	8027	3.7	7395	-4.6	7677	-0.7	7759	0.3	7734
301	[94]		8304	2	8123	-0.1	7808	-4.2	7864	-3.4	8025	-1.4	8135
302	[94]		7801	1.3	7719	0.2	7392	-4.2	7441	-3.5	7588	-1.5	7700
303	[94]		8170	4.1	8059	2.7	7309	-7.2	7567	-3.6	7776	-0.8	7838
304	[94]		7624	3.8	7439	1.4	6832	-7.4	7078	-3.6	7243	-1.3	7336
305	[95]		8695	2.9	7919	-6.6	7541	-12	7855	-7.5	8002	-5.5	8445
306	[95]		8469	9.3	7700	0.2	7135	-7.7	7496	-2.5	7700	0.2	7685

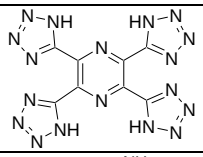
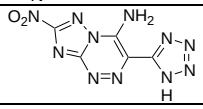
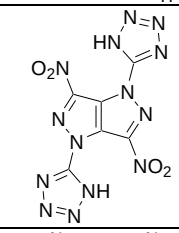
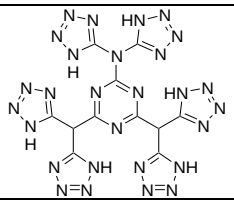
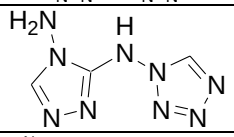
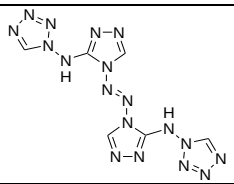
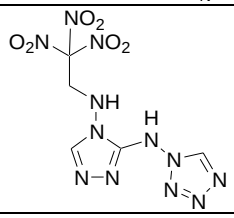
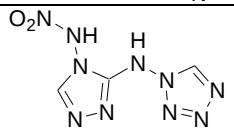
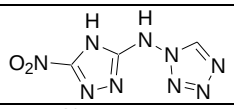
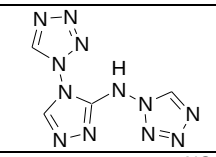
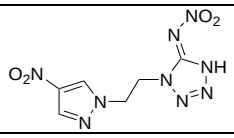
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
307	[95]		8326	6.5	6730	-15.6	6971	-11.6	7136	-9	7291	-6.7	7781
308	[95]		7912	7.2	6358	-33.4	6891	-23.1	7137	-18.8	7074	-19.9	8482
309	[95]		7612	0.4	8220	7.1	6980	-9.5	7509	-1.7	7580	-0.8	7640
310	[95]		8415	0.7	9053	6.4	7486	-13.2	8118	-4.4	8268	-2.5	8477
311	[95]		8622	3.5	7645	-8.9	7451	-11.7	7785	-6.9	7876	-5.7	8323
312	[95]		7687	1.1	7951	2.2	7140	-8.9	7590	-2.4	7592	-2.4	7774
313	[95]		7853	7.7	7693	-9.9	7180	-17.8	7645	-10.6	7593	-11.4	8458
314	[95]		10336	2.1	8875	-14	9274	-9.1	9424	-7.3	9477	-6.7	10114
315	[95]		8939	1.2	9602	8	8371	-5.5	8797	-0.4	8927	1.1	8830
316	[95]		8676	5.6	9005	9.1	8091	-1.2	8200	0.1	8493	3.6	8190
317	[95]		7361	4.5	-	-	6962	-10.5	7657	-0.4	7327	-5	7690
318	[95]		9158	11.9	8130	0.7	7652	-5.5	7799	-3.5	8185	1.4	8070
319	[95]		8385	2.3	8337	1.8	7731	-5.9	7904	-3.6	8089	-1.2	8190

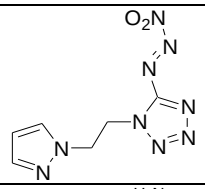
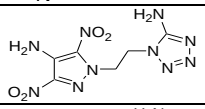
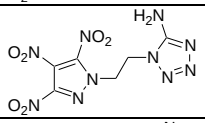
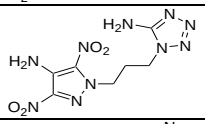
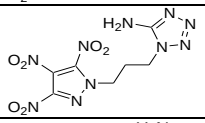
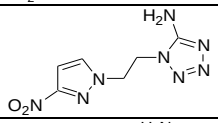
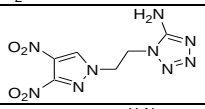
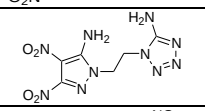
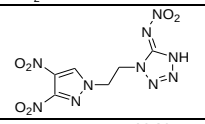
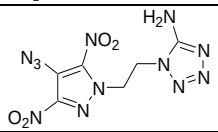
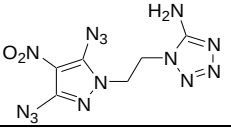
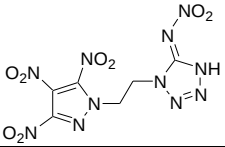
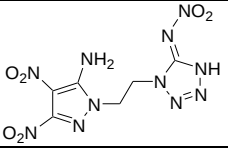
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
320	[95]		10623	18.7	8785	1.7	8283	-4.3	8435	-2.4	9032	4.3	8640
321	[95]		9010	0.9	9202	3	8559	-4.3	8773	-1.8	8886	-0.5	8928
322	[95]		9048	0.9	9202	2.6	8592	-4.3	8801	-1.9	8911	-0.6	8964
323	[95]		9212	4.1	9200	4	8624	-2.4	8763	-0.8	8950	1.3	8834
324	[95]		9165	2	9202	2.4	8600	-4.4	8799	-2	8942	-0.4	8979
325	[95]		9087	1.7	9202	2.9	8554	-4.4	8762	-1.9	8901	-0.3	8932
326	[95]		8687	0.2	9365	7.1	8175	-6.4	8663	-0.5	8722	0.2	8702
327	[96]		9755	3.6	9863	4.7	8674	-8.4	9153	-2.7	9361	-0.4	9400
328	[96]		9743	1.1	9327	-3.3	8797	-9.5	9050	-6.4	9229	-4.4	9631
329	[96]		9564	3.2	9561	3.2	8499	-8.9	9014	-2.7	9160	-1	9256
330	[96]		8803	0.1	8664	-1.5	8415	-4.5	8488	-3.6	8592	-2.3	8792
331	[96]		8232	0.3	8240	-0.2	7908	-4.4	7964	-3.7	8086	-2.1	8257
332	[96]		7885	2.1	7847	-2.6	7671	-5	7680	-4.8	7771	-3.6	8051
333	[96]		8460	1.2	8758	4.6	8035	-4	8201	-1.9	8364	0.1	8356
334	[96]		9306	0.9	9127	-1.1	8900	-3.7	8997	-2.5	9082	-1.6	9226
336	[96]		7695	8.6	6535	-7.6	6493	-8.3	6593	-6.7	6829	-3	7032

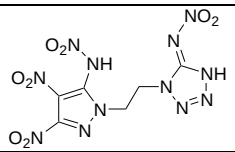
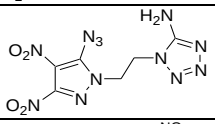
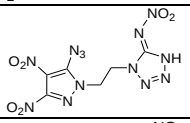
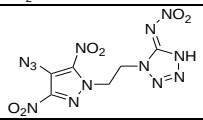
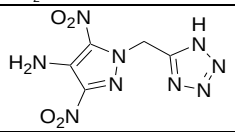
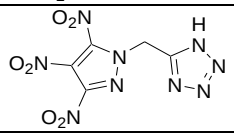
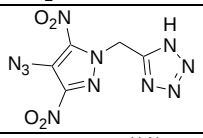
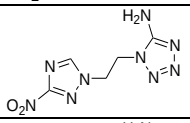
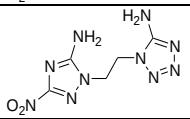
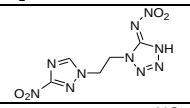
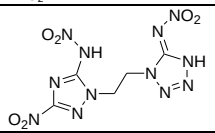
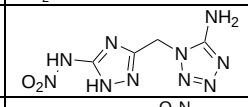
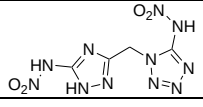
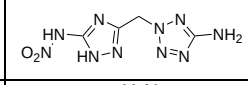
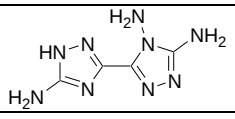
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
337	[96]		7943	9.9	-	-	5902	-21.3	6725	-6.5	6857	-4.4	7160
338	[96]		9757	14.2	9443	11.3	8093	-3.5	8540	1.9	8958	6.5	8376
339	[96]		7542	13.8	-	-	7087	-21.1	7751	-10.7	7460	-15	8580
340	[96]		8340	1.1	8781	6	8230	-0.2	8403	1.8	8438	2.2	8250
341	[96]		9116	4.8	8788	1.3	8561	-1.3	8593	-0.9	8764	1	8674
342	[96]		9859	4	9834	3.8	9443	-0.2	9663	2.1	9700	2.5	9460
343	[96]		8413	5.4	8957	1	8413	-5.4	8626	-2.8	8602	-3	8864
344	[96]		9329	1.9	9933	4.3	9363	-1.5	9594	0.9	9555	0.5	9507
346	[96]		8272	6.2	9345	6	8368	-5	8721	-0.8	8676	-1.3	8787
347	[96]		8086	4.5	-	-	7664	-10.2	8502	0.6	8084	-4.5	8449
350	[96]		8527	8.9	8366	-11	8261	-12.5	8285	-12.1	8360	-11.1	9290
351	[96]		8392	2.7	9344	7.7	8182	-5.4	8678	0.7	8649	0.3	8621
352	[96]		9014	3.2	10102	7.9	9086	-2.4	9517	2.3	9430	1.4	9301
355	[96]		8237	4.2	-	-	7732	-11	8524	-0.7	8164	-5.1	8581

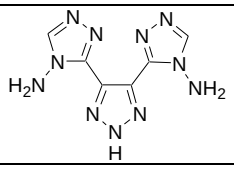
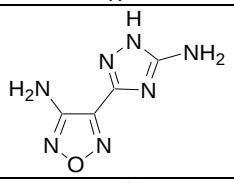
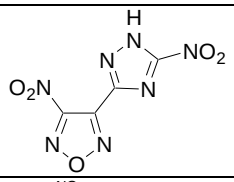
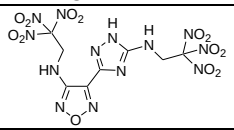
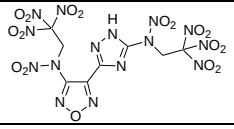
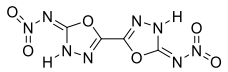
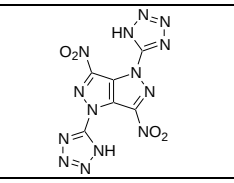
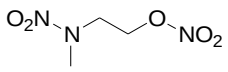
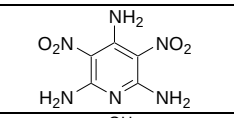
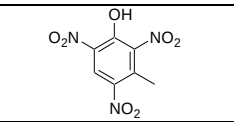
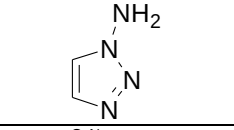
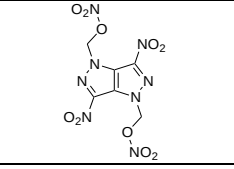
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
356	[96]		9413	7.7	-	-	8028	-8.2	8889	2.2	8777	1	8690
357	[96]		8921	3.5	10187	9.3	8591	-7.5	9255	0.2	9238	0	9236
358	[96]		9494	0.1	9816	3.2	6522	-45.7	7846	-21.1	8420	-12.8	9500
359	[96]		9587	4	-	-	8049	-14.3	8676	-6	8771	-4.9	9200
360	[96]		8574	2.6	9344	5.8	8292	-6.1	8775	-0.3	8746	-0.6	8800
361	[96]		9118	1.3	9062	0.7	8123	-10.8	8379	-7.4	8670	-3.8	8998
363	[96]		8185	5.2	8200	5.3	7349	-5.6	7773	0.1	7877	1.4	7763
364	[96]		8521	2.5	8709	4.6	7685	-8.2	8207	-1.3	8280	-0.4	8312
365	[96]		8669	1.1	8484	-1	7876	-8.8	8104	-5.8	8283	-3.5	8572
366	[96]		8621	2.1	8328	-5.6	8527	-3.2	8430	-4.4	8476	-3.8	8798
367	[96]		6733	26.1	8532	0.5	8130	-4.5	8247	-3	7910	-7.4	8492
368	[96]		7098	24.9	8665	-2.3	8610	-2.9	8622	-2.8	8249	-7.4	8862
370	[98]		8644	2.4	8732	-1.4	8858	0	8880	0.3	8778	-0.9	8855
374	[98]		7511	17.4	8622	-2.3	7910	-11.5	8153	-8.2	8049	-9.6	8821
376	[98]		8134	0.1	7855	-3.6	8042	-1.2	8047	-1.2	8020	-1.5	8140

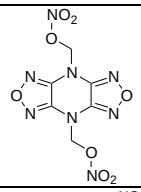
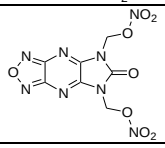
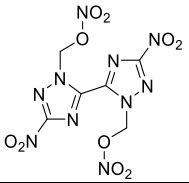
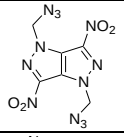
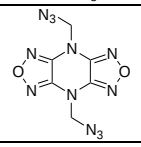
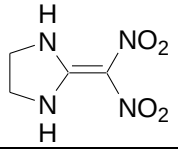
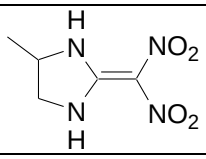
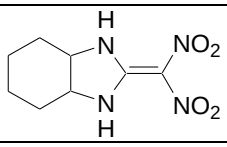
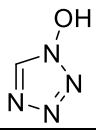
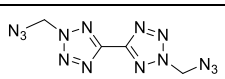
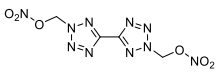
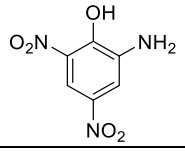
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
377	[99]		6973	10.8	-	-	6223	-24.1	6701	-15.3	6632	-16.5	7725
378	[99]		7146	8.1		-	6741	-14.6	7292	-5.9	7060	-9.4	7724
379	[99]		9124	2.9	9554	7.3	8641	-2.5	8898	0.4	9054	2.1	8860
380	[99]		9005	2.5	9554	8.1	8566	-2.5	8834	0.6	8990	2.3	8780
381	[99]		7724	6.9	8209	-0.6	6410	-28.8	7360	-12.2	7426	-11.2	8257
382	[99]		7504	5.1	-	-	6188	-15.1	6707	-6.2	6800	-4.7	7120
383	[99]		7465	4.3	6496	-9.9	6626	-7.8	6771	-5.5	6840	-4.4	7142
384	[99]		7860	0.6	7338	-6.5	7104	-10	7239	-7.9	7385	-5.8	7812
385	[99]		7651	4.9	6859	-6.1	7097	-2.5	7075	-2.8	7170	-1.5	7274
386	[99]		7522	5	7279	-8.5	7051	-12	7192	-9.8	7261	-8.8	7899
387	[99]		8479	2.1	7988	-3.9	7989	-3.9	8022	-3.4	8120	-2.2	8298
388	[99]		7937	2.6	8027	3.7	7395	-4.6	7677	-0.7	7759	0.3	7734
389	[99]		8026	2.3	8121	-1.1	7816	-5	7917	-3.7	7970	-3	8208

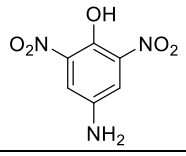
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
390	[99]		8856	2.3	-	-	7518	-15.1	8191	-5.7	8188	-5.7	8655
391	[99]		8700	3.6	8709	-3.5	7783	-15.8	8293	-8.6	8371	-7.6	9010
392	[99]		9004	3.1	9365	6.9	8061	-8.2	8561	-1.9	8748	0.3	8721
393	[99]		8865	16.2	-	-	7280	-2.1	8065	7.9	8070	7.9	7430
396	[99]		7591	15.8	-	-	7632	-15.2	8236	-6.7	7820	-12.4	8789
397	[99]		8378	2.6	-	-	7669	-12.1	8357	-2.9	8135	-5.7	8599
398	[99]		8409	7.1	9346	3.7	8791	-2.4	9032	0.3	8894	-1.2	9004
399	[99]		8310	10	9240	1.1	8591	-6.4	9065	-0.8	8802	-3.9	9141
400	[99]		8117	9.5	9288	4.3	8541	-4	9016	1.5	8740	-1.7	8885
401	[99]		8409	15.3	-	-	7848	-23.5	8514	-13.9	8257	-17.4	9695
402	[99]		7665	2.1	7941	1.5	7337	-6.6	7571	-3.3	7628	-2.6	7824

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
403	[99]		7192	2.1	6873	-2.4	6435	-9.4	6895	-2.1	6849	-2.8	7041
404	[99]		7539	4.6	8057	2.1	7277	-8.4	7569	-4.2	7610	-3.7	7889
405	[99]		8138	0.4	8689	6	7817	-4.5	8033	-1.7	8169	0	8172
406	[99]		7278	6.7	7503	-3.5	7069	-9.9	7301	-6.4	7288	-6.6	7768
407	[99]		7797	2.1	8205	3	7565	-5.2	7725	-3	7823	-1.7	7959
408	[99]		7013	0.8	6285	-12.5	6330	-11.7	6730	-5.1	6590	-7.3	7072
409	[99]		7458	0.8	7941	5.4	7067	-6.4	7363	-2.1	7457	-0.8	7516
410	[99]		7573	4.1	8057	2.2	7300	-8	7588	-3.9	7630	-3.3	7883
411	[99]		8066	0.6	8689	6.6	7814	-3.8	8031	-1	8150	0.4	8114
412	[99]		8021	2	8660	5.5	7692	-6.4	8051	-1.7	8106	-1	8185
413	[99]		7695	2.9	8334	5	7286	-8.7	7842	-1	7789	-1.6	7917
414	[99]		8253	3.7	9155	6.6	8337	-2.6	8529	-0.3	8568	0.2	8555
415	[99]		7738	8.4	8778	4.4	7990	-5	8201	-2.3	8177	-2.6	8388

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
416	[99]		8287	6.2	9224	4.6	8534	-3.2	8712	-1.1	8689	-1.3	8804
417	[99]		8057	1.6	8660	5.5	7657	-6.9	8024	-2	8100	-1.1	8186
418	[99]		8309	5.3	9209	5	8336	-4.9	8634	-1.3	8622	-1.5	8748
419	[99]		8204	5.5	9209	6	8270	-4.7	8579	-0.9	8566	-1.1	8659
420	[99]		8234	3.8	8582	0.4	7944	-7.6	8188	-4.4	8237	-3.8	8548
421	[99]		8843	0	9144	3.3	8488	-4.2	8690	-1.8	8791	-0.6	8845
422	[99]		8573	1.6	9200	5.4	8194	-6.3	8579	-1.5	8636	-0.8	8707
423	[99]		7410	0.2	7265	-1.8	6690	-10.5	7181	-3	7136	-3.6	7395
424	[99]		7492	4.2	7349	-6.2	6879	-13.5	7390	-5.6	7278	-7.3	7807
425	[99]		7590	6.9	8668	6.4	7534	-7.7	7887	-2.9	7920	-2.4	8113
426	[99]		7758	12	9346	7	7947	-9.3	8299	-4.7	8338	-4.2	8690
427	[99]		7611	7.6	8236	0.6	7406	-10.5	7929	-3.3	7796	-5	8187
428	[99]		8222	6.4	9388	6.8	7847	-11.5	8356	-4.7	8453	-3.5	8750
429	[99]		7644	7.4	8236	0.3	7411	-10.8	7937	-3.5	7807	-5.2	8213
430	[100]		7006	11.6	-	-	6392	-22.3	7191	-8.7	6863	-13.9	7818

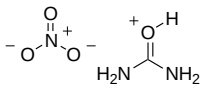
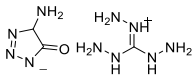
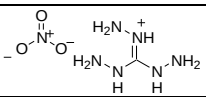
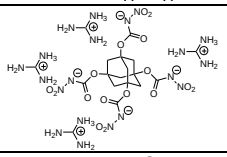
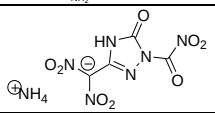
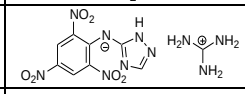
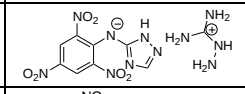
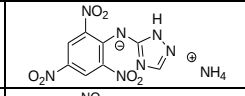
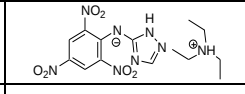
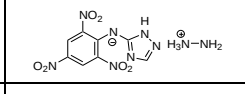
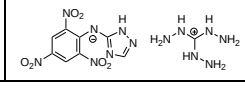
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
431	[100]		7266	7.4	-	-	6508	-19.9	7128	-9.5	6967	-12	7806
432	[101]		6986	2	5873	-16.6	6656	-2.9	7161	4.4	6669	-2.7	6846
433	[101]		8837	3.6	9321	1.8	8668	-5.6	8907	-2.8	8933	-2.5	9152
434	[101]		8849	2.7	9135	0.5	8962	-1.4	8980	-1.2	8982	-1.2	9087
435	[101]		10100	7.4	9560	2.1	9383	0.3	9455	1.1	9624	2.8	9355
453	[102]		8765	7.9	8566	-10.4	8790	-7.6	9006	-5	8782	-7.7	9457
454	[103]		9004	3.1	9365	6.9	8061	-8.2	8561	-1.9	8748	0.3	8721
460	[26]		7414	8.6	7345	-9.6	7676	-4.9	7536	-6.8	7493	-7.4	8050
461	[38]		7350	5.4	7663	-1.1	7393	-4.8	7488	-3.5	7474	-3.7	7749
462	[38]		7242	6.6	6987	3.2	7558	10.5	7385	8.4	7293	7.3	6763
463	[24]		6697	16	-	-	6268	-23.9	6882	-12.9	6616	-17.4	7767
465	[105]		9116	4.8	8788	1.3	8561	-1.3	8593	-0.9	8764	1	8674

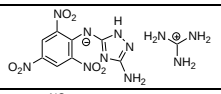
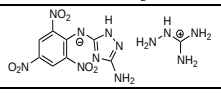
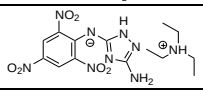
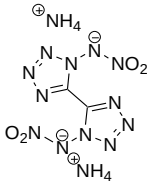
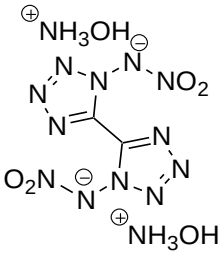
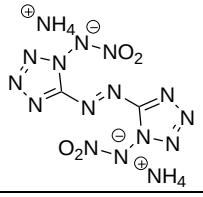
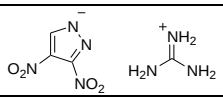
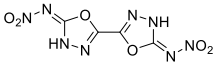
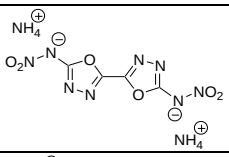
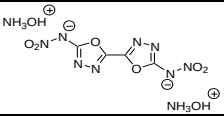
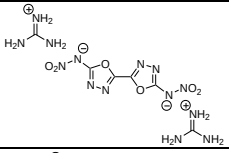
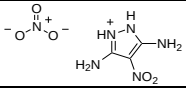
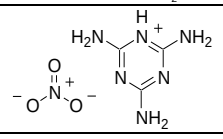
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
466	[105]		8980	3.5	8546	-1.4	8449	-2.6	8493	-2.1	8617	-0.6	8669
467	[105]		8979	10.3	7994	-0.8	7746	-4	7860	-2.5	8145	1.1	8057
468	[105]		9281	6.9	9065	4.7	8460	-2.1	8604	-0.4	8852	2.4	8639
469	[105]		8324	0.4	8868	6.5	7816	-6.1	8209	-1	8304	0.1	8292
470	[105]		8017	3.8	8304	-0.2	7484	-11.2	7971	-4.4	7944	-4.8	8323
471	[47]		7278	15.3	7097	-18.3	7566	-10.9	7483	-12.2	7356	-14.1	8394
472	[47]		6867	12.4	6292	-22.7	7225	-6.9	7087	-8.9	6868	-12.4	7720
473	[47]		6097	18.9	4706	-54.1	6387	-13.5	6239	-16.2	5857	-23.8	7251
474	[106]		7840	7.2	8682	3.2	7977	-5.4	8516	1.3	8254	-1.8	8405
478	[107]		8073	1	-	-	7444	-9.6	8238	1	7918	-3	8155
479	[107]		8693	3.6	9054	7.5	8152	-2.8	8496	1.4	8599	2.6	8377
480	[108]		7209	9.1	6451	-1.6	6726	2.6	6635	1.2	6755	3	6553

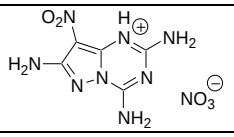
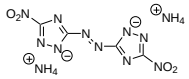
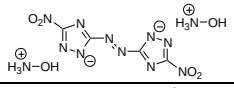
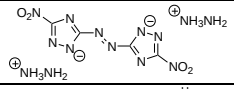
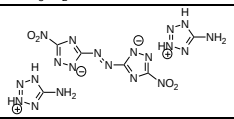
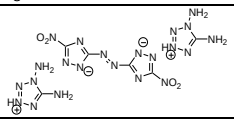
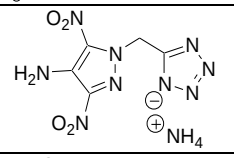
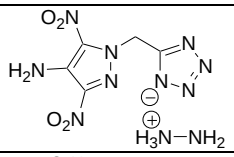
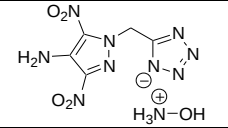
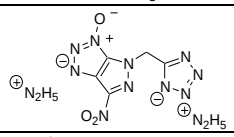
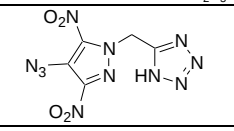
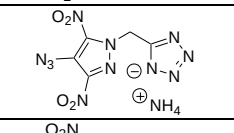
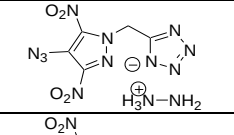
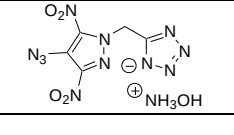
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
481	[109]		7488	0.4	6451	-15.6	7465	0.1	7179	-3.9	7146	-4.4	7458

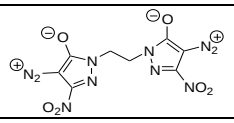
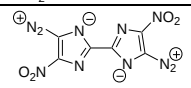
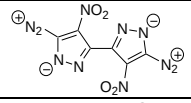
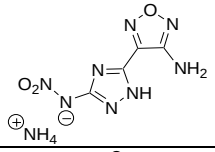
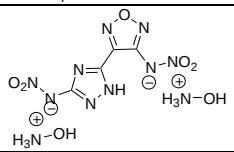
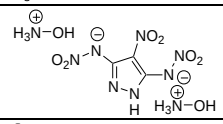
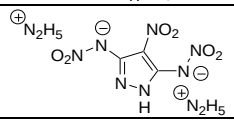
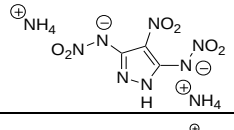
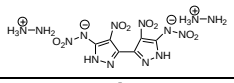
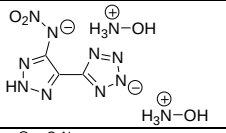
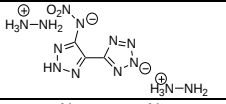
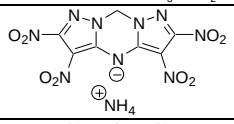
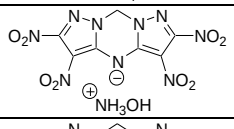
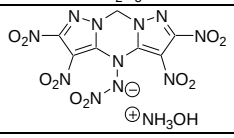
2.2.3 The detonation velocities of ionic compound

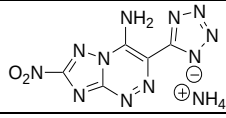
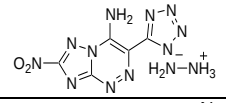
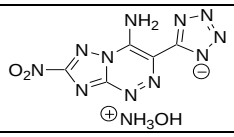
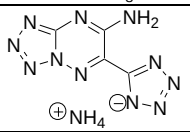
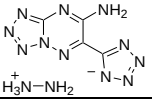
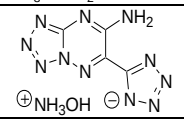
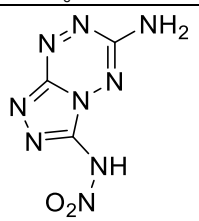
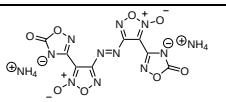
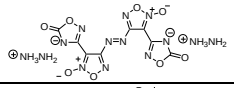
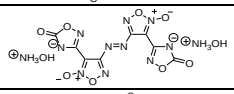
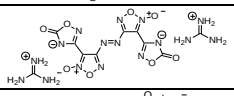
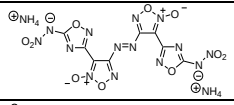
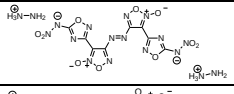
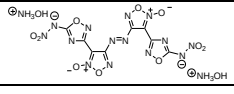
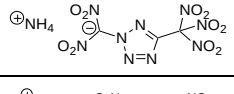
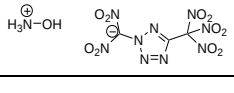
Table 33. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the ionic compounds.

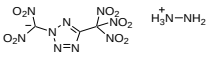
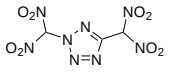
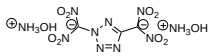
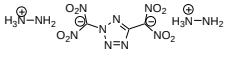
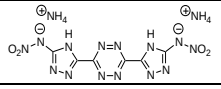
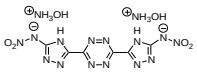
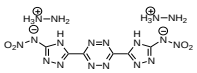
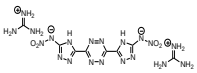
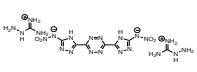
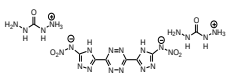
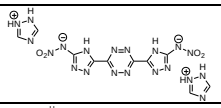
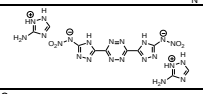
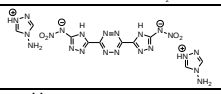
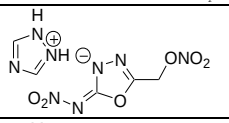
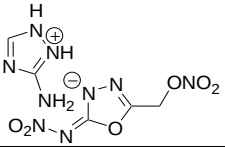
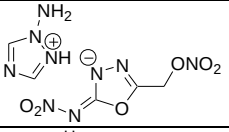
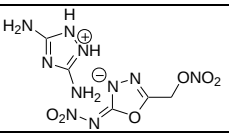
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
50	[43]		7705	-3.3	8428	5.6	7218	-10.3	7777	-2.3	7782	-2.3	7958
52	[45]		5928	-60.1	-	-	7715	-23	8102	-17.2	6342	-49.7	9492
53	[38]		6364	-39.7	8827	-0.7	7487	-18.8	8013	-11	7673	-15.9	8893
76	[49]		3538	-92.5	6836	0.4	6308	-7.9	6589	-3.3	5900	-15.4	6809
93	[52]		8306	-0.6	8573	2.5	8225	-1.6	8370	0.1	8369	0.1	8359
99	[55]		6680	-12.9	7482	-0.8	6988	-7.9	7140	-5.6	7072	-6.7	7543
100	[55]		6849	-21.2	7610	-9.1	7499	-10.7	7554	-9.9	7378	-12.5	8302
101	[55]		8064	-4.2	7486	-12.2	7729	-8.7	7651	-9.8	7732	-8.6	8400
102	[55]		5734	-21	5337	-30	6036	-14.9	6033	-15	5785	-19.9	6937
103	[55]		6913	-10.5	7630	-0.1	7233	-5.6	7339	-4.1	7279	-5	7640
104	[55]		5911	-28.5	7837	3.1	7086	-7.2	7316	-3.8	7038	-7.9	7597

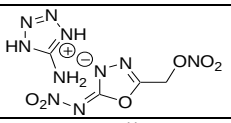
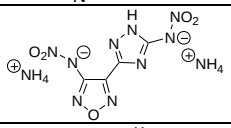
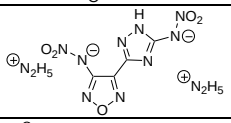
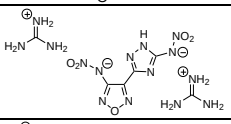
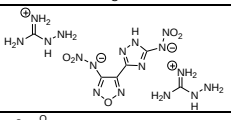
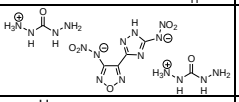
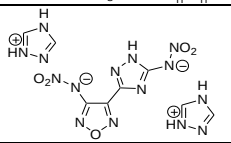
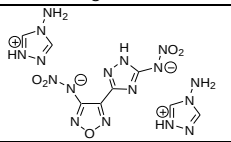
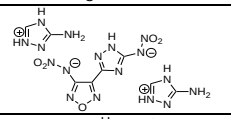
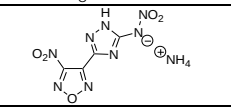
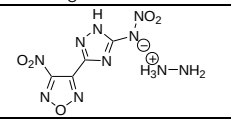
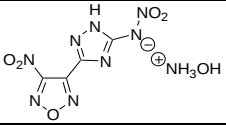
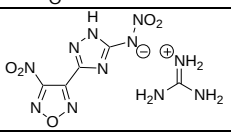
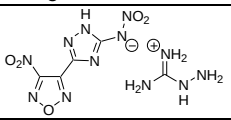
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
106	[55]		6281	-14.8	7610	5.3	6734	-7.1	6998	-3	6906	-4.4	7209
107	[55]		6277	-22	7728	0.9	7051	-8.6	7264	-5.4	7080	-8.1	7657
108	[55]		5704	-19.2	5530	-23	5949	-14.3	6030	-12.8	5803	-17.2	6802
110	[56]		9497	-0.2	10312	7.7	8173	-16.5	8900	-7	9220	-3.2	9519
111	[56]		9372	-5.5	10556	6.4	9399	-5.2	9778	-1.1	9776	-1.1	9885
112	[56]		9442	-0.3	10504	9.8	8778	-7.9	9361	-1.2	9521	0.5	9472
122	[37]		7013	-19.3	8283	-1	7290	-14.8	7560	-10.7	7536	-11.1	8369
123	[58]		8731	-7.5	8566	-9.6	8941	-5	9130	-2.8	8842	-6.2	9388
124	[58]		9685	4.7	8653	-6.6	8467	-9	8698	-6.1	8876	-3.9	9225
125	[58]		9231	0.5	8968	-2.4	8953	-2.6	9042	-1.6	9048	-1.5	9186
126	[58]		7315	-9.7	8386	4.3	7489	-7.2	7931	-1.2	7780	-3.2	8027
133	[62]		7398	-13.8	8818	4.5	8174	-3	8290	-1.6	8170	-3.1	8420
134	[62]		6916	-7.8	8386	11.1	6763	-10.2	7406	-0.7	7368	-1.2	7455

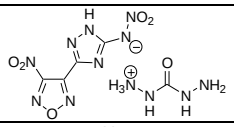
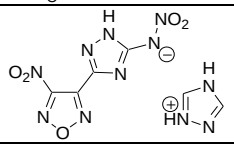
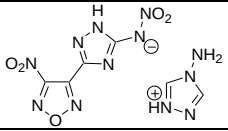
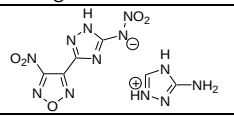
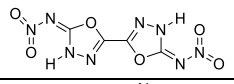
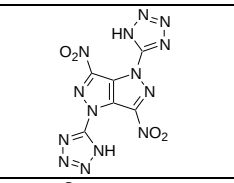
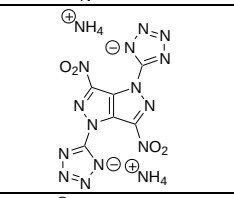
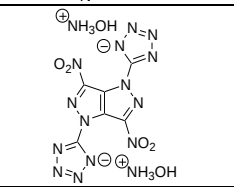
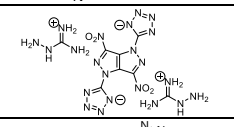
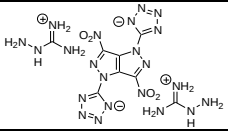
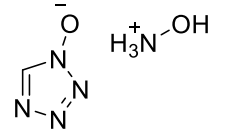
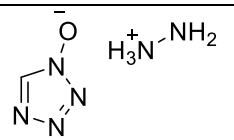
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
135	[62]		7758	-8.2	8634	2.8	7776	-7.9	8011	-4.7	8045	-4.3	8391
157	[66]		8851	2.1	9200	5.8	7984	-8.5	8405	-3.1	8610	-0.6	8665
158	[66]		8767	-1	9558	7.3	8402	-5.4	8715	-1.6	8860	0	8857
159	[66]		8065	-13	9287	1.9	8359	-9	8749	-4.2	8615	-5.8	9114
160	[66]		7995	-2.9	9525	13.6	7862	-4.6	8448	2.6	8458	2.7	8226
161	[66]		8381	-3.8	9565	9	7826	-11.2	8494	-2.4	8566	-1.6	8702
175	[69]		7998	-1.9	8433	3.3	7614	-7.1	7900	-3.2	7986	-2.1	8153
176	[69]		7458	-10.8	8521	3	7696	-7.4	7992	-3.4	7917	-4.4	8264
177	[69]		8096	-6.1	8696	1.2	8118	-5.8	8293	-3.6	8301	-3.5	8592
178	[69]		7755	-13.2	8342	-5.2	7914	-10.9	8269	-6.2	8070	-8.8	8778
179	[69]		8573	-1.6	9200	5.4	8194	-6.3	8579	-1.5	8636	-0.8	8707
180	[69]		8223	0.7	9028	9.5	7740	-5.5	8150	-0.2	8285	1.4	8167
181	[69]		8077	-7	9081	4.9	8137	-6.2	8503	-1.6	8450	-2.2	8640
182	[69]		8526	-2.6	9210	5	8354	-4.7	8652	-1.1	8686	-0.7	8747

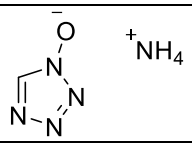
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
185	[70]		8072	3.3	8180	4.6	7352	-6.1	7599	-2.7	7801	0	7803
195	[72]		8681	0.3	8964	3.5	7927	-9.2	8344	-3.7	8479	-2.1	8653
196	[72]		8754	-2.2	8964	0.2	8189	-9.2	8580	-4.2	8622	-3.7	8943
202	[73]		7787	-4.4	8386	3.1	7494	-8.5	7872	-3.3	7885	-3.1	8130
203	[73]		8032	-13.7	9478	3.6	8286	-10.2	8505	-7.4	8575	-6.5	9135
204	[74]		8603	-9.2	9719	3.3	9368	-0.3	9370	-0.3	9265	-1.4	9394
205	[74]		7847	-22.1	9570	-0.1	9061	-5.7	9198	-4.2	8919	-7.4	9581
206	[74]		8569	-3.2	9451	6.4	8479	-4.3	8666	-2	8791	-0.6	8842
207	[74]		7709	-18.3	9139	0.2	8654	-5.4	8765	-4	8567	-6.4	9118
208	[74]		8414	-10.3	9342	0.6	8591	-8	8900	-4.3	8812	-5.3	9282
209	[74]		7429	-21.4	8285	-8.9	8006	-12.7	8524	-5.8	7986	-13	9022
213	[75]		8815	3.4	8642	1.4	8218	-3.7	8296	-2.7	8493	-0.3	8518
214	[75]		8802	-1	8759	-1.5	8549	-4	8572	-3.7	8670	-2.6	8893
215	[75]		8373	-3.8	8732	0.5	8384	-3.6	8460	-2.7	8487	-2.4	8690
218	[75]		9185	1.6	9183	1.6	8894	-1.6	8960	-0.8	9056	0.2	9034

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
233	[80]		8786	-0.1	8292	-6	7565	-16.2	8091	-8.7	8184	-7.4	8793
234	[80]		8466	-5.7	8309	-7.7	7932	-12.8	8403	-6.5	8278	-8.1	8950
235	[80]		8804	-4.7	8761	-5.2	8064	-14.3	8457	-9	8522	-8.2	9220
236	[80]		8448	1.6	-	-	7117	-16.8	7909	-5.1	7825	-6.2	8313
237	[80]		8055	-7.7	-	-	7432	-16.8	8161	-6.3	7883	-10.1	8679
238	[80]		8392	-2.7	7414	-16.2	7576	-13.8	8242	-4.6	6221	-38.5	8618
239	[81]		8293	-5.7	9288	5.7	8175	-7.2	8694	-0.8	8612	-1.8	8763
246	[84]		8798	6.4	7946	-3.6	7647	-7.7	7647	-7.7	8058	-2.2	8234
247	[84]		8151	-3.7	8700	2.8	8099	-4.4	8255	-2.4	8301	-1.8	8453
248	[84]		8787	3.9	8206	-2.9	8234	-2.6	8326	-1.4	8388	-0.7	8445
249	[84]		7196	-13.3	7892	-3.3	6871	-18.6	7293	-11.8	7313	-11.4	8150
251	[84]		9261	9.8	8997	7.1	8134	-2.7	8386	0.3	8694	3.9	8357
252	[84]		8701	-1.8	9115	2.8	8451	-4.8	8677	-2.1	8736	-1.4	8860
253	[84]		9224	4.1	9137	3.2	8717	-1.5	8895	0.6	8993	1.6	8846
255	[85]		9317	7.5	9678	11	9109	5.4	9332	7.7	9359	7.9	8617
256	[85]		9683	6.5	9450	4.2	9729	6.9	9873	8.3	9762	7.3	9054

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
257	[85]		8926	0.1	9881	9.7	8889	-0.3	9166	2.7	9216	3.2	8920
258	[85]		9515	4.1	9750	6.4	9393	2.9	9587	4.8	9561	4.6	9123
259	[85]		9214	-4.1	10057	4.6	9558	-0.3	9604	0.1	9608	0.2	9590
260	[85]		8272	-11.6	9998	7.7	9167	-0.7	9329	1.1	9192	-0.4	9230
274	[91]		8671	-2.6	8897	0	8145	-9.2	8512	-4.5	8556	-4	8898
275	[91]		8430	-9.9	9244	-0.2	8908	-4	9142	-1.4	8931	-3.8	9267
276	[91]		7702	-19.6	8989	-2.5	8412	-9.5	8765	-5.1	8467	-8.8	9214
277	[91]		7072	-27	8564	-4.8	7848	-14.4	8260	-8.7	7936	-13.1	8978
278	[91]		6517	-37.5	8660	-3.5	8032	-11.6	8420	-6.4	7907	-13.4	8963
279	[91]		6805	-31.9	9033	0.6	8350	-7.5	8654	-3.7	8210	-9.4	8978
280	[91]		8067	-10.6	8375	-6.6	8002	-11.5	8330	-7.1	8194	-8.9	8925
281	[91]		7606	-18	8479	-5.9	8122	-10.5	8461	-6.1	8167	-9.9	8976
282	[91]		8175	-9.7	8479	-5.7	7934	-13	8309	-7.9	8224	-9	8966
371	[98]		8172	-5.6	8237	-4.8	7815	-10.4	7988	-8	8053	-7.2	8630
372	[98]		7614	-14.6	8361	-4.4	8584	-1.6	8651	-0.9	8302	-5.1	8725
373	[98]		7946	-11.7	8518	-4.2	8732	-1.7	8781	-1.1	8494	-4.5	8877
374	[98]		7511	-17.4	8622	-2.3	7910	-11.5	8153	-8.2	8049	-9.6	8821

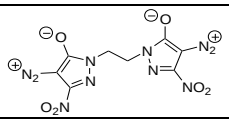
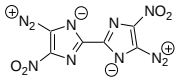
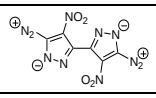
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375	[98]		7929	-15.3	9166	0.3	8990	-1.7	9162	0.2	8812	-3.7	9142
436	[101]		8861	-0.4	9163	2.9	8274	-7.5	8549	-4.1	8712	-2.1	8897
437	[101]		7947	-13.8	9281	2.5	8716	-3.8	8949	-1.1	8723	-3.7	9045
438	[101]		6635	-19.7	8748	9.2	7260	-9.4	7740	-2.6	7596	-4.6	7942
439			6301	-34.2	8872	4.7	7723	-9.5	8109	-4.3	7751	-9.1	8455
440	[101]		6517	-25.2	9198	11.3	8000	-2	8300	1.7	8004	-1.9	8159
441			7905	-5.5	8466	1.5	7763	-7.4	8055	-3.6	8047	-3.7	8341
442	[101]		7945	-8.8	8604	-0.4	7934	-8.9	8233	-5	8179	-5.7	8642
443	[101]		7405	-13.1	8604	2.7	7640	-9.6	8006	-4.6	7914	-5.8	8373
444	[101]		8748	0.4	8998	3.1	8371	-4.1	8610	-1.2	8682	-0.4	8716
445	[101]		8384	-8.1	9297	2.5	8677	-4.4	8892	-1.9	8812	-2.8	9060
446	[101]		8695	-3	9383	4.6	8747	-2.4	8913	-0.5	8934	-0.2	8954
447	[101]		7419	-7.7	8964	10.9	7576	-5.5	7951	-0.5	7978	-0.2	7990
448	[101]		7202	-13.7	9033	9.4	7771	-5.4	8120	-0.8	8032	-1.9	8187

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
449	[101]		7319	-12.8	9196	10.2	7932	-4.1	8238	-0.2	8171	-1	8256
450	[101]		8008	-2.4	8778	6.6	7773	-5.5	8084	-1.4	8161	-0.4	8197
451	[101]		8157	-3.3	8853	4.8	7962	-5.8	8261	-2	8308	-1.4	8424
452	[101]		7795	-4.6	8853	7.9	7697	-5.9	8048	-1.3	8098	-0.7	8151
453	[102]		8765	-7.9	8566	-10.4	8790	-7.6	9006	-5	8782	-7.7	9457
454	[103]		9004	3.1	9365	6.9	8061	-8.2	8561	-1.9	8748	0.3	8721
455	[103]		9167	8.3	9072	7.4	7682	-9.4	8171	-2.9	8523	1.4	8404
456	[103]		8545	3.6	9369	12.1	7853	-4.9	8262	0.3	8507	3.2	8237
457	[103]		7316	-24.1	8793	-3.3	7746	-17.2	8223	-10.4	8020	-13.2	9082
458	[103]		6981	-20.3	8793	4.5	7344	-14.3	7893	-6.4	7753	-8.3	8396
475	[106]		7869	-18	8814	-5.3	7818	-18.8	8333	-11.4	8208	-13.1	9284
476	[106]		7343	-28.5	6198	-52.3	7838	-20.4	8394	-12.4	7443	-26.8	9437

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
477	[106]		7646	-4.8	6287	-27.5	7683	-4.3	8207	2.4	7456	-7.5	8013

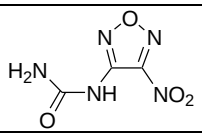
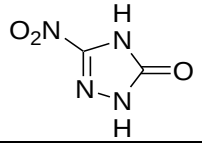
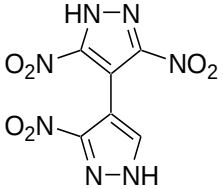
2.2.4 The detonation velocities of zwitterionic compounds

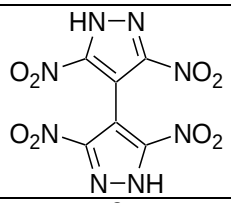
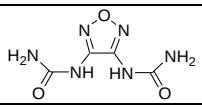
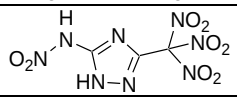
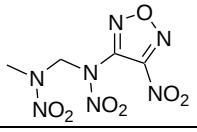
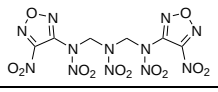
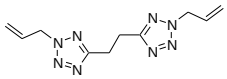
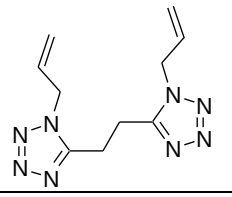
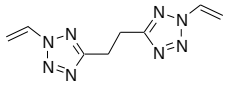
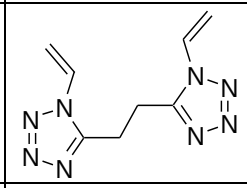
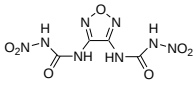
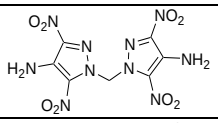
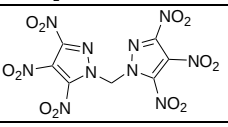
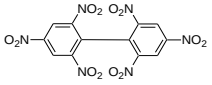
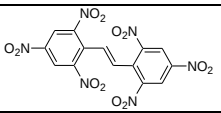
Table 34. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the zwitterionic compounds.

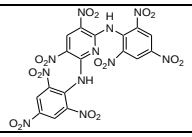
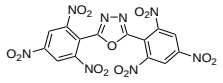
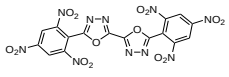
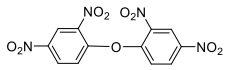
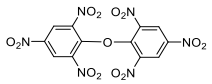
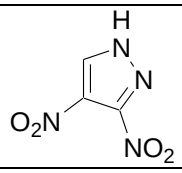
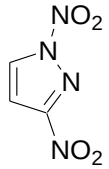
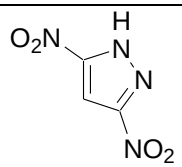
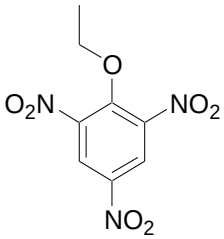
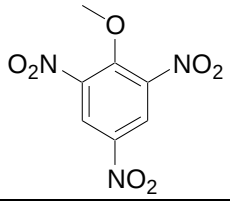
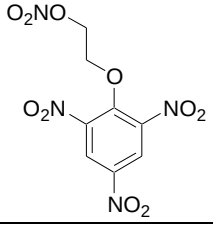
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
185	[70]		8072	-3.4	8180	-4.8	7352	5.8	7599	2.6	7801	0	7803
195	[72]		8681	-0.3	8964	-3.6	7927	8.4	8344	3.6	8479	2	8653
196	[72]		8754	2.1	8964	-0.2	8189	8.4	8580	4.1	8622	3.6	8943

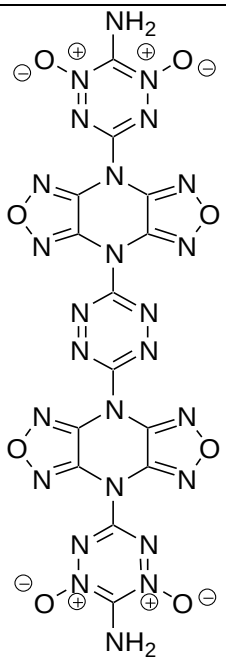
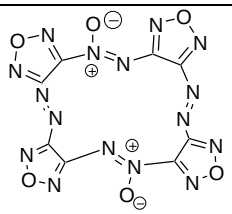
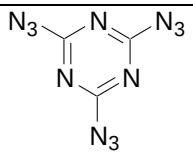
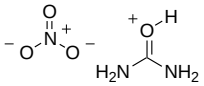
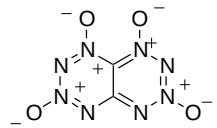
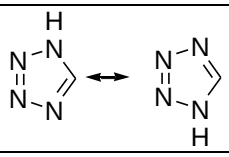
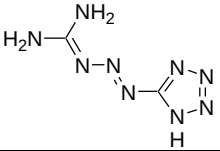
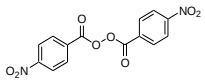
2.2.5 The detonation velocities of aromatic compounds

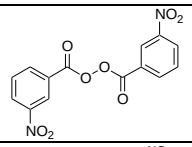
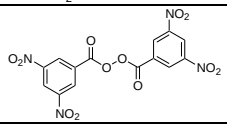
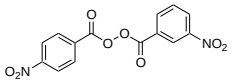
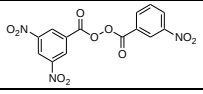
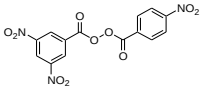
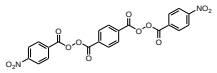
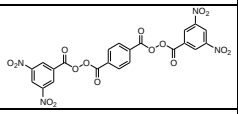
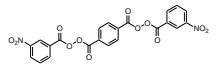
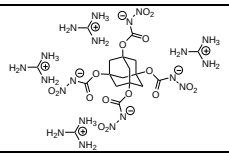
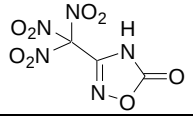
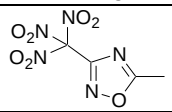
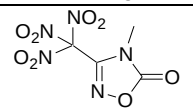
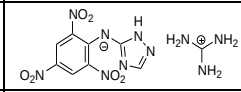
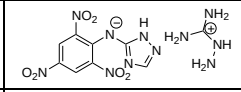
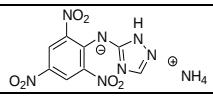
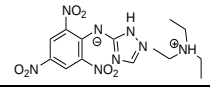
Table 35. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the aromatic compounds.

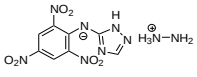
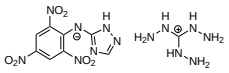
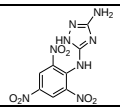
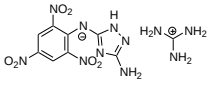
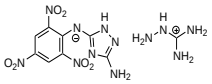
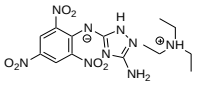
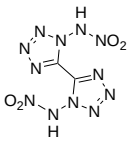
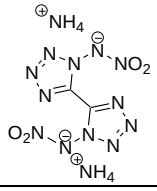
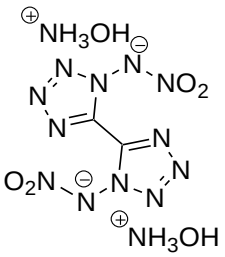
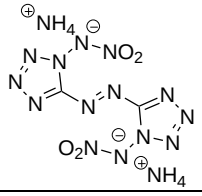
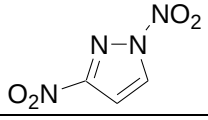
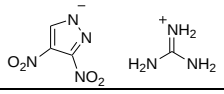
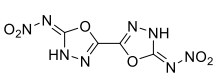
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
4	[25]		7511	-3.3	8516	8.9	7751	-0.1	7979	2.8	7939	2.3	7759
5	[23] [26]		8327	-2.6	8753	2.4	8081	-5.7	8396	-1.8	8389	-1.8	8543
6	[27]		8228	-0.3	8365	1.3	8019	-3	7997	-3.2	8123	-1.6	8256

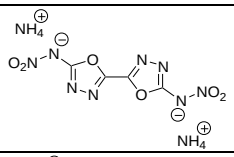
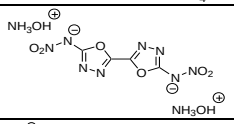
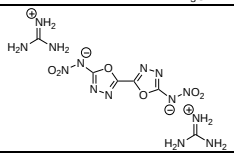
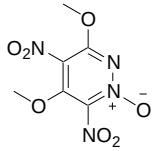
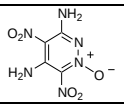
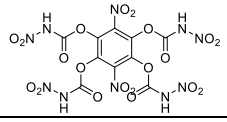
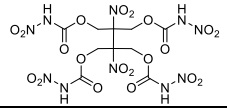
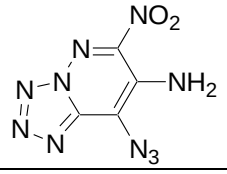
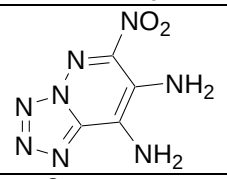
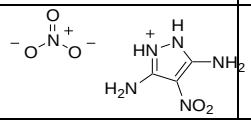
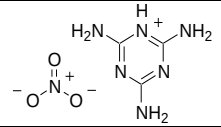
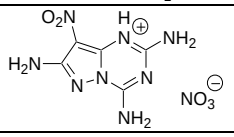
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
7	[27]		8394	-1.5	8908	4.4	8232	-3.5	8379	-1.7	8478	-0.5	8520
8	[25]		7547	-9.8	6885	-20.3	7281	-13.8	7590	-9.1	7326	-13.1	8283
9	[28]		8920	-3.7	9750	5.1	9397	1.6	9580	3.4	9409	1.7	9250
10	[29]		8433	-1.9	9184	6.4	8579	-0.2	8644	0.6	8710	1.3	8596
11	[29]		9912	5.8	9600	2.8	9248	-0.9	9364	0.3	9531	2.1	9334
12	[30]		5408	-13.7	-	-	4514	-36.2	5243	-17.3	5055	-21.6	6148
13	[30]		5408	-14	-	-	4535	-36	5257	-17.3	5067	-21.7	6167
14	[30]		6310	-12.7	-	-	5284	-34.5	5843	-21.7	5812	-22.3	7109
15	[30]		6310	-13	-	-	5296	-34.7	5852	-21.9	5819	-22.6	7132
16	[25]		7901	-9.9	8908	2.5	8487	-2.3	8671	-0.2	8492	-2.3	8685
17	[31]		8223	-1.3	8642	3.6	8016	-3.9	8132	-2.5	8253	-1	8332
18	[31]		9733	4.4	9201	-1.1	9029	-3	9094	-2.3	9264	-0.4	9304
19	[32] [26]		7609	1.4	7314	-2.5	7355	-2	7298	-2.8	7394	-1.4	7500
20	[32]		7369	-3.3	6830	-11.4	7276	-4.6	7116	-7	7148	-6.5	7612

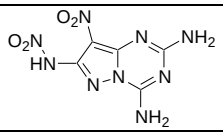
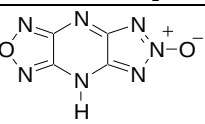
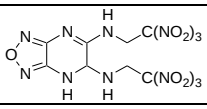
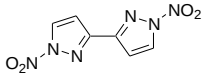
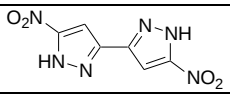
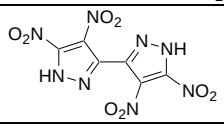
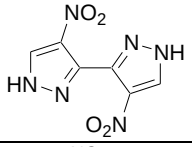
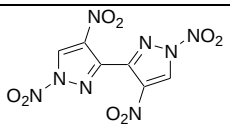
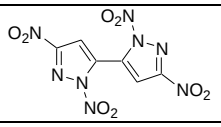
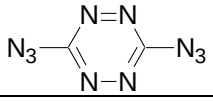
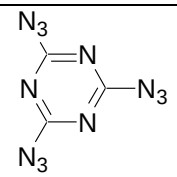
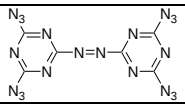
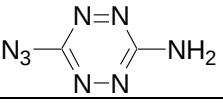
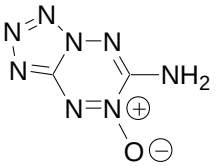
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
21	[32]		7420	-4.5	7462	-4	7421	-4.5	7379	-5.1	7420	-4.5	7757
22	[32] [33]		8083	3	7350	-6.7	7543	-3.9	7478	-4.8	7614	-3	7840
23	[32]		8543	6	7377	-8.9	7547	-6.4	7486	-7.3	7738	-3.8	8030
24	[34]		7290	9.7	6277	-4.9	6827	3.6	6623	0.6	6754	2.5	6582
25	[34]		8201	6.9	7449	-2.5	7794	2.1	7617	-0.2	7765	1.7	7634
36	[37]		8082	-4.3	8824	4.5	8257	-2	8336	-1.1	8375	-0.6	8426
37	[37]		8235	-2.7	8824	4.1	8295	-2	8378	-1	8433	-0.3	8459
38	[37]		8048	-2.9	8824	6.2	8113	-2	8215	-0.8	8300	0.3	8279
39	[26]		6845	4.4	6303	-3.8	6741	2.9	6598	0.8	6622	1.2	6545
40	[38]		7502	6.2	6800	-3.5	7263	3.1	7059	0.3	7156	1.7	7035
41	[38]		7742	3.5	7290	-2.5	7684	2.8	7476	0.1	7548	1	7470

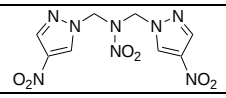
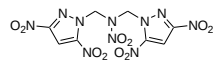
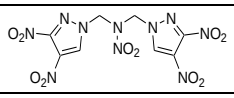
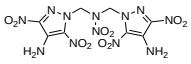
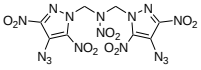
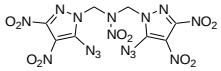
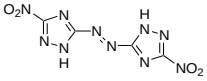
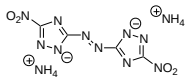
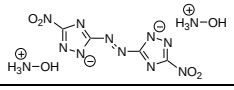
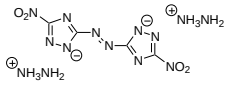
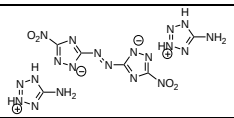
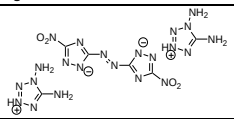
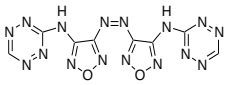
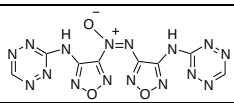
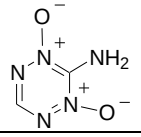
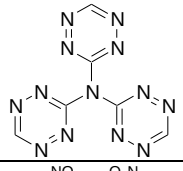
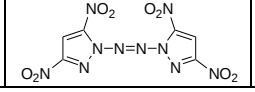
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
42	[38]		10236	15	8854	1.7	8184	-6.3	8559	-1.6	8958	2.9	8700
43	[38] [39]		9368	0	9283	-0.9	8217	-14	8696	-7.7	8891	-5.4	9368
47	[24] [40]		8221	4.3	-	-	7403	-6.3	8458	7	8027	2	7866
50	[43]		7705	-3.3	8428	5.6	7218	-10.3	7777	-2.3	7782	-2.3	7958
57	[46]		9865	5.9	10734	13.5	8751	-6.1	9379	1	9682	4.1	9287
58	[38]		7165	-9.3	-	-	6781	-15.5	7710	-1.6	7219	-8.5	7831
63	[38]		7964	-22.2	-	-	7514	-29.5	8526	-14.1	8001	-21.6	9729
67	[48]		6354	3.5	4197	-46	5752	-6.6	5577	-9.9	5470	-12	6129

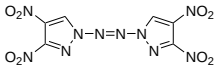
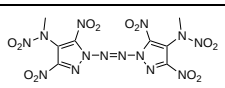
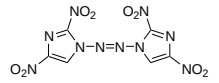
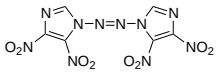
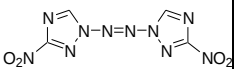
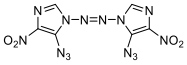
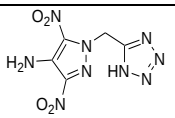
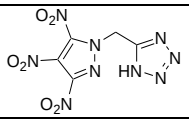
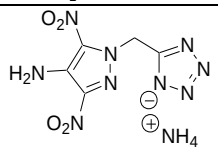
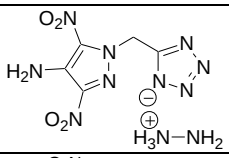
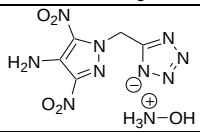
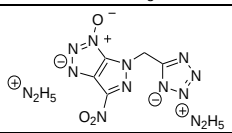
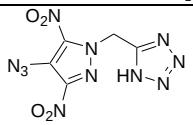
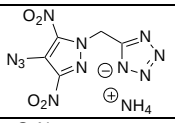
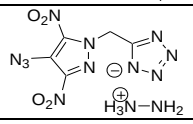
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
68	[48]		6354	3.5	4197	-46.1	5757	-6.5	5582	-9.8	5471	-12	6130
69	[48]		7183	1.3	5893	-20.3	6853	-3.4	6662	-6.4	6648	-6.6	7087
70	[48]		6517	1.9	4197	-52.4	5909	-8.2	5657	-13	5570	-14.8	6395
71	[48]		6863	1	5158	-31.8	6451	-5.3	6219	-9.3	6173	-10.1	6796
72	[48]		6835	1.1	5158	-31	6425	-5.2	6204	-8.9	6156	-9.8	6757
73	[48]		5310	-0.1	3642	-45.9	5179	-2.6	5189	-2.4	4830	-10	5315
74	[48]		5895	-1.9	4929	-21.9	5897	-1.9	5882	-2.1	5651	-6.3	6007
75	[48]		5288	0.1	3642	-45.1	5980	11.6	5910	10.6	5205	-1.5	5284
76	[49]		3538	-92.5	6836	0.4	6308	-7.9	6589	-3.3	5900	-15.4	6809
96	[54]		9158	3.9	8870	0.8	9619	8.5	9658	8.9	9326	5.7	8798
97	[54]		8696	-1	8980	2.2	8686	-1.1	8655	-1.4	8754	-0.3	8779
98	[54]		8655	-1.7	8404	-4.8	8868	0.7	8835	0.4	8690	-1.3	8804
99	[55]		6680	-12.9	7482	-0.8	6988	-7.9	7140	-5.6	7072	-6.7	7543
100	[55]		6849	-21.2	7610	-9.1	7499	-10.7	7554	-9.9	7378	-12.5	8302
101	[55]		8064	-4.2	7486	-12.2	7729	-8.7	7651	-9.8	7732	-8.6	8400
102	[55]		5734	-21	5337	-30	6036	-14.9	6033	-15	5785	-19.9	6937

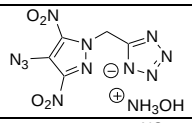
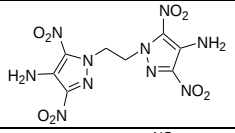
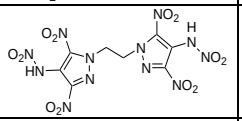
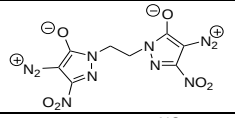
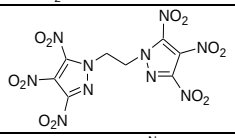
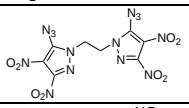
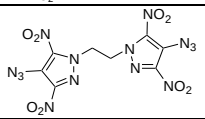
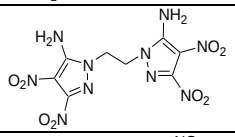
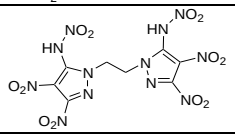
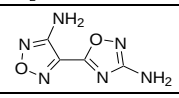
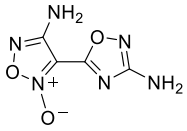
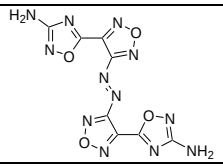
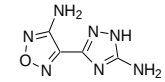
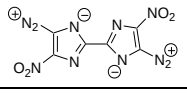
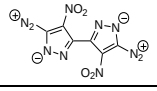
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
103	[55]		**6913**	**-10.5**	**7630**	**-0.1**	**7233**	**-5.6**	**7339**	**-4.1**	**7279**	**-5**	**7640**
104	[55]		**5911**	**-28.5**	**7837**	**3.1**	**7086**	**-7.2**	**7316**	**-3.8**	**7038**	**-7.9**	**7597**
105	[55]		**7579**	**-7.9**	**7635**	**-7.1**	**7540**	**-8.5**	**7554**	**-8.3**	**7577**	**-7.9**	**8178**
106	[55]		**6281**	**-14.8**	**7610**	**5.3**	**6734**	**-7.1**	**6998**	**-3**	**6906**	**-4.4**	**7209**
107	[55]		**6277**	**-22**	**7728**	**0.9**	**7051**	**-8.6**	**7264**	**-5.4**	**7080**	**-8.1**	**7657**
108	[55]		**5704**	**-19.2**	**5530**	**-23**	**5949**	**-14.3**	**6030**	**-12.8**	**5803**	**-17.2**	**6802**
109	[56]		**9428**	**-7.6**	**10855**	**6.6**	**9715**	**-4.4**	**10282**	**1.4**	**10070**	**-0.7**	**10142**
110	[56]		**9497**	**-0.2**	**10312**	**7.7**	**8173**	**-16.5**	**8900**	**-7**	**9220**	**-3.2**	**9519**
111	[56]		**9372**	**-5.5**	**10556**	**6.4**	**9399**	**-5.2**	**9778**	**-1.1**	**9776**	**-1.1**	**9885**
112	[56]		**9442**	**-0.3**	**10504**	**9.8**	**8778**	**-7.9**	**9361**	**-1.2**	**9521**	**0.5**	**9472**
120	[37]		8235	**-2.3**	8824	**4.5**	8295	**-1.6**	8378	**-0.6**	8433	**0.1**	8426
122	[37]		**7013**	**-19.3**	**8283**	**-1**	**7290**	**-14.8**	**7560**	**-10.7**	**7536**	**-11.1**	**8369**
123	[58]		**8731**	**-7.5**	**8566**	**-9.6**	**8941**	**-5**	**9130**	**-2.8**	**8842**	**-6.2**	**9388**

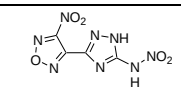
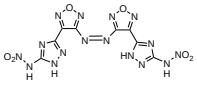
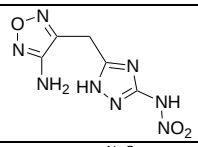
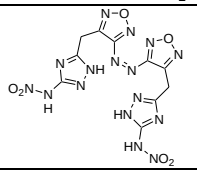
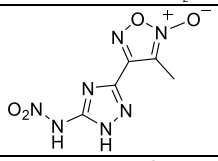
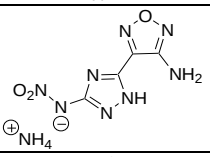
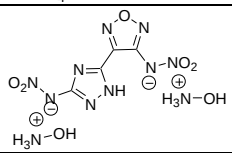
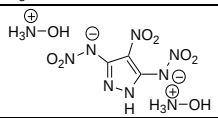
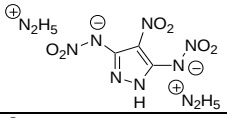
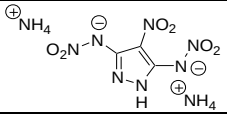
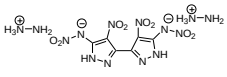
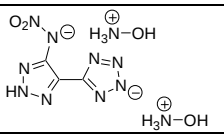
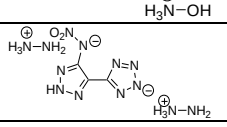
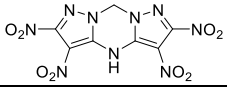
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
124	[58]		9685	4.7	8653	-6.6	8467	-9	8698	-6.1	8876	-3.9	9225
125	[58]		9231	0.5	8968	-2.4	8953	-2.6	9042	-1.6	9048	-1.5	9186
126	[58]		7315	-9.7	8386	4.3	7489	-7.2	7931	-1.2	7780	-3.2	8027
127	[59]		7362	1.8	7213	-0.2	7314	1.2	7240	0.2	7282	0.8	7227
128	[59]		8001	-6.1	8725	2.7	8266	-2.7	8335	-1.8	8332	-1.8	8486
129	[60]		7701	0	8023	4	7629	-1	7806	1.3	7790	1.1	7702
130	[60]		8225	-0.9	7846	-5.8	8293	-0.1	8190	-1.3	8138	-2	8298
131	[61]		8540	-2.4	9212	5.1	8079	-8.3	8608	-1.6	8610	-1.6	8746
132	[61]		8064	-4.6	8179	-3.1	7630	-10.5	8025	-5.1	7974	-5.8	8434
133	[62]		7398	-13.8	8818	4.5	8174	-3	8290	-1.6	8170	-3.1	8420
134	[62]		6916	-7.8	8386	11.1	6763	-10.2	7406	-0.7	7368	-1.2	7455
135	[62]		7758	-8.2	8634	2.8	7776	-7.9	8011	-4.7	8045	-4.3	8391

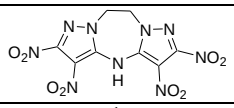
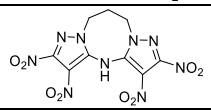
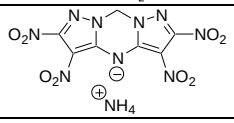
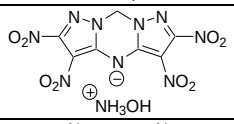
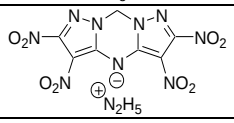
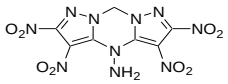
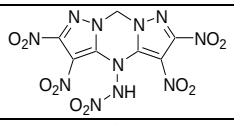
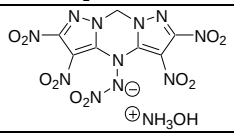
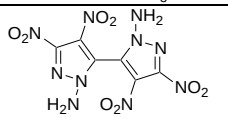
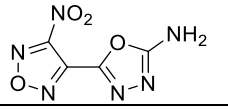
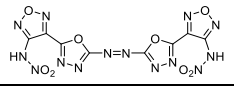
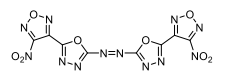
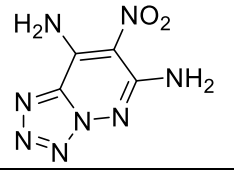
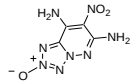
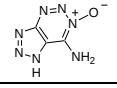
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
136	[62]		8165	-6.7	8582	-1.5	8004	-8.9	8242	-5.7	8248	-5.6	8713
137	[63]		8467	-0.8	8748	2.5	7913	-7.8	8314	-2.6	8360	-2.1	8532
138	[63]		8005	-5	8907	5.6	8430	0.2	8483	0.9	8456	0.6	8409
139	[64]		8320	0.2	7503	-10.6	7718	-7.6	7728	-7.4	7817	-6.2	8301
140	[64]		7794	-3	7503	-7	7425	-8.1	7481	-7.3	7551	-6.3	8026
141	[64]		8464	-1.1	8908	4	8079	-5.9	8251	-3.7	8426	-1.5	8556
142	[64]		7858	-3.3	7503	-8.2	7469	-8.7	7512	-8.1	7586	-7	8120
143	[64]		9037	1.9	8908	0.4	8523	-4.1	8631	-2.8	8775	-1.1	8869
144	[64]		9057	1.4	8908	-0.2	8578	-4.1	8680	-2.8	8806	-1.4	8926
145	[40]		7887	-5.3	-	-	8023	-3.5	8987	7.6	8299	-0.1	8306
146	[40]		8257	-0.6	-	-	7699	-7.9	8680	4.3	8212	-1.2	8308
147	[40]		8282	-0.3	-	-	7691	-8	8582	3.2	8185	-1.5	8306
148	[40]		7728	-9.3	-	-	7664	-10.2	8502	0.6	7965	-6.1	8449
149	[40]		8885	-5	9359	0.4	8550	-9.1	9206	-1.3	9000	-3.6	9326

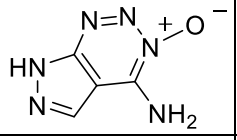
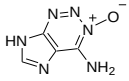
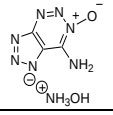
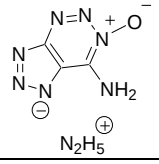
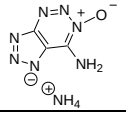
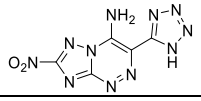
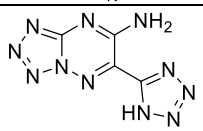
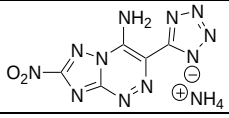
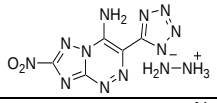
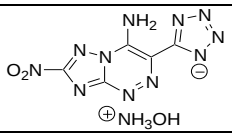
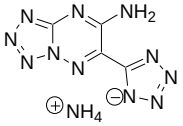
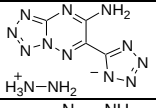
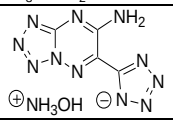
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
150	[65]		7814	-0.7	7486	-5.1	7429	-5.9	7445	-5.7	7544	-4.3	7867
151	[65]		8680	4.9	8583	3.8	8234	-0.3	8273	0.2	8442	2.2	8258
152	[65]		8680	4.8	8583	3.7	8242	-0.3	8280	0.2	8446	2.1	8265
153	[65]		8549	-1.1	8753	1.3	8555	-1	8575	-0.7	8608	-0.4	8639
154	[65]		9265	5.9	9339	6.7	8619	-1.1	8880	1.8	9026	3.4	8717
155	[65]		9265	5.8	9339	6.6	8626	-1.1	8886	1.8	9029	3.4	8724
156	[66]		8702	-2.9	9602	6.8	8421	-6.3	8845	-1.2	8892	-0.7	8952
157	[66]		8851	2.1	9200	5.8	7984	-8.5	8405	-3.1	8610	-0.6	8665
158	[66]		8767	-1	9558	7.3	8402	-5.4	8715	-1.6	8860	0	8857
159	[66]		8065	-13	9287	1.9	8359	-9	8749	-4.2	8615	-5.8	9114
160	[66]		7995	-2.9	9525	13.6	7862	-4.6	8448	2.6	8458	2.7	8226
161	[66]		8381	-3.8	9565	9	7826	-11.2	8494	-2.4	8566	-1.6	8702
162	[67]		8078	0	8373	3.6	7457	-8.3	7996	-1	7976	-1.2	8075
163	[67]		8471	0.8	8644	2.8	7752	-8.4	8223	-2.2	8272	-1.6	8401
164	[67]		8050	-7.3	8799	1.8	8145	-6.1	8466	-2.1	8365	-3.3	8640
165	[67]		8433	1.3	-	-	7415	-12.2	8053	-3.3	7967	-4.5	8322
166	[68]4		9010	7.9	9202	9.8	8559	3	8773	5.4	8886	6.6	8298

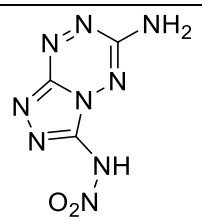
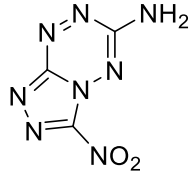
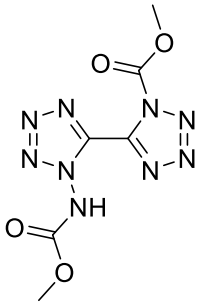
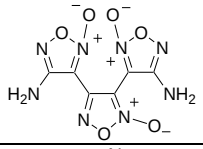
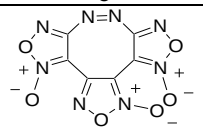
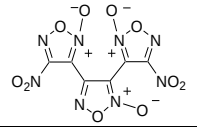
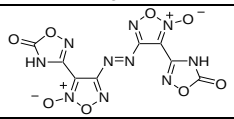
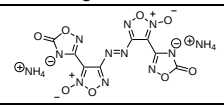
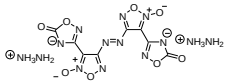
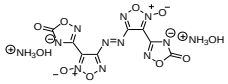
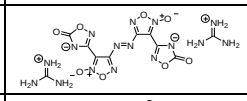
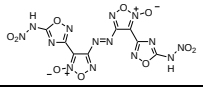
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
167	[68]**5**		**9048**	**0.9**	**9202**	**2.6**	**8592**	**-4.3**	**8801**	**-1.9**	**8911**	**-0.6**	**8964**
168	[68]**6**		**9212**	**4.1**	**9200**	**4**	**8654**	**-2.1**	**8790**	**-0.5**	**8964**	**1.5**	**8834**
169	[68]**7**		**9165**	**2**	**9202**	**2.4**	**8600**	**-4.4**	**8799**	**-2**	**8942**	**-0.4**	**8979**
170	[68]**8**		**9087**	**1.7**	**9202**	**2.9**	**8554**	**-4.4**	**8762**	**-1.9**	**8901**	**-0.3**	**8932**
171	[68]		**8939**	**1.3**	**9602**	**8.1**	**8373**	**-5.4**	**8799**	**-0.3**	**8928**	**1.2**	**8825**
172	[68]		**8687**	**-0.2**	**9365**	**7.1**	**8056**	**-8**	**8557**	**-1.7**	**8666**	**-0.4**	**8702**
173	[69]		**8234**	**-3.8**	**8582**	**0.4**	**7944**	**-7.6**	**8188**	**-4.4**	**8237**	**-3.8**	**8548**
174	[69]		**8843**	**0**	**9144**	**3.3**	**8488**	**-4.2**	**8690**	**-1.8**	**8791**	**-0.6**	**8845**
175	[69]		**7998**	**-1.9**	**8433**	**3.3**	**7614**	**-7.1**	**7900**	**-3.2**	**7986**	**-2.1**	**8153**
176	[69]		**7458**	**-10.8**	**8521**	**3**	**7696**	**-7.4**	**7992**	**-3.4**	**7917**	**-4.4**	**8264**
177	[69]		**8096**	**-6.1**	**8696**	**1.2**	**8118**	**-5.8**	**8293**	**-3.6**	**8301**	**-3.5**	**8592**
178	[69]		**7755**	**-13.2**	**8342**	**-5.2**	**7914**	**-10.9**	**8269**	**-6.2**	**8070**	**-8.8**	**8778**
179	[69]		**8573**	**-1.6**	**9200**	**5.4**	**8194**	**-6.3**	**8579**	**-1.5**	**8636**	**-0.8**	**8707**
180	[69]		**8223**	**0.7**	**9028**	**9.5**	**7740**	**-5.5**	**8150**	**-0.2**	**8285**	**1.4**	**8167**
181	[69]		**8077**	**-7**	**9081**	**4.9**	**8137**	**-6.2**	**8503**	**-1.6**	**8450**	**-2.2**	**8640**

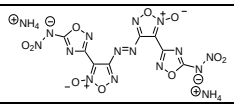
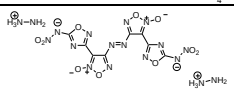
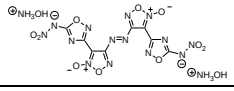
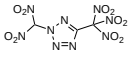
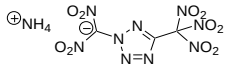
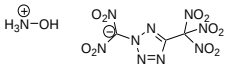
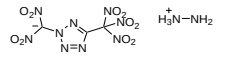
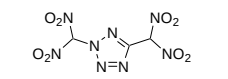
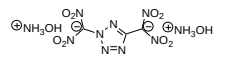
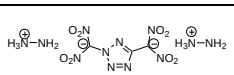
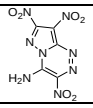
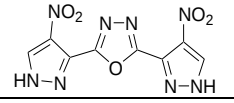
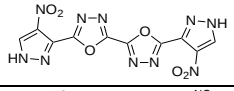
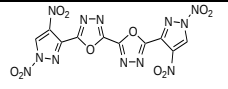
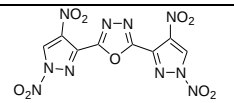
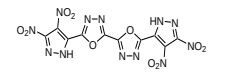
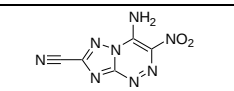
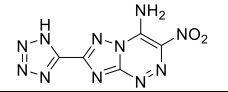
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
182	[69]		8526	-2.6	9210	5	8354	-4.7	8652	-1.1	8686	-0.7	8747
183	[70]		7903	-3.6	8238	0.6	7815	-4.8	7871	-4	7957	-2.9	8189
184	[70]		8711	-0.5	9000	2.7	8588	-1.9	8650	-1.2	8737	-0.2	8753
185	[70]		8072	3.3	8180	4.6	7352	-6.1	7599	-2.7	7801	0	7803
186	[70]		9139	4.2	8852	1.1	8551	-2.4	8588	-2	8782	0.3	8759
187	[70]		8737	-0.7	8991	2.2	8398	-4.8	8651	-1.7	8694	-1.2	8797
188	[70]		8661	1.2	8991	4.8	8170	-4.7	8444	-1.4	8566	0.1	8558
189	[70]		7836	-3.7	8238	1.3	7772	-4.6	7839	-3.7	7921	-2.6	8127
190	[70]		8675	-0.4	9000	3.2	8546	-1.9	8615	-1.1	8709	0	8710
191	[71]		7542	1.1	7458	0	6820	-9.4	7227	-3.2	7262	-2.7	7459
192	[71]		8004	-2.4	8085	-1.3	7576	-8.1	7787	-5.2	7863	-4.2	8193
193	[71]		7976	5.4	8192	7.9	6964	-8.4	7405	-1.9	7634	1.1	7547
194	[71]		7362	-5.9	5873	-32.8	6698	-16.4	7229	-7.9	6790	-14.8	7798
195	[72]		8681	0.3	8964	3.5	7927	-9.2	8344	-3.7	8479	-2.1	8653
196	[72]		8754	-2.2	8964	0.2	8189	-9.2	8580	-4.2	8622	-3.7	8943

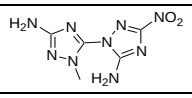
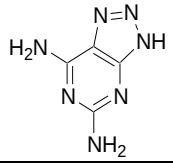
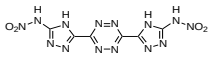
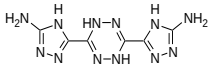
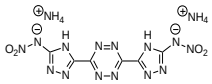
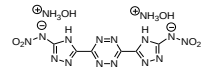
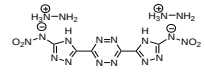
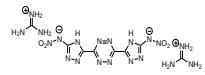
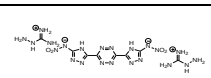
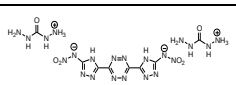
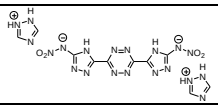
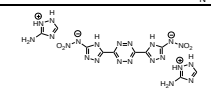
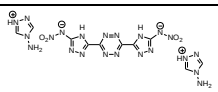
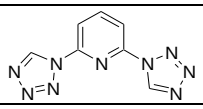
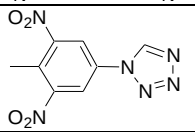
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
197	[73]		8578	-5.2	9389	3.9	8648	-4.4	8902	-1.4	8879	-1.6	9025
198	[73]		8709	-3	9045	0.8	8392	-6.9	8719	-2.9	8716	-2.9	8973
199	[73]		7361	-9.8	7834	-3.1	7456	-8.4	7699	-4.9	7588	-6.5	8079
200	[73]		7700	-5.5	8314	2.3	7607	-6.8	7890	-3	7878	-3.1	8125
201	[73]		7810	-5.5	8098	-1.7	7873	-4.6	7986	-3.1	7942	-3.7	8236
202	[73]		7787	-4.4	8386	3.1	7494	-8.5	7872	-3.3	7885	-3.1	8130
203	[73]		8032	-13.7	9478	3.6	8286	-10.2	8505	-7.4	8575	-6.5	9135
204	[74]		8603	-9.2	9719	3.3	9368	-0.3	9370	-0.3	9265	-1.4	9394
205	[74]		7847	-22.1	9570	-0.1	9061	-5.7	9198	-4.2	8919	-7.4	9581
206	[74]		8569	-3.2	9451	6.4	8479	-4.3	8666	-2	8791	-0.6	8842
207	[74]		7709	-18.3	9139	0.2	8654	-5.4	8765	-4	8567	-6.4	9118
208	[74]		8414	-10.3	9342	0.6	8591	-8	8900	-4.3	8812	-5.3	9282
209	[74]		7429	-21.4	8285	-8.9	8006	-12.7	8524	-5.8	7986	-13	9022
210	[75]		8785	-0.1	8664	-1.5	8400	-4.7	8475	-3.7	8562	-2.7	8792

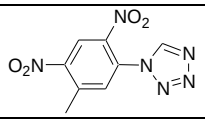
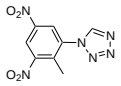
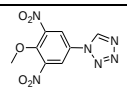
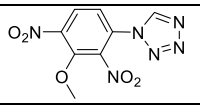
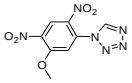
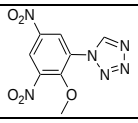
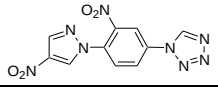
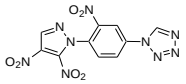
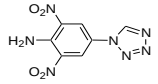
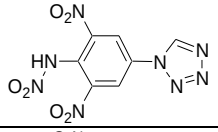
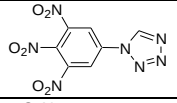
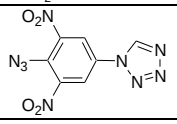
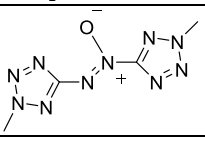
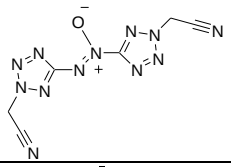
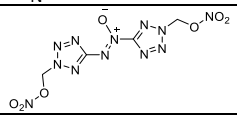
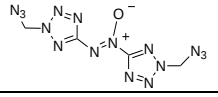
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
211	[75]		8232	-0.3	8240	-0.2	7908	-4.4	7964	-3.7	8086	-2.1	8257
212	[75]		7885	-2.1	7847	-2.6	7671	-5	7680	-4.8	7771	-3.6	8051
213	[75]		8815	3.4	8642	1.4	8218	-3.7	8296	-2.7	8493	-0.3	8518
214	[75]		8802	-1	8759	-1.5	8549	-4	8572	-3.7	8670	-2.6	8893
215	[75]		8373	-3.8	8732	0.5	8384	-3.6	8460	-2.7	8487	-2.4	8690
216	[75]		8460	1.2	8758	4.6	8035	-4	8201	-1.9	8364	0.1	8356
217	[75]		9295	0.7	9127	-1.1	8890	-3.8	8989	-2.6	9075	-1.7	9226
218	[75]		9185	1.6	9183	1.6	8894	-1.6	8960	-0.8	9056	0.2	9034
219	[76]		8285	-2.6	9080	6.3	8263	-2.9	8449	-0.7	8519	0.2	8504
220	[77]		8240	1.7	8781	7.7	7724	-4.9	7991	-1.4	8184	1	8102
221	[77]		8945	6	8660	2.9	7940	-5.9	8295	-1.4	8460	0.6	8409
222	[77]		9598	8.3	8954	1.7	8170	-7.7	8475	-3.8	8683	-1.3	8800
223	[78]		8297	-7.3	8179	-8.8	7731	-15.1	8115	-9.7	8080	-10.1	8899
224	[78]		8464	-6.6	8669	-4.1	8281	-8.9	8530	-5.8	8486	-6.3	9021
225	[79]		8151	-7.9	7641	-15.1	7868	-11.7	8330	-5.5	7998	-9.9	8792

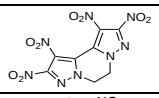
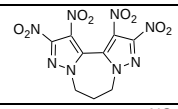
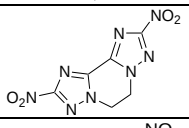
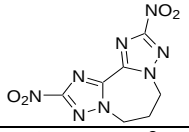
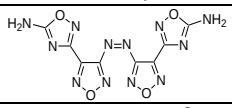
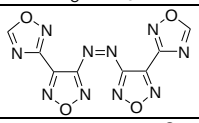
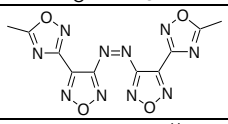
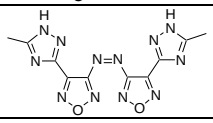
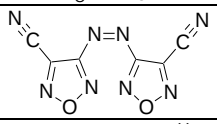
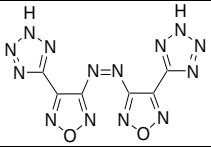
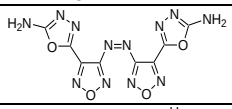
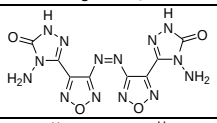
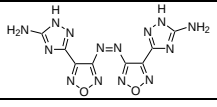
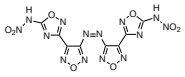
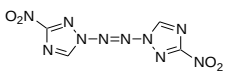
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
226	[79]		7744	-6.8	5901	-40.2	7155	-15.6	7467	-10.8	7067	-17	8271
227	[79]		7650	-4.7	5901	-35.7	6943	-15.3	7309	-9.6	6951	-15.2	8008
228	[79]		8141	-5.7	8155	-5.5	7686	-12	8136	-5.8	8030	-7.2	8607
229	[79]		7726	-21.5	6237	-50.5	7594	-23.6	8128	-15.5	7421	-26.5	9385
230	[79]		8182	-6.9	6295	-38.9	7622	-14.7	8093	-8	7548	-15.8	8744
231	[80]		8711	-3.4	8709	-3.5	7792	-15.6	8300	-8.6	8378	-7.5	9010
232	[80]		8415	0.6	-	-	7446	-12.4	8195	-2.1	8019	-4.3	8367
233	[80]		8786	-0.1	8292	-6	7565	-16.2	8091	-8.7	8184	-7.4	8793
234	[80]		8466	-5.7	8309	-7.7	7932	-12.8	8403	-6.5	8278	-8.1	8950
235	[80]		8804	-4.7	8761	-5.2	8064	-14.3	8457	-9	8522	-8.2	9220
236	[80]		8448	1.6	-	-	7117	-16.8	7909	-5.1	7825	-6.2	8313
237	[80]		8055	-7.7	-	-	7432	-16.8	8161	-6.3	7883	-10.1	8679
238	[80]		8392	-2.7	7414	-16.2	7576	-13.8	8242	-4.6	6221	-38.5	8618

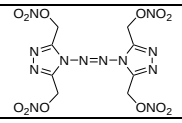
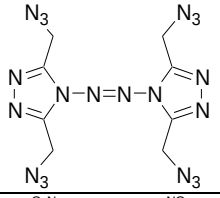
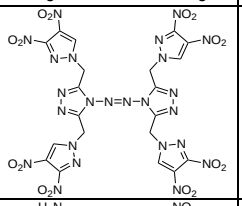
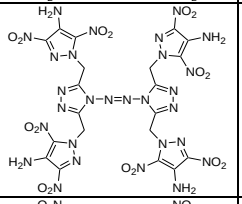
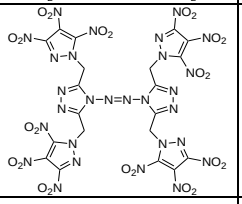
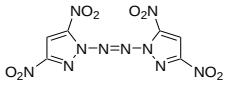
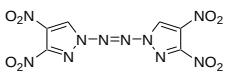
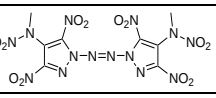
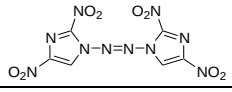
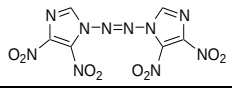
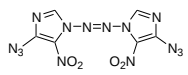
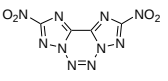
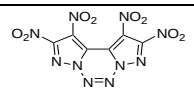
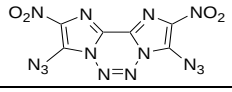
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
239	[81]		8293	-5.7	9288	5.7	8175	-7.2	8694	-0.8	8612	-1.8	8763
240	[81]		8647	-3.5	9344	4.2	8374	-6.9	8846	-1.2	8803	-1.7	8953
241	[82]		7630	3	7063	-4.8	7122	-3.9	7409	0.1	7306	-1.3	7403
242	[83]		8432	-0.6	8485	0.1	8145	-4.1	8248	-2.8	8328	-1.8	8480
243	[83]		9412	-0.1	8830	-6.6	8716	-8	8936	-5.4	8974	-4.9	9417
244	[83]		9932	4.3	9213	-3.1	9106	-4.4	9228	-3	9370	-1.4	9503
245	[84]		9207	3.4	7922	-12.2	8368	-6.3	8485	-4.8	8496	-4.6	8891
246	[84]		8798	6.4	7946	-3.6	7647	-7.7	7647	-7.7	8058	-2.2	8234
247	[84]		8151	-3.7	8700	2.8	8099	-4.4	8255	-2.4	8301	-1.8	8453
248	[84]		8787	3.9	8206	-2.9	8234	-2.6	8326	-1.4	8388	-0.7	8445
249	[84]		7196	-13.3	7892	-3.3	6871	-18.6	7293	-11.8	7313	-11.4	8150
250	[84]		9771	2.7	9027	-5.3	9028	-5.3	9235	-2.9	9265	-2.6	9505

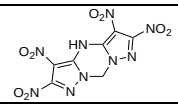
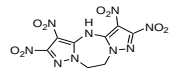
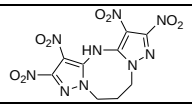
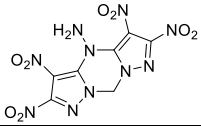
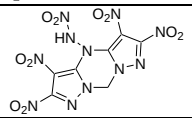
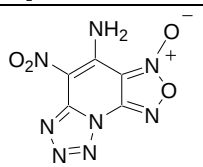
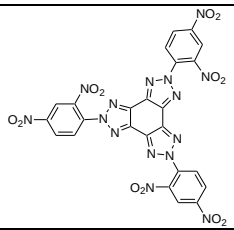
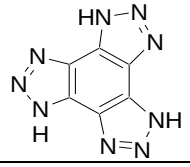
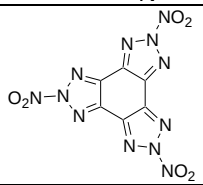
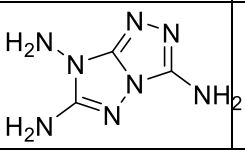
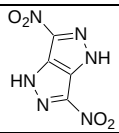
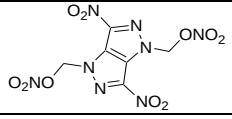
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
251	[84]		9261	9.8	8997	7.1	8134	-2.7	8386	0.3	8694	3.9	8357
252	[84]		8701	-1.8	9115	2.8	8451	-4.8	8677	-2.1	8736	-1.4	8860
253	[84]		9224	4.1	9137	3.2	8717	-1.5	8895	0.6	8993	1.6	8846
254	[85]		9651	11.8	9252	8	9432	9.8	9684	12.1	9505	10.5	8511
255	[85]		9317	7.5	9678	11	9109	5.4	9332	7.7	9359	7.9	8617
256	[85]		9683	6.5	9450	4.2	9729	6.9	9873	8.3	9762	7.3	9054
257	[85]		8926	0.1	9881	9.7	8889	-0.3	9166	2.7	9216	3.2	8920
258	[85]		9515	4.1	9750	6.4	9393	2.9	9587	4.8	9561	4.6	9123
259	[85]		9214	-4.1	10057	4.6	9558	-0.3	9604	0.1	9608	0.2	9590
260	[85]		8272	-11.6	9998	7.7	9167	-0.7	9329	1.1	9192	-0.4	9230
261	[86]		8935	2.2	9062	3.6	8479	-3	8657	-0.9	8783	0.5	8737
262	[87]		7987	-1.4	7264	-11.5	7508	-7.9	7594	-6.6	7588	-6.7	8099
263	[87]		8243	2.3	7098	-13.5	7431	-8.4	7553	-6.6	7581	-6.2	8054
264	[87]		9423	6	8102	-9.3	7499	-18.1	7771	-13.9	8199	-8	8855
265	[87]		9245	5.2	8434	-3.9	8552	-2.5	8676	-1	8727	-0.4	8766
266	[87]		9037	3.6	8102	-7.5	7614	-14.4	7859	-10.8	8153	-6.8	8710
267	[88]		7990	2.8	8200	5.3	7186	-8	7644	-1.6	7607	-2.1	7763
268	[88]		8517	2.4	8709	4.6	7635	-8.9	8169	-1.8	8258	-0.7	8312

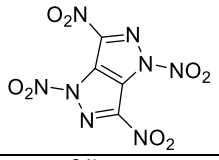
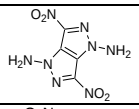
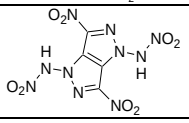
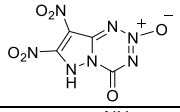
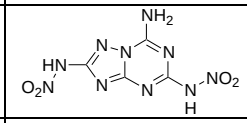
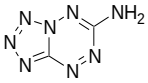
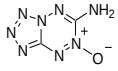
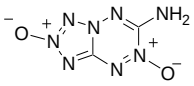
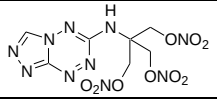
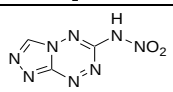
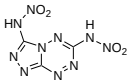
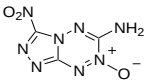
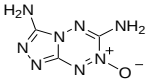
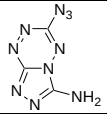
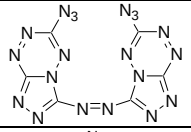
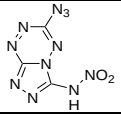
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
269	[89]		8003	6	7265	-3.5	7374	-2	7715	2.5	7589	0.9	7520
270	[90]		7121	-4.3	-	-	6163	-20.5	6875	-8	6720	-10.5	7426
271	[90]		8311	-6.4	8228	-7.5	7952	-11.2	8235	-7.4	8182	-8.1	8845
272	[91]		8390	-8.5	9171	0.8	8660	-5.1	9027	-0.8	8812	-3.3	9100
273	[91]		6734	-32.8	-	-	7645	-17	8043	-11.2	7474	-19.7	8943
274	[91]		8671	-2.6	8897	0	8145	-9.2	8512	-4.5	8556	-4	8898
275	[91]		8430	-9.9	9244	-0.2	8908	-4	9142	-1.4	8931	-3.8	9267
276	[91]		7702	-19.6	8989	-2.5	8412	-9.5	8765	-5.1	8467	-8.8	9214
277	[91]		7072	-27	8564	-4.8	7848	-14.4	8260	-8.7	7936	-13.1	8978
278	[91]		6517	-37.5	8660	-3.5	8032	-11.6	8420	-6.4	7907	-13.4	8963
279	[91]		6805	-31.9	9033	0.6	8350	-7.5	8654	-3.7	8210	-9.4	8978
280	[91]		8067	-10.6	8375	-6.6	8002	-11.5	8330	-7.1	8194	-8.9	8925
281	[91]		7606	-18	8479	-5.9	8122	-10.5	8461	-6.1	8167	-9.9	8976
282	[91]		8175	-9.7	8479	-5.7	7934	-13	8309	-7.9	8224	-9	8966
283	[92]		7504	5.1	-	-	6188	-15.1	6707	-6.2	6800	-4.7	7120
284	[92]		7421	-0.1	6492	-14.5	6833	-8.8	6865	-8.3	6903	-7.7	7432

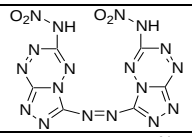
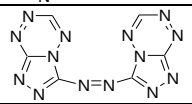
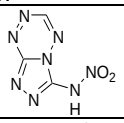
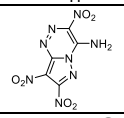
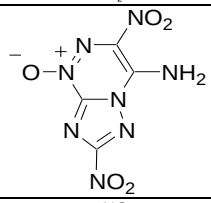
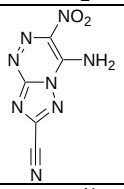
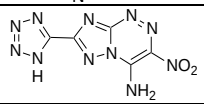
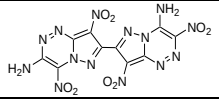
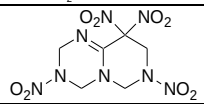
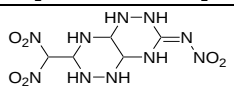
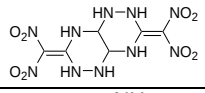
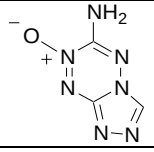
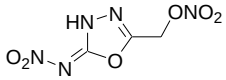
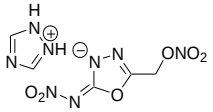
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
285	[92]		7322	0.2	6492	-12.5	6754	-8.2	6813	-7.2	6845	-6.7	7305
286	[92]		7290	0.6	6492	-11.6	6706	-8	6777	-6.9	6816	-6.3	7243
287	[92]		7651	5.3	6688	-8.4	7097	-2.1	7075	-2.4	7128	-1.7	7247
288	[92]		7384	1.6	6688	-8.7	6849	-6.1	6900	-5.3	6955	-4.5	7268
289	[92]		7484	0.7	6688	-11.1	6977	-6.5	6995	-6.2	7036	-5.6	7432
290	[92]		7517	1	6688	-11.3	7006	-6.2	7015	-6.1	7056	-5.5	7442
291	[92]		7465	4.3	6496	-9.9	6626	-7.8	6771	-5.5	6840	-4.4	7142
292	[92]		7860	0.6	7338	-6.5	7104	-10	7239	-7.9	7385	-5.8	7812
293	[92]		7522	-5	7279	-8.5	7051	-12	7192	-9.8	7261	-8.8	7899
294	[92]		8026	-2.2	8121	-1	7816	-4.9	7917	-3.6	7970	-2.9	8202
295	[92]		8479	2.1	7988	-3.9	7989	-3.9	8022	-3.4	8120	-2.2	8298
296	[92]		7937	2.6	8027	3.7	7395	-4.6	7677	-0.7	7759	0.3	7734
297	[93]		7743	3.6	6736	-10.8	6729	-10.9	7423	-0.6	7158	-4.3	7465
298	[93]		7566	4	7446	2.5	6635	-9.4	7318	0.8	7241	-0.3	7262
299	[93]		8866	9	10007	19.4	8035	-0.4	8481	4.9	8847	8.8	8066
300	[93]		8162	11.4	9067	20.3	6631	-9	7745	6.7	7901	8.5	7228

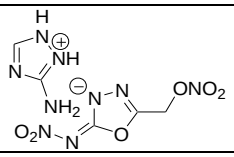
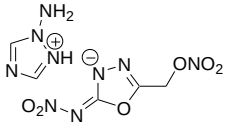
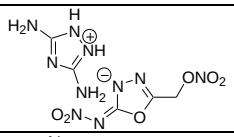
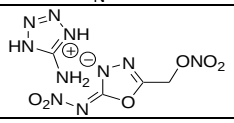
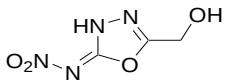
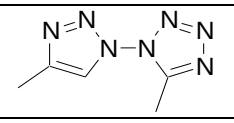
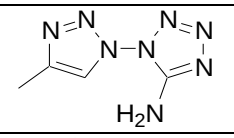
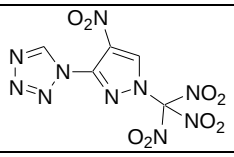
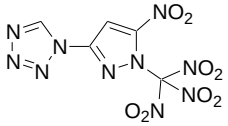
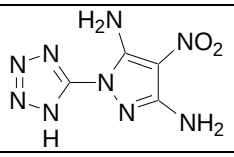
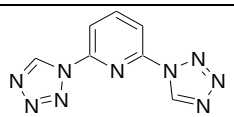
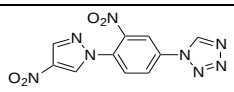
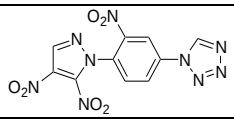
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
301	[94]		8304	2	8123	-0.1	7808	-4.2	7864	-3.4	8025	-1.4	8135
302	[94]		7801	1.3	7719	0.2	7392	-4.2	7441	-3.5	7588	-1.5	7700
303	[94]		8170	4.1	8059	2.7	7309	-7.2	7567	-3.6	7776	-0.8	7838
304	[94]		7624	3.8	7439	1.4	6832	-7.4	7078	-3.6	7243	-1.3	7336
305	[95]		8695	2.9	7919	-6.6	7541	-12	7855	-7.5	8002	-5.5	8445
306	[95]		8469	9.3	7700	0.2	7135	-7.7	7496	-2.5	7700	0.2	7685
307	[95]		8326	6.5	6730	-15.6	6971	-11.6	7136	-9	7291	-6.7	7781
308	[95]		7912	-7.2	6358	-33.4	6891	-23.1	7137	-18.8	7074	-19.9	8482
309	[95]		7612	-0.4	8220	7.1	6980	-9.5	7509	-1.7	7580	-0.8	7640
310	[95]		8415	-0.7	9053	6.4	7486	-13.2	8118	-4.4	8268	-2.5	8477
311	[95]		8622	3.5	7645	-8.9	7451	-11.7	7785	-6.9	7876	-5.7	8323
312	[95]		7687	-1.1	7951	2.2	7140	-8.9	7590	-2.4	7592	-2.4	7774
313	[95]		7853	-7.7	7693	-9.9	7180	-17.8	7645	-10.6	7593	-11.4	8458
314	[95]		10336	2.1	8875	-14	9274	-9.1	9424	-7.3	9477	-6.7	10114
315	[95]		8939	1.2	9602	8	8371	-5.5	8797	-0.4	8927	1.1	8830

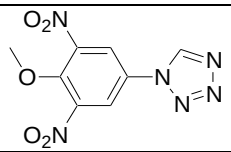
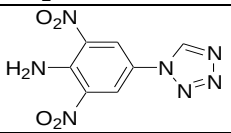
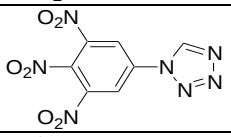
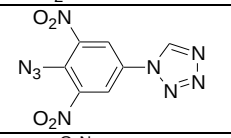
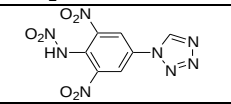
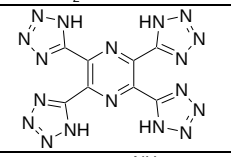
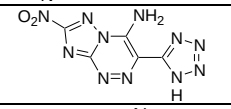
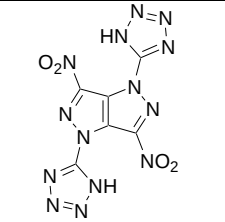
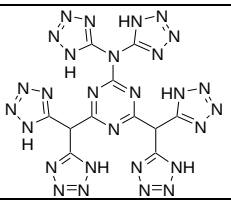
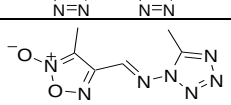
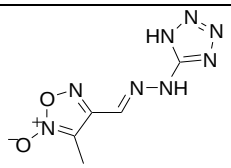
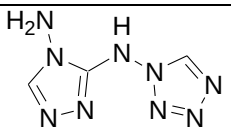
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
316	[95]		8676	5.6	9005	9.1	8091	-1.2	8200	0.1	8493	3.6	8190
317	[95]		7361	-4.5	-	-	6962	-10.5	7657	-0.4	7327	-5	7690
318	[95]		9158	11.9	8130	0.7	7652	-5.5	7799	-3.5	8185	1.4	8070
319	[95]		8385	2.3	8337	1.8	7731	-5.9	7904	-3.6	8089	-1.2	8190
320	[95]		10623	18.7	8785	1.7	8283	-4.3	8435	-2.4	9032	4.3	8640
321	[95]		9010	0.9	9202	3	8559	-4.3	8773	-1.8	8886	-0.5	8928
322	[95]		9048	0.9	9202	2.6	8592	-4.3	8801	-1.9	8911	-0.6	8964
323	[95]		9212	4.1	9200	4	8624	-2.4	8763	-0.8	8950	1.3	8834
324	[95]		9165	2	9202	2.4	8600	-4.4	8799	-2	8942	-0.4	8979
325	[95]		9087	1.7	9202	2.9	8554	-4.4	8762	-1.9	8901	-0.3	8932
326	[95]		8687	-0.2	9365	7.1	8175	-6.4	8663	-0.5	8722	0.2	8702
327	[96]		9755	3.6	9863	4.7	8674	-8.4	9153	-2.7	9361	-0.4	9400
328	[96]		9743	1.1	9327	-3.3	8797	-9.5	9050	-6.4	9229	-4.4	9631
329	[96]		9564	3.2	9561	3.2	8499	-8.9	9014	-2.7	9160	-1	9256

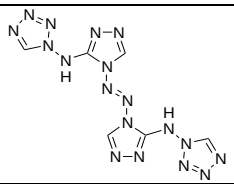
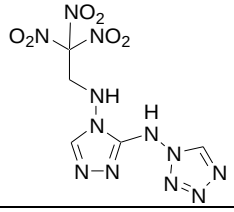
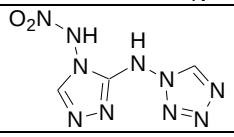
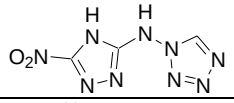
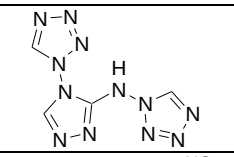
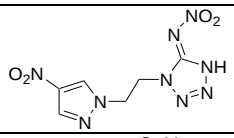
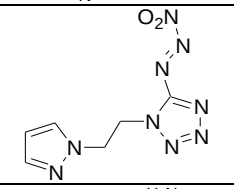
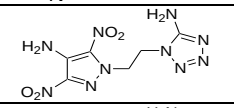
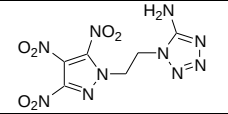
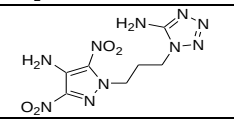
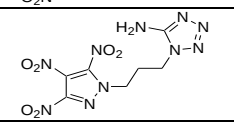
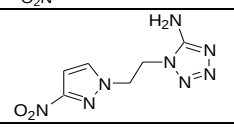
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
330	[96]		8803	0.1	8664	-1.5	8415	-4.5	8488	-3.6	8592	-2.3	8792
331	[96]		8232	-0.3	8240	-0.2	7908	-4.4	7964	-3.7	8086	-2.1	8257
332	[96]		7885	-2.1	7847	-2.6	7671	-5	7680	-4.8	7771	-3.6	8051
333	[96]		8460	1.2	8758	4.6	8035	-4	8201	-1.9	8364	0.1	8356
334	[96]		9306	0.9	9127	-1.1	8900	-3.7	8997	-2.5	9082	-1.6	9226
335	[96]		9194	3.9	8753	-1	8838	0	9037	2.2	8956	1.3	8838
336	[96]		7695	8.6	6535	-7.6	6493	-8.3	6593	-6.7	6829	-3	7032
337	[96]		7943	9.9	-	-	5902	-21.3	6725	-6.5	6857	-4.4	7160
338	[96]		9757	14.2	9443	11.3	8093	-3.5	8540	1.9	8958	6.5	8376
339	[96]		7542	-13.8	-	-	7087	-21.1	7751	-10.7	7460	-15	8580
340	[96]		8340	1.1	8781	6	8230	-0.2	8403	1.8	8438	2.2	8250
341	[96]		9116	4.8	8788	1.3	8561	-1.3	8593	-0.9	8764	1	8674

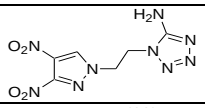
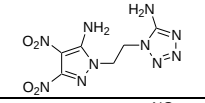
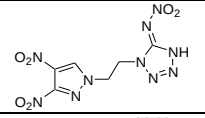
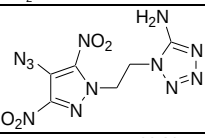
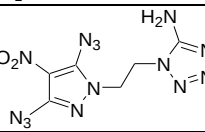
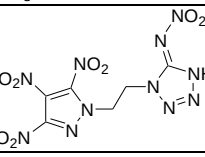
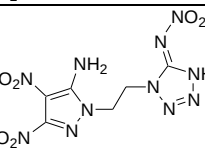
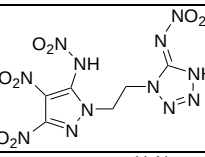
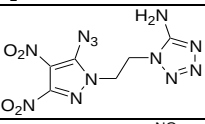
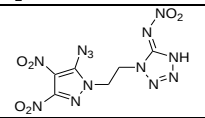
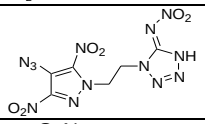
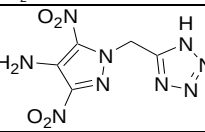
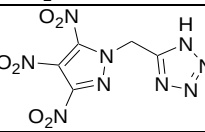
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
342	[96]		9859	4	9834	3.8	9443	-0.2	9663	2.1	9700	2.5	9460
343	[96]		8413	-5.4	8957	1	8413	-5.4	8626	-2.8	8602	-3	8864
344	[96]		9329	-1.9	9933	4.3	9363	-1.5	9594	0.9	9555	0.5	9507
345	[96]		9533	10.7	9137	6.8	8855	3.8	9035	5.8	9140	6.8	8515
346	[96]		8272	-6.2	9345	6	8368	-5	8721	-0.8	8676	-1.3	8787
347	[96]		8086	-4.5	-	-	7664	-10.2	8502	0.6	8084	-4.5	8449
348	[96]		8885	-5	9359	0.4	8551	-9.1	9207	-1.3	9000	-3.6	9326
349	[96]		9219	-4.1	10037	4.4	8979	-6.9	9517	-0.9	9438	-1.7	9600
350	[96]		8527	-8.9	8366	-11	8261	-12.5	8285	-12.1	8360	-11.1	9290
351	[96]		8392	-2.7	9344	7.7	8182	-5.4	8678	0.7	8649	0.3	8621
352	[96]		9014	-3.2	10102	7.9	9086	-2.4	9517	2.3	9430	1.4	9301
353	[96]		8865	-5.9	9622	2.5	8905	-5.4	9282	-1.1	9168	-2.4	9384
354	[96]		8221	-9.6	7457	-20.8	7761	-16.1	8298	-8.6	7934	-13.5	9008
355	[96]		8237	-4.2	-	-	7732	-11	8524	-0.7	8164	-5.1	8581
356	[96]		9413	7.7	-	-	8028	-8.2	8889	2.2	8777	1	8690
357	[96]		8921	-3.5	10187	9.3	8591	-7.5	9255	0.2	9238	0	9236

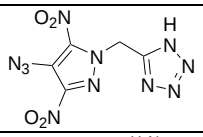
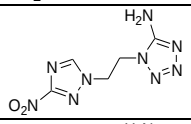
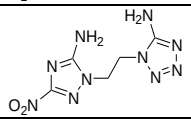
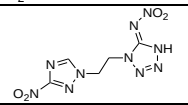
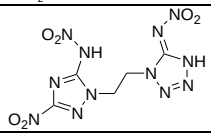
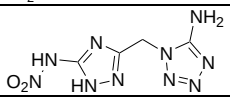
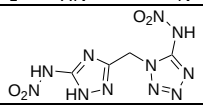
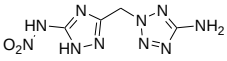
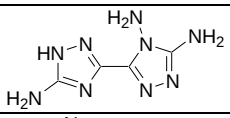
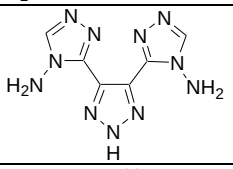
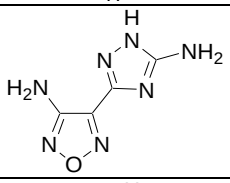
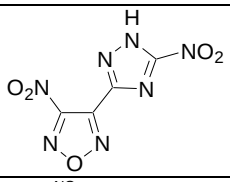
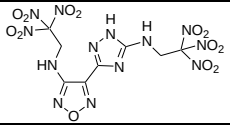
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
358	[96]		9494	-0.1	9816	3.2	6522	-45.7	7846	-21.1	8420	-12.8	9500
359	[96]		9587	4	-	-	8049	-14.3	8676	-6	8771	-4.9	9200
360	[96]		8574	-2.6	9344	5.8	8292	-6.1	8775	-0.3	8746	-0.6	8800
361	[96]		9118	1.3	9062	0.7	8123	-10.8	8379	-7.4	8670	-3.8	8998
362	[96]		9029	0.7	9389	4.5	8594	-4.4	8850	-1.4	8966	0	8970
363	[96]		8185	5.2	8200	5.3	7349	-5.6	7773	0.1	7877	1.4	7763
364	[96]		8521	2.5	8709	4.6	7685	-8.2	8207	-1.3	8280	-0.4	8312
365	[96]		8669	1.1	8484	-1	7876	-8.8	8104	-5.8	8283	-3.5	8572
366	[96]		8621	-2.1	8328	-5.6	8527	-3.2	8430	-4.4	8476	-3.8	8798
367	[96]		6733	-26.1	8532	0.5	8130	-4.5	8247	-3	7910	-7.4	8492
368	[96]		7098	-24.9	8665	-2.3	8610	-2.9	8622	-2.8	8249	-7.4	8862
369	[97]		8007	-2.6	7641	-7.5	7487	-9.7	8012	-2.5	7787	-5.5	8215
370	[98]		8644	-2.4	8732	-1.4	8858	0	8880	0.3	8778	-0.9	8855
371	[98]		8172	-5.6	8237	-4.8	7815	-10.4	7988	-8	8053	-7.2	8630

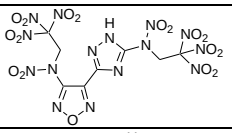
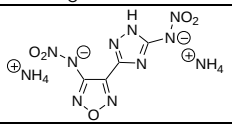
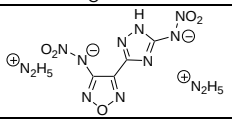
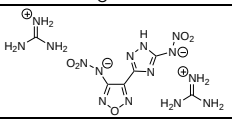
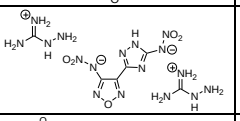
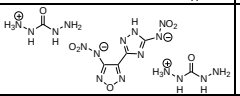
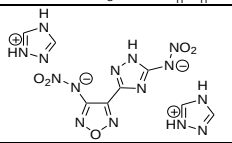
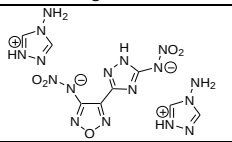
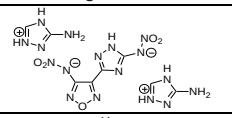
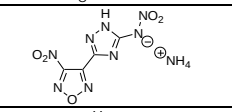
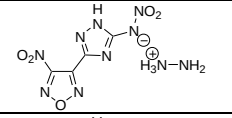
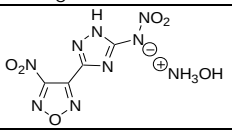
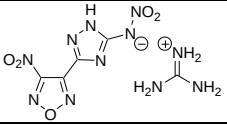
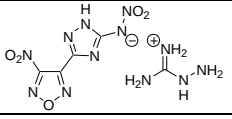
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
372	[98]		7614	-14.6	8361	-4.4	8584	-1.6	8651	-0.9	8302	-5.1	8725
373	[98]		7946	-11.7	8518	-4.2	8732	-1.7	8781	-1.1	8494	-4.5	8877
374	[98]		7511	-17.4	8622	-2.3	7910	-11.5	8153	-8.2	8049	-9.6	8821
375	[98]		7929	-15.3	9166	0.3	8990	-1.7	9162	0.2	8812	-3.7	9142
376	[98]		8134	-0.1	7855	-3.6	8042	-1.2	8047	-1.2	8020	-1.5	8140
377	[99]		6973	-10.8	-	-	6223	-24.1	6701	-15.3	6632	-16.5	7725
378	[99]		7146	-8.1		-	6741	-14.6	7292	-5.9	7060	-9.4	7724
379	[99]		9124	2.9	9554	7.3	8641	-2.5	8898	0.4	9054	2.1	8860
380	[99]		9005	2.5	9554	8.1	8566	-2.5	8834	0.6	8990	2.3	8780
381	[99]		7724	-6.9	8209	-0.6	6410	-28.8	7360	-12.2	7426	-11.2	8257
382	[99]		7504	5.1	-	-	6188	-15.1	6707	-6.2	6800	-4.7	7120
383	[99]		7465	4.3	6496	-9.9	6626	-7.8	6771	-5.5	6840	-4.4	7142
384	[99]		7860	0.6	7338	-6.5	7104	-10	7239	-7.9	7385	-5.8	7812

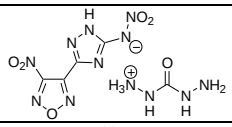
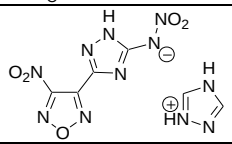
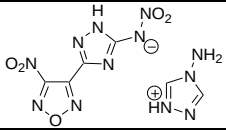
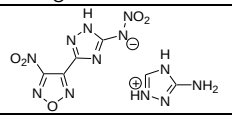
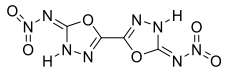
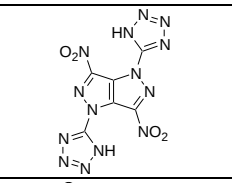
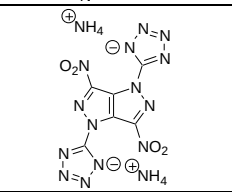
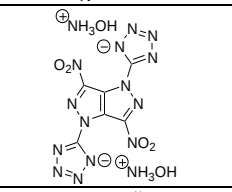
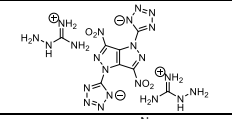
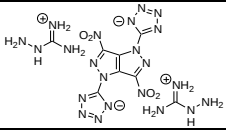
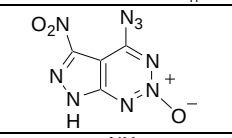
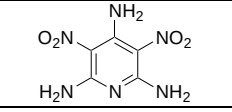
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
385	[99]		7651	4.9	6859	-6.1	7097	-2.5	7075	-2.8	7170	-1.5	7274
386	[99]		7522	-5	7279	-8.5	7051	-12	7192	-9.8	7261	-8.8	7899
387	[99]		8479	2.1	7988	-3.9	7989	-3.9	8022	-3.4	8120	-2.2	8298
388	[99]		7937	2.6	8027	3.7	7395	-4.6	7677	-0.7	7759	0.3	7734
389	[99]		8026	-2.3	8121	-1.1	7816	-5	7917	-3.7	7970	-3	8208
390	[99]		8856	2.3	-	-	7518	-15.1	8191	-5.7	8188	-5.7	8655
391	[99]		8700	-3.6	8709	-3.5	7783	-15.8	8293	-8.6	8371	-7.6	9010
392	[99]		9004	3.1	9365	6.9	8061	-8.2	8561	-1.9	8748	0.3	8721
393	[99]		8865	16.2	-	-	7280	-2.1	8065	7.9	8070	7.9	7430
394	[99]		7194	4.1	6118	-12.8	6644	-3.9	6903	0	6715	-2.8	6900
395	[99]		7264	-10	7169	-11.5	7407	-7.9	7685	-4	7381	-8.3	7991
396	[99]		7591	-15.8	-	-	7632	-15.2	8236	-6.7	7820	-12.4	8789

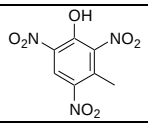
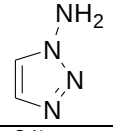
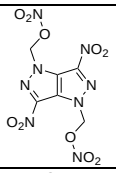
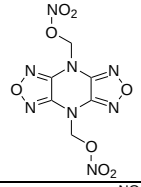
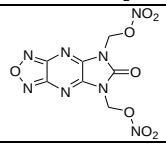
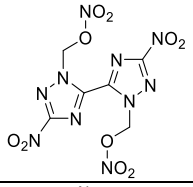
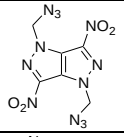
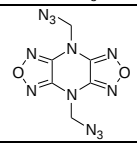
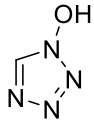
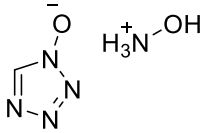
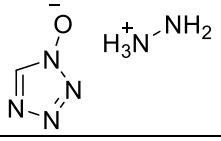
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
397	[99]		8378	-2.6	-	-	7669	-12.1	8357	-2.9	8135	-5.7	8599
398	[99]		8409	-7.1	9346	3.7	8791	-2.4	9032	0.3	8894	-1.2	9004
399	[99]		8310	-10	9240	1.1	8591	-6.4	9065	-0.8	8802	-3.9	9141
400	[99]		8117	-9.5	9288	4.3	8541	-4	9016	1.5	8740	-1.7	8885
401	[99]		8409	-15.3	-	-	7848	-23.5	8514	-13.9	8257	-17.4	9695
402	[99]		7665	-2.1	7941	1.5	7337	-6.6	7571	-3.3	7628	-2.6	7824
403	[99]		7192	2.1	6873	-2.4	6435	-9.4	6895	-2.1	6849	-2.8	7041
404	[99]		7539	-4.6	8057	2.1	7277	-8.4	7569	-4.2	7610	-3.7	7889
405	[99]		8138	-0.4	8689	6	7817	-4.5	8033	-1.7	8169	0	8172
406	[99]		7278	-6.7	7503	-3.5	7069	-9.9	7301	-6.4	7288	-6.6	7768
407	[99]		7797	-2.1	8205	3	7565	-5.2	7725	-3	7823	-1.7	7959
408	[99]		7013	-0.8	6285	-12.5	6330	-11.7	6730	-5.1	6590	-7.3	7072

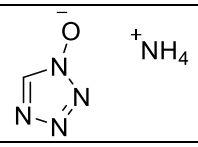
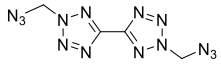
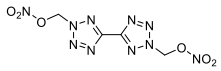
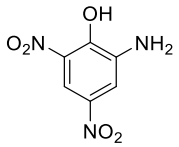
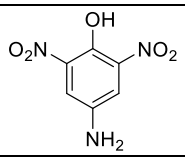
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
409	[99]		7458	-0.8	7941	5.4	7067	-6.4	7363	-2.1	7457	-0.8	7516
410	[99]		7573	-4.1	8057	2.2	7300	-8	7588	-3.9	7630	-3.3	7883
411	[99]		8066	-0.6	8689	6.6	7814	-3.8	8031	-1	8150	0.4	8114
412	[99]		8021	-2	8660	5.5	7692	-6.4	8051	-1.7	8106	-1	8185
413	[99]		7695	-2.9	8334	5	7286	-8.7	7842	-1	7789	-1.6	7917
414	[99]		8253	-3.7	9155	6.6	8337	-2.6	8529	-0.3	8568	0.2	8555
415	[99]		7738	-8.4	8778	4.4	7990	-5	8201	-2.3	8177	-2.6	8388
416	[99]		8287	-6.2	9224	4.6	8534	-3.2	8712	-1.1	8689	-1.3	8804
417	[99]		8057	-1.6	8660	5.5	7657	-6.9	8024	-2	8100	-1.1	8186
418	[99]		8309	-5.3	9209	5	8336	-4.9	8634	-1.3	8622	-1.5	8748
419	[99]		8204	-5.5	9209	6	8270	-4.7	8579	-0.9	8566	-1.1	8659
420	[99]		8234	-3.8	8582	0.4	7944	-7.6	8188	-4.4	8237	-3.8	8548
421	[99]		8843	0	9144	3.3	8488	-4.2	8690	-1.8	8791	-0.6	8845

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
422	[99]		8573	-1.6	9200	5.4	8194	-6.3	8579	-1.5	8636	-0.8	8707
423	[99]		7410	0.2	7265	-1.8	6690	-10.5	7181	-3	7136	-3.6	7395
424	[99]		7492	-4.2	7349	-6.2	6879	-13.5	7390	-5.6	7278	-7.3	7807
425	[99]		7590	-6.9	8668	6.4	7534	-7.7	7887	-2.9	7920	-2.4	8113
426	[99]		7758	-12	9346	7	7947	-9.3	8299	-4.7	8338	-4.2	8690
427	[99]		7611	-7.6	8236	0.6	7406	-10.5	7929	-3.3	7796	-5	8187
428	[99]		8222	-6.4	9388	6.8	7847	-11.5	8356	-4.7	8453	-3.5	8750
429	[99]		7644	-7.4	8236	0.3	7411	-10.8	7937	-3.5	7807	-5.2	8213
430	[100]		7006	-11.6	-	-	6392	-22.3	7191	-8.7	6863	-13.9	7818
431	[100]		7266	-7.4	-	-	6508	-19.9	7128	-9.5	6967	-12	7806
432	[101]		6986	2	5873	-16.6	6656	-2.9	7161	4.4	6669	-2.7	6846
433	[101]		8837	-3.6	9321	1.8	8668	-5.6	8907	-2.8	8933	-2.5	9152
434	[101]		8849	-2.7	9135	0.5	8962	-1.4	8980	-1.2	8982	-1.2	9087

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
435	[101]		10100	7.4	9560	2.1	9383	0.3	9455	1.1	9624	2.8	9355
436	[101]		8861	-0.4	9163	2.9	8274	-7.5	8549	-4.1	8712	-2.1	8897
437	[101]		7947	-13.8	9281	2.5	8716	-3.8	8949	-1.1	8723	-3.7	9045
438	[101]		6635	-19.7	8748	9.2	7260	-9.4	7740	-2.6	7596	-4.6	7942
439			6301	-34.2	8872	4.7	7723	-9.5	8109	-4.3	7751	-9.1	8455
440	[101]		6517	-25.2	9198	11.3	8000	-2	8300	1.7	8004	-1.9	8159
441			7905	-5.5	8466	1.5	7763	-7.4	8055	-3.6	8047	-3.7	8341
442	[101]		7945	-8.8	8604	-0.4	7934	-8.9	8233	-5	8179	-5.7	8642
443	[101]		7405	-13.1	8604	2.7	7640	-9.6	8006	-4.6	7914	-5.8	8373
444	[101]		8748	0.4	8998	3.1	8371	-4.1	8610	-1.2	8682	-0.4	8716
445	[101]		8384	-8.1	9297	2.5	8677	-4.4	8892	-1.9	8812	-2.8	9060
446	[101]		8695	-3	9383	4.6	8747	-2.4	8913	-0.5	8934	-0.2	8954
447	[101]		7419	-7.7	8964	10.9	7576	-5.5	7951	-0.5	7978	-0.2	7990
448	[101]		7202	-13.7	9033	9.4	7771	-5.4	8120	-0.8	8032	-1.9	8187

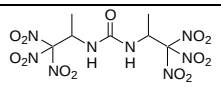
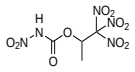
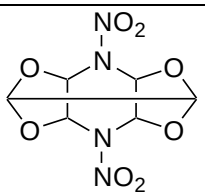
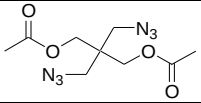
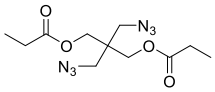
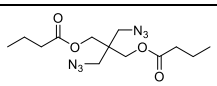
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
449	[101]		7319	-12.8	9196	10.2	7932	-4.1	8238	-0.2	8171	-1	8256
450	[101]		8008	-2.4	8778	6.6	7773	-5.5	8084	-1.4	8161	-0.4	8197
451	[101]		8157	-3.3	8853	4.8	7962	-5.8	8261	-2	8308	-1.4	8424
452	[101]		7795	-4.6	8853	7.9	7697	-5.9	8048	-1.3	8098	-0.7	8151
453	[102]		8765	-7.9	8566	-10.4	8790	-7.6	9006	-5	8782	-7.7	9457
454	[103]		9004	3.1	9365	6.9	8061	-8.2	8561	-1.9	8748	0.3	8721
455	[103]		9167	8.3	9072	7.4	7682	-9.4	8171	-2.9	8523	1.4	8404
456	[103]		8545	3.6	9369	12.1	7853	-4.9	8262	0.3	8507	3.2	8237
457	[103]		7316	-24.1	8793	-3.3	7746	-17.2	8223	-10.4	8020	-13.2	9082
458	[103]		6981	-20.3	8793	4.5	7344	-14.3	7893	-6.4	7753	-8.3	8396
459	[104]		8738	-4.3	9441	3.5	8378	-8.7	8823	-3.3	8845	-3	9111
461	[38]		7350	-5.4	7663	-1.1	7393	-4.8	7488	-3.5	7474	-3.7	7749

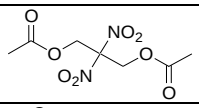
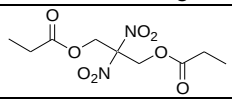
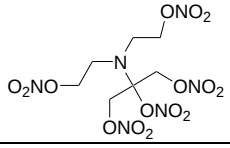
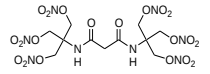
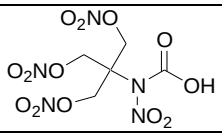
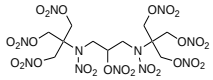
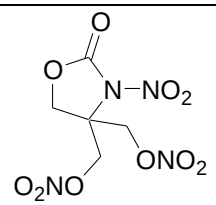
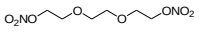
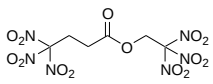
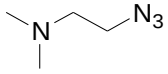
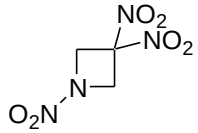
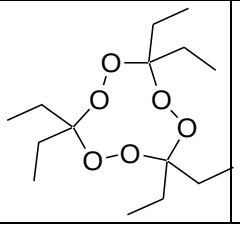
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
462	[38]		7242	6.6	6987	3.2	7558	10.5	7385	8.4	7293	7.3	6763
463	[24]		6697	-16	-	-	6268	-23.9	6882	-12.9	6616	-17.4	7767
465	[105]		9116	4.8	8788	1.3	8561	-1.3	8593	-0.9	8764	1	8674
466	[105]		8980	3.5	8546	-1.4	8449	-2.6	8493	-2.1	8617	-0.6	8669
467	[105]		8979	10.3	7994	-0.8	7746	-4	7860	-2.5	8145	1.1	8057
468	[105]		9281	6.9	9065	4.7	8460	-2.1	8604	-0.4	8852	2.4	8639
469	[105]		8324	0.4	8868	6.5	7816	-6.1	8209	-1	8304	0.1	8292
470	[105]		8017	-3.8	8304	-0.2	7484	-11.2	7971	-4.4	7944	-4.8	8323
474	[106]		7840	-7.2	8682	3.2	7977	-5.4	8516	1.3	8254	-1.8	8405
475	[106]		7869	-18	8814	-5.3	7818	-18.8	8333	-11.4	8208	-13.1	9284
476	[106]		7343	-28.5	6198	-52.3	7838	-20.4	8394	-12.4	7443	-26.8	9437

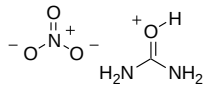
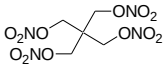
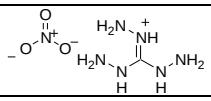
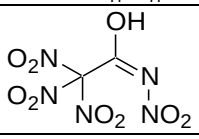
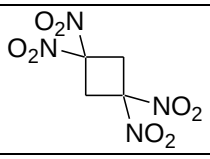
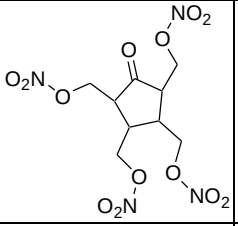
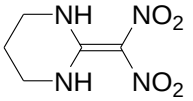
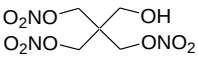
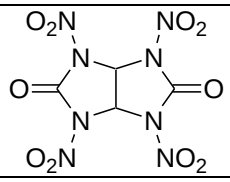
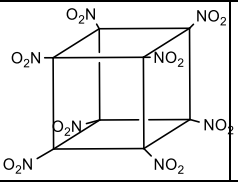
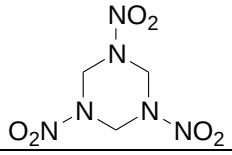
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
477	[106]		7646	-4.8	6287	-27.5	7683	-4.3	8207	2.4	7456	-7.5	8013
478	[107]		8073	-1	-	-	7444	-9.6	8238	1	7918	-3	8155
479	[107]		8693	3.6	9054	7.5	8152	-2.8	8496	1.4	8599	2.6	8377
480	[108]		7209	9.1	6451	-1.6	6726	2.6	6635	1.2	6755	3	6553
481	[109]		7488	0.4	6451	-15.6	7465	0.1	7179	-3.9	7146	-4.4	7458

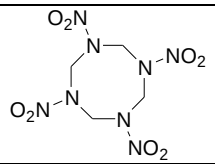
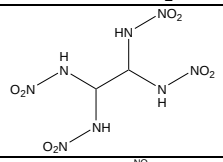
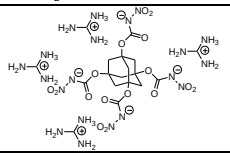
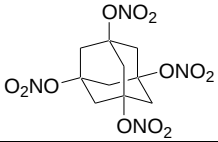
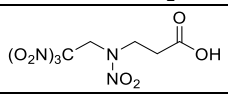
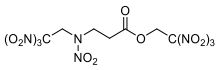
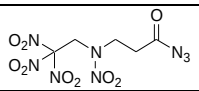
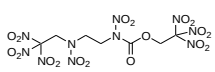
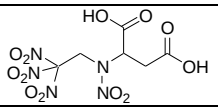
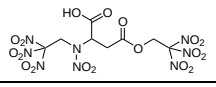
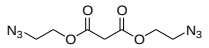
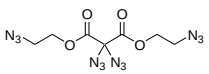
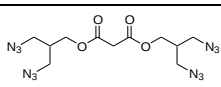
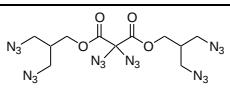
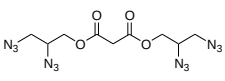
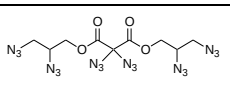
2.2.6 The detonation velocities of non-aromatic compounds

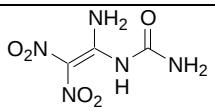
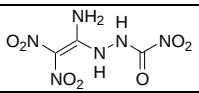
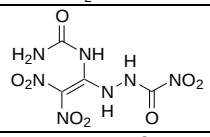
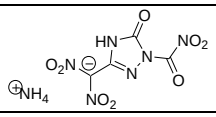
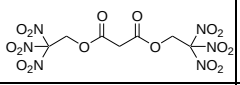
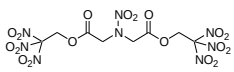
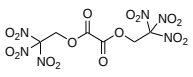
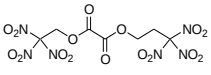
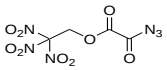
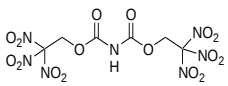
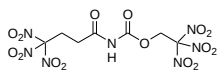
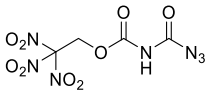
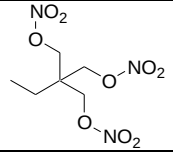
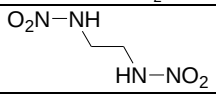
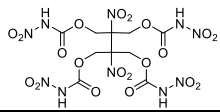
Table 36. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the non-aromatic compounds.

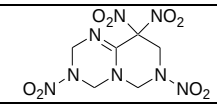
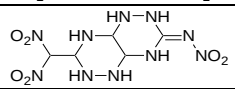
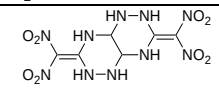
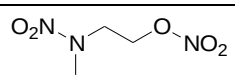
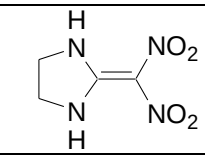
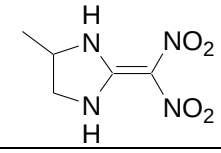
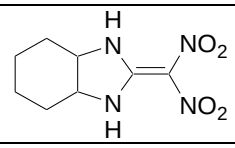
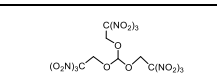
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
1	[22]		8263	-2,5	8400	-0,8	8547	0,9	8388	-1	8399	-0,8	8469
2	[22]		7777	1,2	8582	10,5	7953	3,4	8006	4,1	7912	2,9	7680
3	[23] [24]		8822	2,3	6896	-24,9	8139	-5,8	7832	-10	8092	-6,5	8615
26	[35]		5507	1,6	4203	-29	4912	-10,3	5434	0,3	4828	-12,3	5420
27	[35]		5088	-4	3458	-53	4553	-16,2	5124	-3,3	4556	-16,2	5292
28	[35]		4648	-8,6	2842	-77,6	4185	-20,6	4852	-4	4130	-22,2	5048

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
29	[35]		6297	9,8	5396	-5,3	5796	1,9	5916	3,9	5851	2,9	5683
30	[35]		5652	9,6	4641	-10,1	5224	2,2	5435	6	5238	2,4	5111
31	[36]		8368	3,7	8008	-0,6	8393	4	8158	1,2	8232	2,1	8059
32	[36]		7654	-3,1	7548	-4,5	7911	0,3	7726	-2,1	7710	-2,3	7891
33	[36]		8307	3,1	8209	2	8495	5,3	8356	3,7	8434	4,6	8048
34	[36]		9319	8,3	8384	-2	8869	3,6	8622	0,8	8798	2,8	8550
35	[36]		8727	5,3	7679	-7,6	8165	-1,2	8008	-3,2	8145	-1,5	8266
44	[38]		6473	-0,4	5848	-11,1	6468	-0,5	6354	-2,3	6286	-3,4	6498
45	[38]		8852	2,7	8537	-0,9	8658	0,5	8534	-1	8645	0,3	8616
46	[24]		4940	-16	-	-	4252	-34,8	5168	-10,9	4787	-19,7	5730
48	[41]		8718	-2,6	8676	-3,1	9047	1,1	8905	-0,5	8836	-1,3	8947
49	[42]		4600	-37,4	-	-	4462	-41,7	4599	-37,5	3594	-75,9	6322

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
50	[43]		7705	-3,3	8428	5,6	7218	-10,3	7777	-2,3	7782	-2,3	7958
51	[44]		8620	1,1	8077	-5,5	8652	1,5	8375	-1,8	8431	-1,1	8525
53	[38]		6364	-39,7	8827	-0,7	7487	-18,8	8013	-11	7673	-15,9	8893
54	[38]		9325	19,5	8176	8,2	9370	19,9	9506	21,1	9094	17,5	7503
55	[38]		8730	1	8575	-0,8	8873	2,6	8696	0,6	8718	0,8	8646
56	[38]		7219	-4,1	6786	-10,8	7308	-2,9	7108	-5,8	7105	-5,8	7518
59	[47]		6958	-13,6	6292	-25,7	7331	-7,8	7163	-10,4	6936	-14	7906
60	[38]		7550	-3	7540	-3,1	7683	-1,2	7484	-3,9	7564	-2,8	7777
61	[38]		10004	0,6	8856	-12,3	9548	-4,2	9617	-3,4	9506	-4,6	9946
62	[38]		9623	0,6	8928	-7,1	9469	-1	9443	-1,3	9366	-2,1	9562
64	[26]		8237	-7,8	8940	0,6	8771	-1,3	8765	-1,3	8773	-1,2	8882

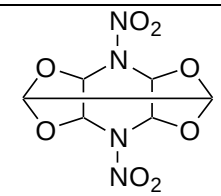
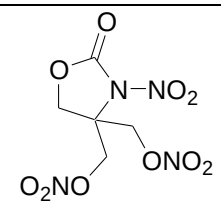
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
65	[38]		9184	-1,1	9042	-2,7	9149	-1,5	9077	-2,3	9113	-1,9	9286
66	[38]		8393	-4,4	9659	9,3	9636	9,1	9720	9,9	9352	6,3	8760
76	[49]		3538	-92,5	6836	0,4	6308	-7,9	6589	-3,3	5900	-15,4	6809
77	[49]		7348	0,9	6556	-11,1	7435	2,1	7121	-2,3	7115	-2,3	7282
78	[50]		8337	4,2	8093	1,3	8150	2	8041	0,7	8155	2,1	7987
79	[50]		8775	5,4	8653	4,1	8503	2,4	8429	1,5	8590	3,4	8300
80	[50]		8349	0,8	8707	4,8	8288	0	8363	0,9	8427	1,7	8285
81	[50]		9754	6,9	9008	-0,8	9212	1,4	9102	0,2	9269	2	9083
82	[50]		8130	7,6	7739	2,9	7671	2	7652	1,8	7798	3,6	7515
83	[50]		8475	8	8354	6,6	8014	2,7	8010	2,6	8213	5	7801
84	[51]		6329	2,2	5120	-20,9	5648	-9,6	6039	-2,5	5784	-7,1	6192
85	[51]		6999	0,4	7209	3,3	6660	-4,7	7135	2,3	7001	0,4	6974
86	[51]		5977	-10	5598	-17,5	5880	-11,8	6278	-4,7	5933	-10,8	6576
87	[51]		6681	-7	6978	-2,4	6695	-6,8	7122	-0,4	6869	-4	7147
88	[51]		6052	-3,3	6340	1,4	5809	-7,6	6350	1,5	6138	-1,9	6252
89	[51]		7004	-1,2	7669	7,6	6816	-4	7346	3,5	7209	1,7	7087

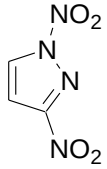
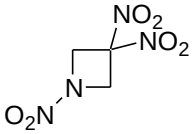
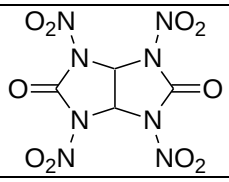
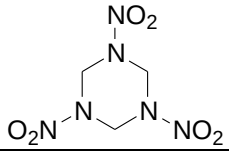
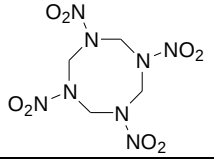
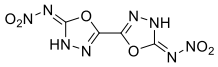
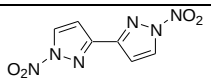
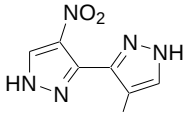
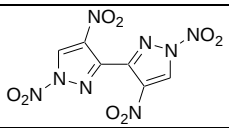
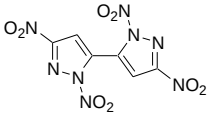
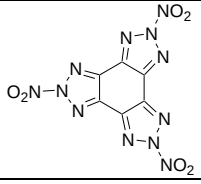
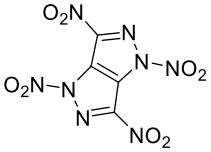
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
90	[52]		7922	-7,5	8184	-4,1	8067	-5,6	8183	-4,1	8089	-5,3	8516
91	[52]		7978	-7,5	9009	4,8	8512	-0,8	8634	0,7	8533	-0,5	8576
92	[52]		7394	4,2	8573	17,4	7818	9,4	8043	11,9	7957	11	7085
93	[52]		8306	-0,6	8573	2,5	8225	-1,6	8370	0,1	8369	0,1	8359
94	[53]		8790	6	8197	-0,8	8361	1,2	8262	0	8402	1,7	8263
95	[53]		8987	6,4	8354	-0,7	8506	1,1	8401	-0,2	8562	1,7	8415
113	[57]		9317	11,2	8017	-3,2	8813	6,1	8724	5,1	8718	5,1	8275
114	[57]		8674	7	8197	1,5	8305	2,8	8220	1,8	8349	3,3	8071
115	[57]		8641	4,8	8574	4,1	8353	1,6	8496	3,2	8516	3,4	8223
116	[57]		9413	7,8	8251	-5,1	8967	3,3	8867	2,2	8874	2,2	8675
117	[57]		8003	3,7	8303	7,2	7889	2,4	7905	2,6	7932	2,9	7703
118	[57]		7515	4	8697	17,1	7385	2,3	7727	6,7	7831	7,9	7213
119	[26]		7141	0,6	6815	-4,1	7298	2,8	7074	-0,3	7082	-0,2	7097
121	[26]		7842	-6,3	8309	-0,3	8421	1	8380	0,5	8238	-1,2	8336
130	[60]		8225	-0,9	7846	-5,8	8293	-0,1	8190	-1,3	8138	-2	8298

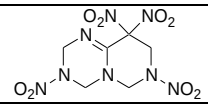
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
366	[96]		8621	-2,1	8328	-5,6	8527	-3,2	8430	-4,4	8476	-3,8	8798
367	[96]		6733	-26,1	8532	0,5	8130	-4,5	8247	-3	7910	-7,4	8492
368	[96]		7098	-24,9	8665	-2,3	8610	-2,9	8622	-2,8	8249	-7,4	8862
460	[26]		7414	-8,6	7345	-9,6	7676	-4,9	7536	-6,8	7493	-7,4	8050
471	[47]		7278	-15,3	7097	-18,3	7566	-10,9	7483	-12,2	7356	-14,1	8394
472	[47]		6867	-12,4	6292	-22,7	7225	-6,9	7087	-8,9	6868	-12,4	7720
473	[47]		6097	-18,9	4706	-54,1	6387	-13,5	6239	-16,2	5857	-23,8	7251
482	[110]		9687	-	8675	-	8741	-	8702	-	8951	-	-

2.2.7 The detonation Velocities of cyclic nitramines

Table 37. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the cyclic nitramines.

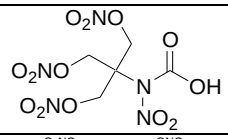
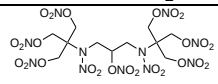
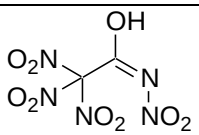
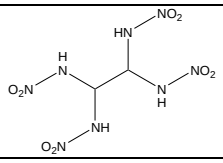
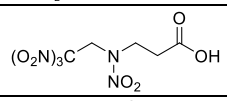
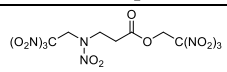
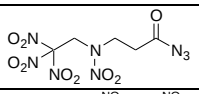
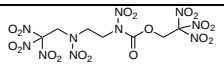
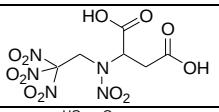
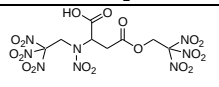
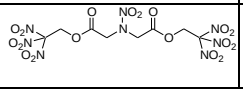
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
3	[23] [24]		8822	2,3	6896	-24,9	8139	-5,8	7832	-10	8092	-6,5	8615
35	[36]		8727	5,3	7679	-7,6	8165	-1,2	8008	-3,2	8145	-1,5	8266

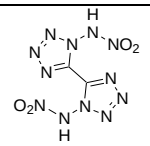
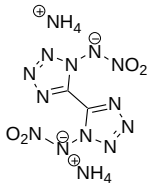
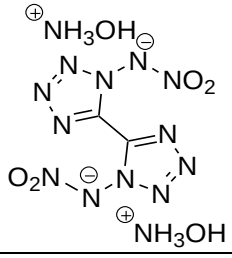
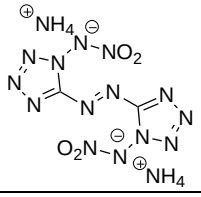
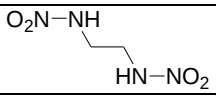
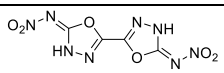
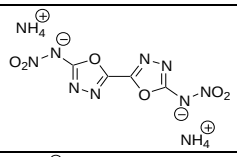
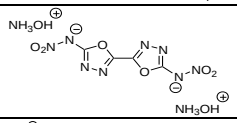
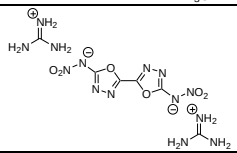
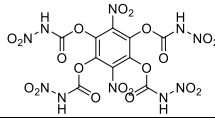
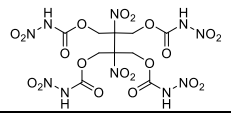
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
37	[37]		8235	-2,7	8824	4,1	8295	-2	8378	-1	8433	-0,3	8459
48	[41]		8718	-2,6	8676	-3,1	9047	1,1	8905	-0,5	8836	-1,3	8947
61	[38]		10004	0,6	8856	-12,3	9548	-4,2	9617	-3,4	9506	-4,6	9946
64	[26]		8237	-7,8	8940	0,6	8771	-1,3	8765	-1,3	8773	-1,2	8882
65	[38]		9184	-1,1	9042	-2,7	9149	-1,5	9077	-2,3	9113	-1,9	9286
123	[58]		8731	-7,5	8566	-9,6	8941	-5	9130	-2,8	8842	-6,2	9388
139	[64]		8320	0,2	7503	-10,6	7718	-7,6	7728	-7,4	7817	-6,2	8301
142	[64]		7858	-3,3	7503	-8,2	7469	-8,7	7512	-8,1	7586	-7	8120
143	[64]		9037	1,9	8908	0,4	8523	-4,1	8631	-2,8	8775	-1,1	8869
144	[64]		9057	1,4	8908	-0,2	8578	-4,1	8680	-2,8	8806	-1,4	8926
338	[96]		9757	14,2	9443	11,3	8093	-3,5	8540	1,9	8958	6,5	8376
342	[96]		9859	4	9834	3,8	9443	-0,2	9663	2,1	9700	2,5	9460

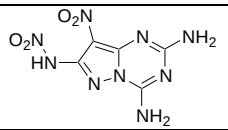
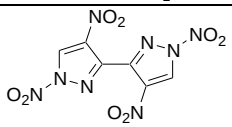
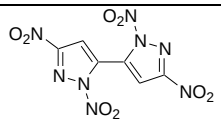
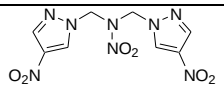
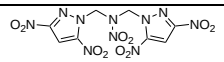
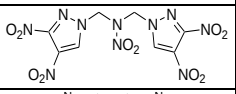
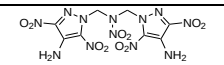
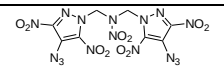
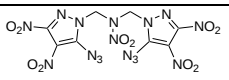
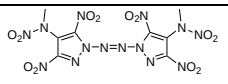
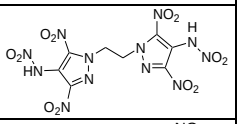
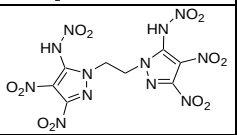
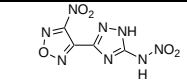
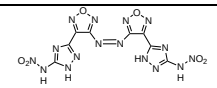
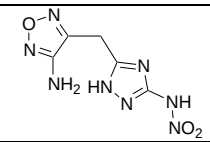
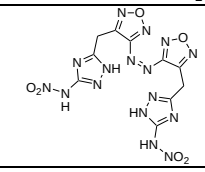
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
366	[96]		8621	-2,1	8328	-5,6	8527	-3,2	8430	-4,4	8476	-3,8	8798

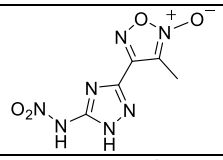
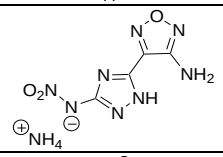
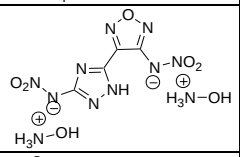
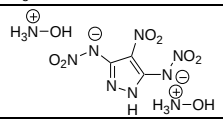
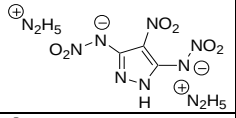
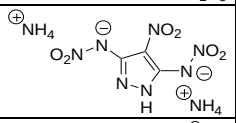
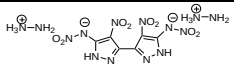
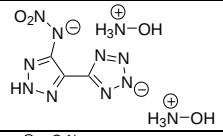
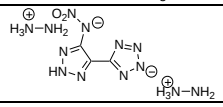
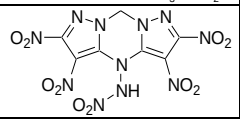
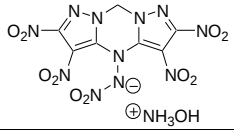
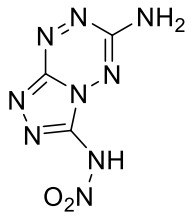
2.2.8 The detonation velocities of acyclic nitramines

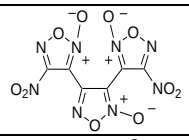
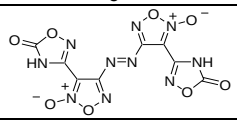
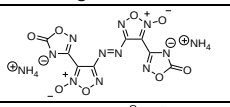
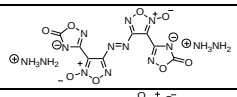
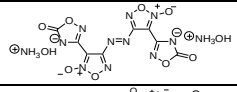
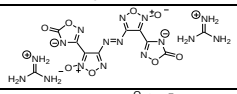
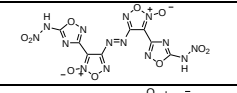
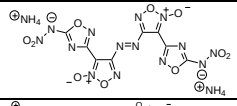
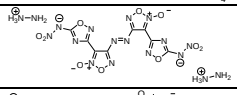
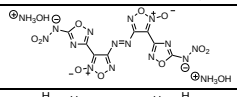
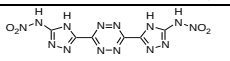
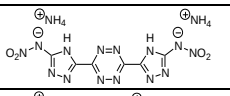
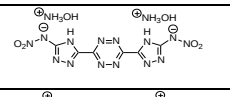
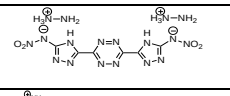
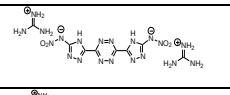
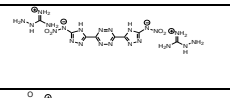
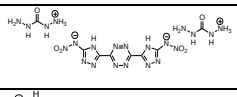
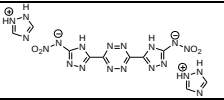
Table 38. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the acyclic nitramines.

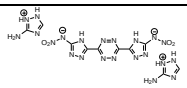
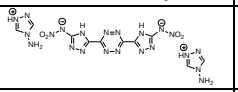
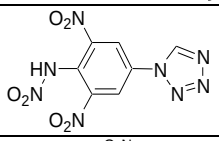
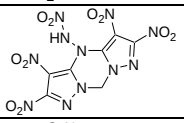
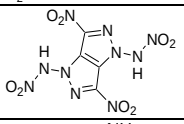
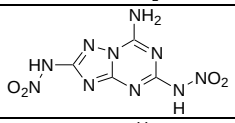
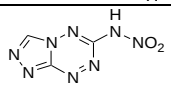
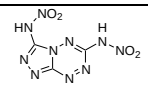
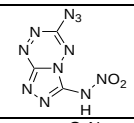
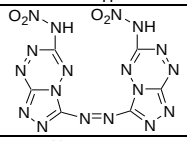
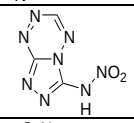
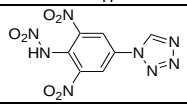
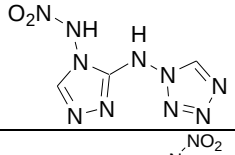
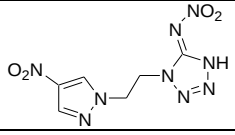
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
33	[36]		8307	3,1	8209	2	8495	5,3	8356	3,7	8434	4,6	8048
34	[36]		9319	8,3	8384	-2	8869	3,6	8622	0,8	8798	2,8	8550
54	[38]		9325	19,5	8176	8,2	9370	19,9	9506	21,1	9094	17,5	7503
66	[38]		8393	-4,4	9659	9,3	9636	9,1	9720	9,9	9352	6,3	8760
78	[50]		8337	4,2	8093	1,3	8150	2	8041	0,7	8155	2,1	7987
79	[50]		8775	5,4	8653	4,1	8503	2,4	8429	1,5	8590	3,4	8300
80	[50]		8349	0,8	8707	4,8	8288	0	8363	0,9	8427	1,7	8285
81	[50]		9754	6,9	9008	-0,8	9212	1,4	9102	0,2	9269	2	9083
82	[50]		8130	7,6	7739	2,9	7671	2	7652	1,8	7798	3,6	7515
83	[50]		8475	8	8354	6,6	8014	2,7	8010	2,6	8213	5	7801
95	[53]		8987	6,4	8354	-0,7	8506	1,1	8401	-0,2	8562	1,7	8415

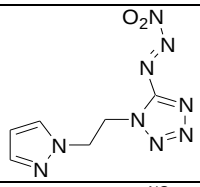
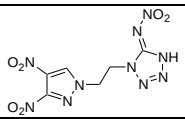
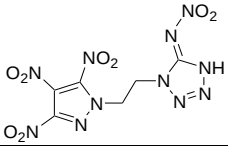
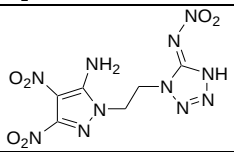
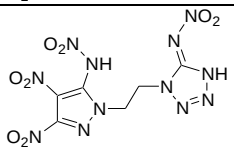
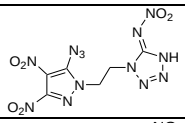
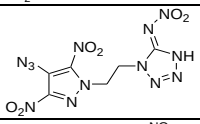
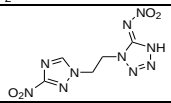
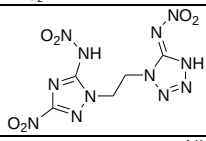
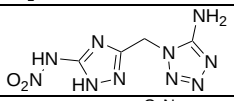
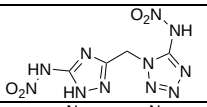
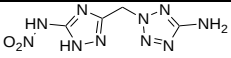
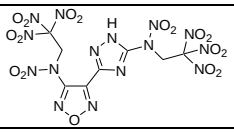
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
109	[56]		9428	-7,6	10855	6,6	9715	-4,4	10282	1,4	10070	-0,7	10142
110	[56]		9497	-0,2	10312	7,7	8173	-16,5	8900	-7	9220	-3,2	9519
111	[56]		9372	-5,5	10556	6,4	9399	-5,2	9778	-1,1	9776	-1,1	9885
112	[56]		9442	-0,3	10504	9,8	8778	-7,9	9361	-1,2	9521	0,5	9472
121	[26]		7842	-6,3	8309	-0,3	8421	1	8380	0,5	8238	-1,2	8336
123	[58]		8731	-7,5	8566	-9,6	8941	-5	9130	-2,8	8842	-6,2	9388
124	[58]		9685	4,7	8653	-6,6	8467	-9	8698	-6,1	8876	-3,9	9225
125	[58]		9231	0,5	8968	-2,4	8953	-2,6	9042	-1,6	9048	-1,5	9186
126	[58]		7315	-9,7	8386	4,3	7489	-7,2	7931	-1,2	7780	-3,2	8027
129	[60]		7701	0	8023	4	7629	-1	7806	1,3	7790	1,1	7702
130	[60]		8225	-0,9	7846	-5,8	8293	-0,1	8190	-1,3	8138	-2	8298

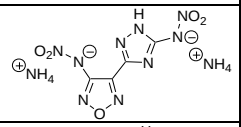
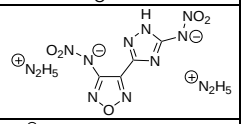
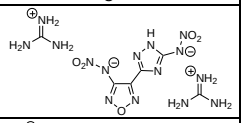
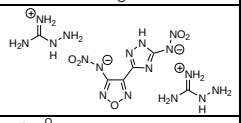
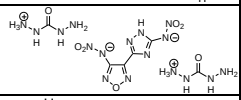
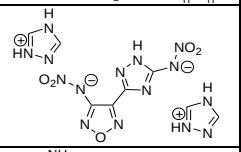
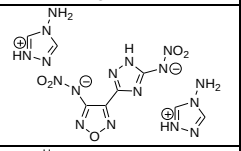
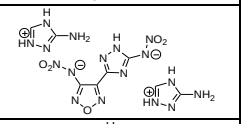
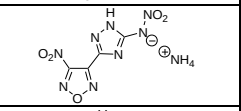
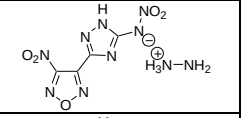
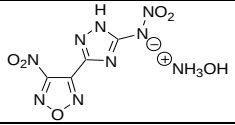
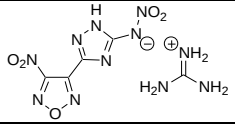
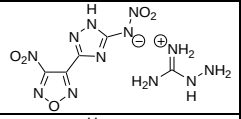
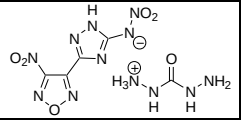
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
136	[62]		8165	-6,7	8582	-1,5	8004	-8,9	8242	-5,7	8248	-5,6	8713
143	[64]		9037	1,9	8908	0,4	8523	-4,1	8631	-2,8	8775	-1,1	8869
144	[64]		9057	1,4	8908	-0,2	8578	-4,1	8680	-2,8	8806	-1,4	8926
150	[65]		7814	-0,7	7486	-5,1	7429	-5,9	7445	-5,7	7544	-4,3	7867
151	[65]		8680	4,9	8583	3,8	8234	-0,3	8273	0,2	8442	2,2	8258
152	[65]		8680	4,8	8583	3,7	8242	-0,3	8280	0,2	8446	2,1	8265
153	[65]		8549	-1,1	8753	1,3	8555	-1	8575	-0,7	8608	-0,4	8639
154	[65]		9265	5,9	9339	6,7	8619	-1,1	8880	1,8	9026	3,4	8717
155	[65]		9265	5,8	9339	6,6	8626	-1,1	8886	1,8	9029	3,4	8724
168	[68]6		9212	4,1	9200	4	8654	-2,1	8790	-0,5	8964	1,5	8834
184	[70]		8711	-0,5	9000	2,7	8588	-1,9	8650	-1,2	8737	-0,2	8753
190	[70]		8675	-0,4	9000	3,2	8546	-1,9	8615	-1,1	8709	0	8710
197	[73]		8578	-5,2	9389	3,9	8648	-4,4	8902	-1,4	8879	-1,6	9025
198	[73]		8709	-3	9045	0,8	8392	-6,9	8719	-2,9	8716	-2,9	8973
199	[73]		7361	-9,8	7834	-3,1	7456	-8,4	7699	-4,9	7588	-6,5	8079
200	[73]		7700	-5,5	8314	2,3	7607	-6,8	7890	-3	7878	-3,1	8125

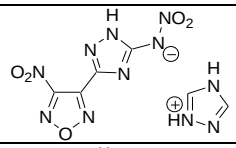
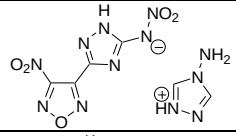
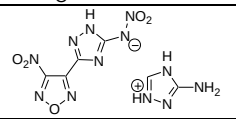
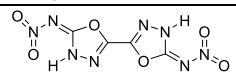
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
201	[73]		7810	-5,5	8098	-1,7	7873	-4,6	7986	-3,1	7942	-3,7	8236
202	[73]		7787	-4,4	8386	3,1	7494	-8,5	7872	-3,3	7885	-3,1	8130
203	[73]		8032	-13,7	9478	3,6	8286	-10,2	8505	-7,4	8575	-6,5	9135
204	[74]		8603	-9,2	9719	3,3	9368	-0,3	9370	-0,3	9265	-1,4	9394
205	[74]		7847	-22,1	9570	-0,1	9061	-5,7	9198	-4,2	8919	-7,4	9581
206	[74]		8569	-3,2	9451	6,4	8479	-4,3	8666	-2	8791	-0,6	8842
207	[74]		7709	-18,3	9139	0,2	8654	-5,4	8765	-4	8567	-6,4	9118
208	[74]		8414	-10,3	9342	0,6	8591	-8	8900	-4,3	8812	-5,3	9282
209	[74]		7429	-21,4	8285	-8,9	8006	-12,7	8524	-5,8	7986	-13	9022
217	[75]		9295	0,7	9127	-1,1	8890	-3,8	8989	-2,6	9075	-1,7	9226
218	[75]		9185	1,6	9183	1,6	8894	-1,6	8960	-0,8	9056	0,2	9034
239	[81]		8293	-5,7	9288	5,7	8175	-7,2	8694	-0,8	8612	-1,8	8763

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
244	[83]		9932	4,3	9213	-3,1	9106	-4,4	9228	-3	9370	-1,4	9503
245	[84]		9207	3,4	7922	-12,2	8368	-6,3	8485	-4,8	8496	-4,6	8891
246	[84]		8798	6,4	7946	-3,6	7647	-7,7	7647	-7,7	8058	-2,2	8234
247	[84]		8151	-3,7	8700	2,8	8099	-4,4	8255	-2,4	8301	-1,8	8453
248	[84]		8787	3,9	8206	-2,9	8234	-2,6	8326	-1,4	8388	-0,7	8445
249	[84]		7196	-13,3	7892	-3,3	6871	-18,6	7293	-11,8	7313	-11,4	8150
250	[84]		9771	2,7	9027	-5,3	9028	-5,3	9235	-2,9	9265	-2,6	9505
251	[84]		9261	9,8	8997	7,1	8134	-2,7	8386	0,3	8694	3,9	8357
252	[84]		8701	-1,8	9115	2,8	8451	-4,8	8677	-2,1	8736	-1,4	8860
253	[84]		9224	4,1	9137	3,2	8717	-1,5	8895	0,6	8993	1,6	8846
272	[91]		8390	-8,5	9171	0,8	8660	-5,1	9027	-0,8	8812	-3,3	9100
274	[91]		8671	-2,6	8897	0	8145	-9,2	8512	-4,5	8556	-4	8898
275	[91]		8430	-9,9	9244	-0,2	8908	-4	9142	-1,4	8931	-3,8	9267
276	[91]		7702	-19,6	8989	-2,5	8412	-9,5	8765	-5,1	8467	-8,8	9214
277	[91]		7072	-27	8564	-4,8	7848	-14,4	8260	-8,7	7936	-13,1	8978
278	[91]		6517	-37,5	8660	-3,5	8032	-11,6	8420	-6,4	7907	-13,4	8963
279	[91]		6805	-31,9	9033	0,6	8350	-7,5	8654	-3,7	8210	-9,4	8978
280	[91]		8067	-10,6	8375	-6,6	8002	-11,5	8330	-7,1	8194	-8,9	8925

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
281	[91]		7606	-18	8479	-5,9	8122	-10,5	8461	-6,1	8167	-9,9	8976
282	[91]		8175	-9,7	8479	-5,7	7934	-13	8309	-7,9	8224	-9	8966
294	[92]		8026	-2,2	8121	-1	7816	-4,9	7917	-3,6	7970	-2,9	8202
334	[96]		9306	0,9	9127	-1,1	8900	-3,7	8997	-2,5	9082	-1,6	9226
344	[96]		9329	-1,9	9933	4,3	9363	-1,5	9594	0,9	9555	0,5	9507
346	[96]		8272	-6,2	9345	6	8368	-5	8721	-0,8	8676	-1,3	8787
351	[96]		8392	-2,7	9344	7,7	8182	-5,4	8678	0,7	8649	0,3	8621
352	[96]		9014	-3,2	10102	7,9	9086	-2,4	9517	2,3	9430	1,4	9301
357	[96]		8921	-3,5	10187	9,3	8591	-7,5	9255	0,2	9238	0	9236
358	[96]		9494	-0,1	9816	3,2	6522	-45,7	7846	-21,1	8420	-12,8	9500
360	[96]		8574	-2,6	9344	5,8	8292	-6,1	8775	-0,3	8746	-0,6	8800
389	[99]		8026	-2,3	8121	-1,1	7816	-5	7917	-3,7	7970	-3	8208
399	[99]		8310	-10	9240	1,1	8591	-6,4	9065	-0,8	8802	-3,9	9141
402	[99]		7665	-2,1	7941	1,5	7337	-6,6	7571	-3,3	7628	-2,6	7824

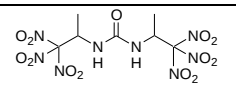
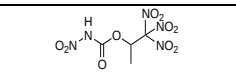
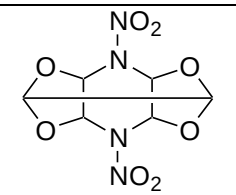
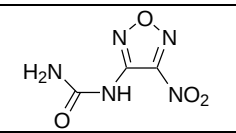
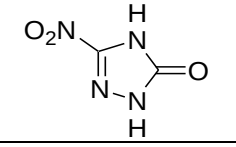
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
403	[99]		7192	2,1	6873	-2,4	6435	-9,4	6895	-2,1	6849	-2,8	7041
411	[99]		8066	-0,6	8689	6,6	7814	-3,8	8031	-1	8150	0,4	8114
414	[99]		8253	-3,7	9155	6,6	8337	-2,6	8529	-0,3	8568	0,2	8555
415	[99]		7738	-8,4	8778	4,4	7990	-5	8201	-2,3	8177	-2,6	8388
416	[99]		8287	-6,2	9224	4,6	8534	-3,2	8712	-1,1	8689	-1,3	8804
418	[99]		8309	-5,3	9209	5	8336	-4,9	8634	-1,3	8622	-1,5	8748
419	[99]		8204	-5,5	9209	6	8270	-4,7	8579	-0,9	8566	-1,1	8659
425	[99]		7590	-6,9	8668	6,4	7534	-7,7	7887	-2,9	7920	-2,4	8113
426	[99]		7758	-12	9346	7	7947	-9,3	8299	-4,7	8338	-4,2	8690
427	[99]		7611	-7,6	8236	0,6	7406	-10,5	7929	-3,3	7796	-5	8187
428	[99]		8222	-6,4	9388	6,8	7847	-11,5	8356	-4,7	8453	-3,5	8750
429	[99]		7644	-7,4	8236	0,3	7411	-10,8	7937	-3,5	7807	-5,2	8213
435	[101]		10100	7,4	9560	2,1	9383	0,3	9455	1,1	9624	2,8	9355

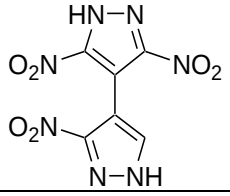
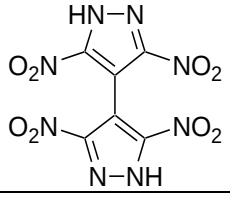
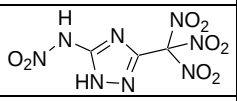
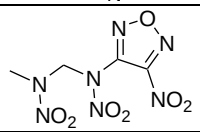
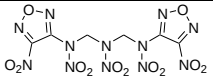
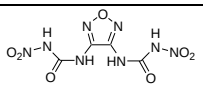
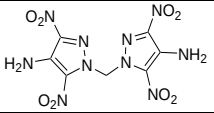
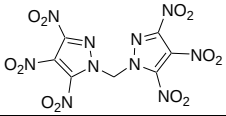
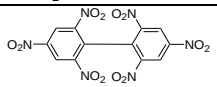
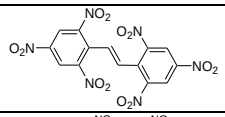
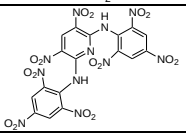
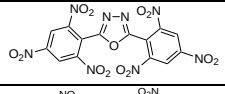
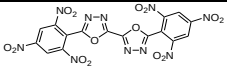
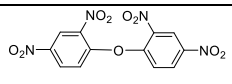
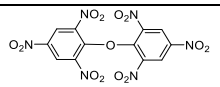
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
436	[101]		8861	-0,4	9163	2,9	8274	-7,5	8549	-4,1	8712	-2,1	8897
437	[101]		7947	-13,8	9281	2,5	8716	-3,8	8949	-1,1	8723	-3,7	9045
438	[101]		6635	-19,7	8748	9,2	7260	-9,4	7740	-2,6	7596	-4,6	7942
439			6301	-34,2	8872	4,7	7723	-9,5	8109	-4,3	7751	-9,1	8455
440	[101]		6517	-25,2	9198	11,3	8000	-2	8300	1,7	8004	-1,9	8159
441			7905	-5,5	8466	1,5	7763	-7,4	8055	-3,6	8047	-3,7	8341
442	[101]		7945	-8,8	8604	-0,4	7934	-8,9	8233	-5	8179	-5,7	8642
443	[101]		7405	-13,1	8604	2,7	7640	-9,6	8006	-4,6	7914	-5,8	8373
444	[101]		8748	0,4	8998	3,1	8371	-4,1	8610	-1,2	8682	-0,4	8716
445	[101]		8384	-8,1	9297	2,5	8677	-4,4	8892	-1,9	8812	-2,8	9060
446	[101]		8695	-3	9383	4,6	8747	-2,4	8913	-0,5	8934	-0,2	8954
447	[101]		7419	-7,7	8964	10,9	7576	-5,5	7951	-0,5	7978	-0,2	7990
448	[101]		7202	-13,7	9033	9,4	7771	-5,4	8120	-0,8	8032	-1,9	8187
449	[101]		7319	-12,8	9196	10,2	7932	-4,1	8238	-0,2	8171	-1	8256

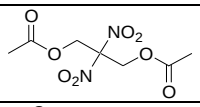
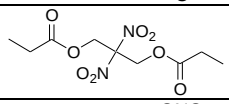
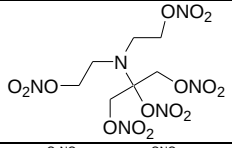
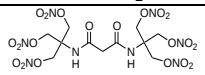
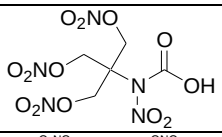
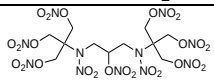
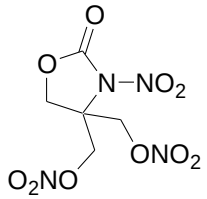
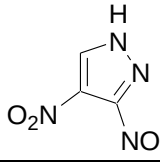
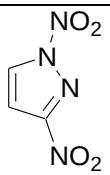
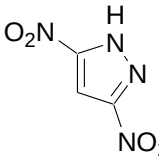
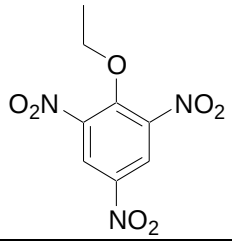
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450	[101]		8008	-2,4	8778	6,6	7773	-5,5	8084	-1,4	8161	-0,4	8197
451	[101]		8157	-3,3	8853	4,8	7962	-5,8	8261	-2	8308	-1,4	8424
452	[101]		7795	-4,6	8853	7,9	7697	-5,9	8048	-1,3	8098	-0,7	8151
453	[102]		8765	-7,9	8566	-10,4	8790	-7,6	9006	-5	8782	-7,7	9457

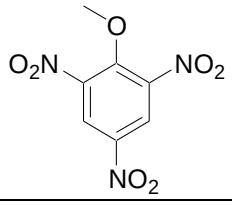
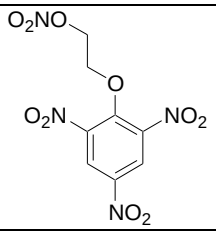
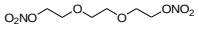
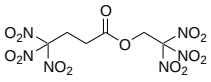
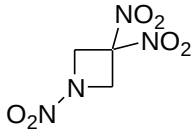
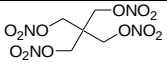
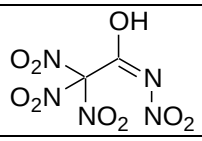
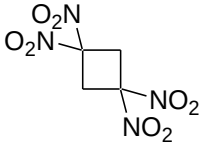
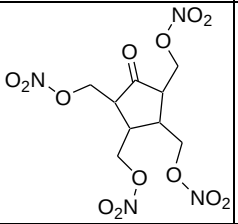
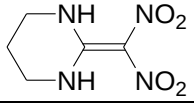
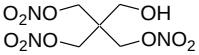
2.2.9 The detonation velocities of molecules containing nitro groups

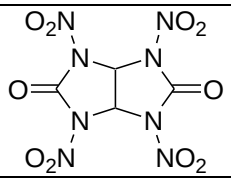
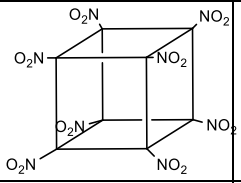
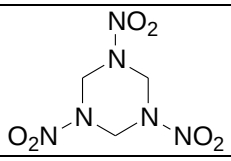
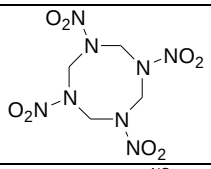
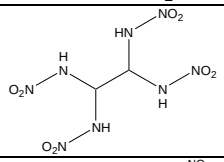
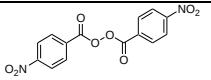
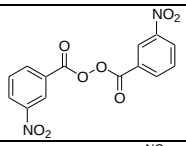
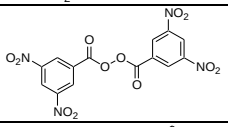
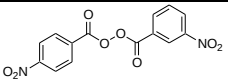
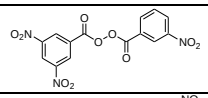
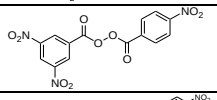
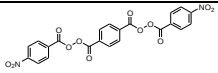
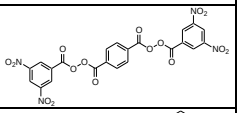
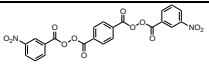
Table 39. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the molecules containing nitro groups.

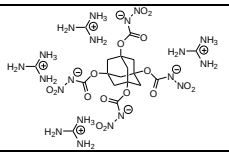
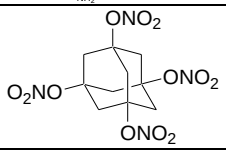
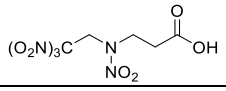
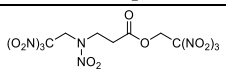
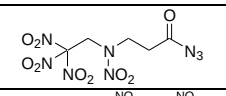
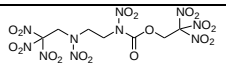
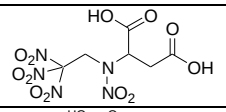
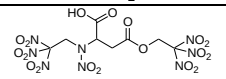
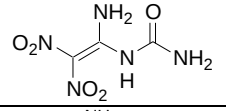
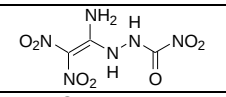
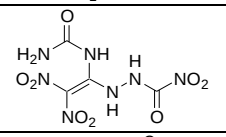
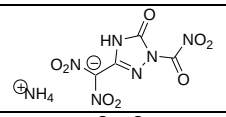
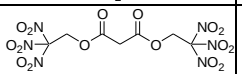
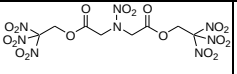
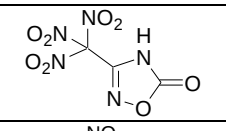
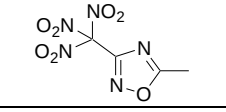
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
1	[22]		8263	-2,5	8400	-0,8	8547	0,9	8388	-1	8399	-0,8	8469
2	[22]		7777	1,2	8582	10,5	7953	3,4	8006	4,1	7912	2,9	7680
3	[23] [24]		8822	2,3	6896	-24,9	8139	-5,8	7832	-10	8092	-6,5	8615
4	[25]		7511	-3,3	8516	8,9	7751	-0,1	7979	2,8	7939	2,3	7759
5	[23] [26]		8327	-2,6	8753	2,4	8081	-5,7	8396	-1,8	8389	-1,8	8543

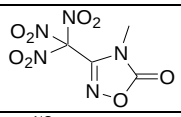
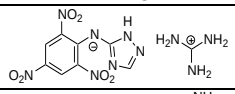
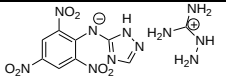
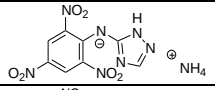
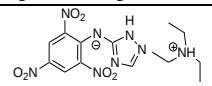
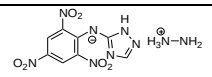
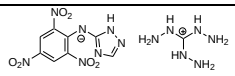
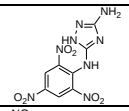
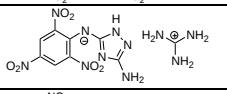
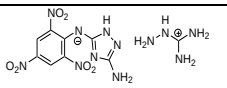
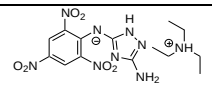
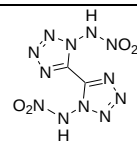
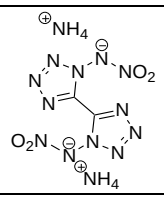
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
6	[27]		8228	-0,3	8365	1,3	8019	-3	7997	-3,2	8123	-1,6	8256
7	[27]		8394	-1,5	8908	4,4	8232	-3,5	8379	-1,7	8478	-0,5	8520
9	[28]		8920	-3,7	9750	5,1	9397	1,6	9580	3,4	9409	1,7	9250
10	[29]		8433	-1,9	9184	6,4	8579	-0,2	8644	0,6	8710	1,3	8596
11	[29]		9912	5,8	9600	2,8	9248	-0,9	9364	0,3	9531	2,1	9334
16	[25]		7901	-9,9	8908	2,5	8487	-2,3	8671	-0,2	8492	-2,3	8685
17	[31]		8223	-1,3	8642	3,6	8016	-3,9	8132	-2,5	8253	-1	8332
18	[31]		9733	4,4	9201	-1,1	9029	-3	9094	-2,3	9264	-0,4	9304
19	[32] [26]		7609	1,4	7314	-2,5	7355	-2	7298	-2,8	7394	-1,4	7500
20	[32]		7369	-3,3	6830	-11,4	7276	-4,6	7116	-7	7148	-6,5	7612
21	[32]		7420	-4,5	7462	-4	7421	-4,5	7379	-5,1	7420	-4,5	7757
22	[32] [33]		8083	3	7350	-6,7	7543	-3,9	7478	-4,8	7614	-3	7840
23	[32]		8543	6	7377	-8,9	7547	-6,4	7486	-7,3	7738	-3,8	8030
24	[34]		7290	9,7	6277	-4,9	6827	3,6	6623	0,6	6754	2,5	6582
25	[34]		8201	6,9	7449	-2,5	7794	2,1	7617	-0,2	7765	1,7	7634

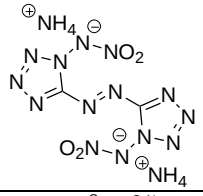
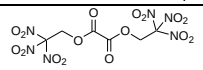
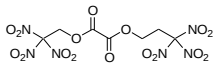
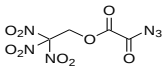
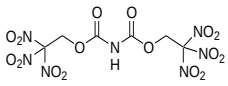
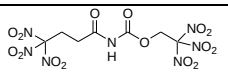
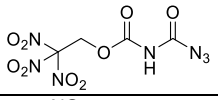
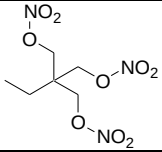
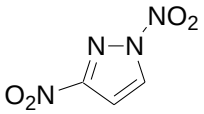
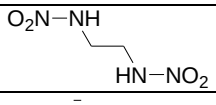
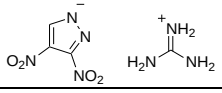
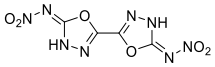
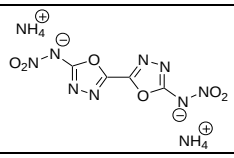
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
29	[35]		6297	9,8	5396	-5,3	5796	1,9	5916	3,9	5851	2,9	5683
30	[35]		5652	9,6	4641	-10,1	5224	2,2	5435	6	5238	2,4	5111
31	[36]		8368	3,7	8008	-0,6	8393	4	8158	1,2	8232	2,1	8059
32	[36]		7654	-3,1	7548	-4,5	7911	0,3	7726	-2,1	7710	-2,3	7891
33	[36]		8307	3,1	8209	2	8495	5,3	8356	3,7	8434	4,6	8048
34	[36]		9319	8,3	8384	-2	8869	3,6	8622	0,8	8798	2,8	8550
35	[36]		8727	5,3	7679	-7,6	8165	-1,2	8008	-3,2	8145	-1,5	8266
36	[37]		8082	-4,3	8824	4,5	8257	-2	8336	-1,1	8375	-0,6	8426
37	[37]		8235	-2,7	8824	4,1	8295	-2	8378	-1	8433	-0,3	8459
38	[37]		8048	-2,9	8824	6,2	8113	-2	8215	-0,8	8300	0,3	8279
39	[26]		6845	4,4	6303	-3,8	6741	2,9	6598	0,8	6622	1,2	6545

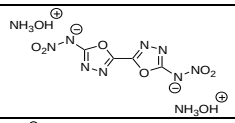
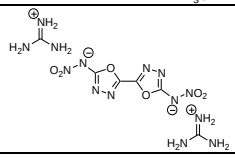
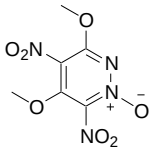
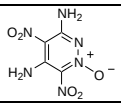
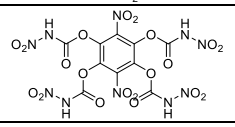
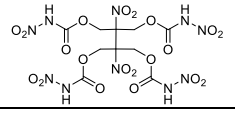
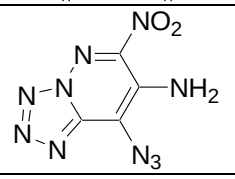
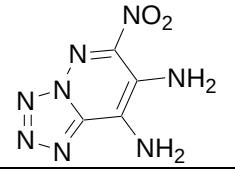
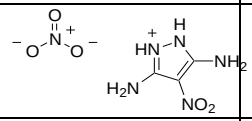
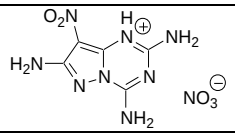
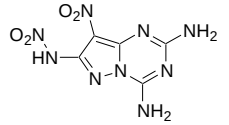
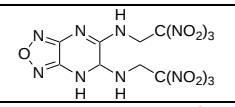
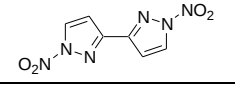
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
40	[38]		7502	6,2	6800	-3,5	7263	3,1	7059	0,3	7156	1,7	7035
41	[38]		7742	3,5	7290	-2,5	7684	2,8	7476	0,1	7548	1	7470
44	[38]		6473	-0,4	5848	-11,1	6468	-0,5	6354	-2,3	6286	-3,4	6498
45	[38]		8852	2,7	8537	-0,9	8658	0,5	8534	-1	8645	0,3	8616
48	[41]		8718	-2,6	8676	-3,1	9047	1,1	8905	-0,5	8836	-1,3	8947
51	[44]		8620	1,1	8077	-5,5	8652	1,5	8375	-1,8	8431	-1,1	8525
54	[38]		9325	19,5	8176	8,2	9370	19,9	9506	21,1	9094	17,5	7503
55	[38]		8730	1	8575	-0,8	8873	2,6	8696	0,6	8718	0,8	8646
56	[38]		7219	-4,1	6786	-10,8	7308	-2,9	7108	-5,8	7105	-5,8	7518
59	[47]		6958	-13,6	6292	-25,7	7331	-7,8	7163	-10,4	6936	-14	7906
60	[38]		7550	-3	7540	-3,1	7683	-1,2	7484	-3,9	7564	-2,8	7777

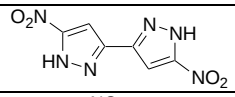
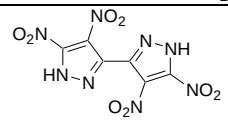
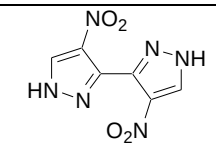
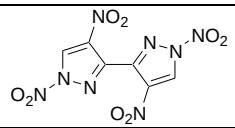
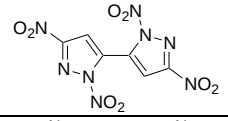
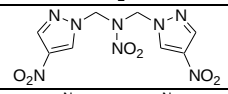
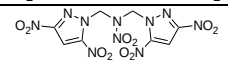
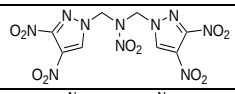
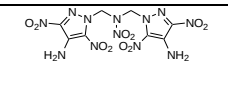
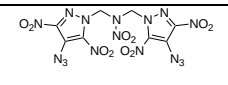
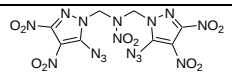
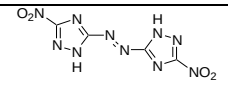
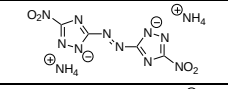
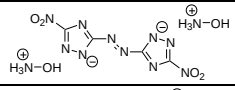
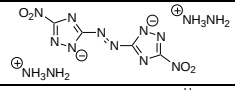
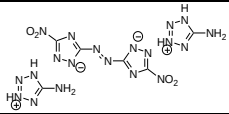
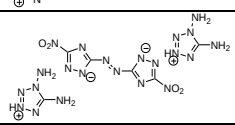
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
61	[38]		10004	0,6	8856	-12,3	9548	-4,2	9617	-3,4	9506	-4,6	9946
62	[38]		9623	0,6	8928	-7,1	9469	-1	9443	-1,3	9366	-2,1	9562
64	[26]		8237	-7,8	8940	0,6	8771	-1,3	8765	-1,3	8773	-1,2	8882
65	[38]		9184	-1,1	9042	-2,7	9149	-1,5	9077	-2,3	9113	-1,9	9286
66	[38]		8393	-4,4	9659	9,3	9636	9,1	9720	9,9	9352	6,3	8760
67	[48]		6354	3,5	4197	-46	5752	-6,6	5577	-9,9	5470	-12	6129
68	[48]		6354	3,5	4197	-46,1	5757	-6,5	5582	-9,8	5471	-12	6130
69	[48]		7183	1,3	5893	-20,3	6853	-3,4	6662	-6,4	6648	-6,6	7087
70	[48]		6517	1,9	4197	-52,4	5909	-8,2	5657	-13	5570	-14,8	6395
71	[48]		6863	1	5158	-31,8	6451	-5,3	6219	-9,3	6173	-10,1	6796
72	[48]		6835	1,1	5158	-31	6425	-5,2	6204	-8,9	6156	-9,8	6757
73	[48]		5310	-0,1	3642	-45,9	5179	-2,6	5189	-2,4	4830	-10	5315
74	[48]		5895	-1,9	4929	-21,9	5897	-1,9	5882	-2,1	5651	-6,3	6007
75	[48]		5288	0,1	3642	-45,1	5980	11,6	5910	10,6	5205	-1,5	5284

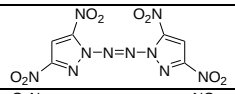
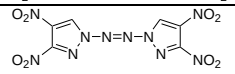
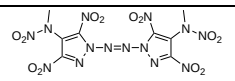
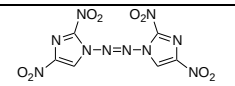
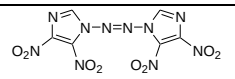
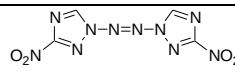
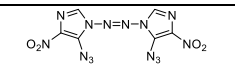
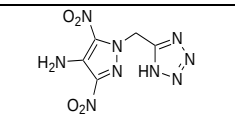
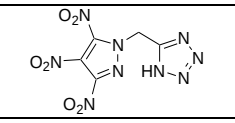
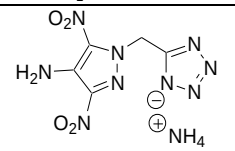
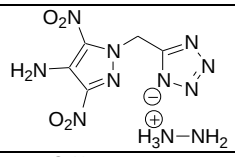
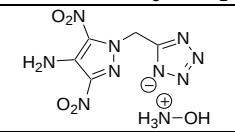
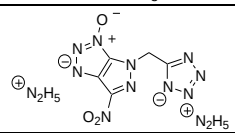
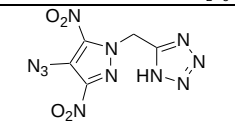
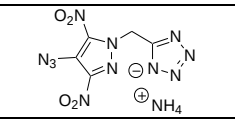
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
76	[49]		3538	-92,5	6836	0,4	6308	-7,9	6589	-3,3	5900	-15,4	6809
77	[49]		7348	0,9	6556	-11,1	7435	2,1	7121	-2,3	7115	-2,3	7282
78	[50]		8337	4,2	8093	1,3	8150	2	8041	0,7	8155	2,1	7987
79	[50]		8775	5,4	8653	4,1	8503	2,4	8429	1,5	8590	3,4	8300
80	[50]		8349	0,8	8707	4,8	8288	0	8363	0,9	8427	1,7	8285
81	[50]		9754	6,9	9008	-0,8	9212	1,4	9102	0,2	9269	2	9083
82	[50]		8130	7,6	7739	2,9	7671	2	7652	1,8	7798	3,6	7515
83	[50]		8475	8	8354	6,6	8014	2,7	8010	2,6	8213	5	7801
90	[52]		7922	-7,5	8184	-4,1	8067	-5,6	8183	-4,1	8089	-5,3	8516
91	[52]		7978	-7,5	9009	4,8	8512	-0,8	8634	0,7	8533	-0,5	8576
92	[52]		7394	4,2	8573	17,4	7818	9,4	8043	11,9	7957	11	7085
93	[52]		8306	-0,6	8573	2,5	8225	-1,6	8370	0,1	8369	0,1	8359
94	[53]		8790	6	8197	-0,8	8361	1,2	8262	0	8402	1,7	8263
95	[53]		8987	6,4	8354	-0,7	8506	1,1	8401	-0,2	8562	1,7	8415
96	[54]		9158	3,9	8870	0,8	9619	8,5	9658	8,9	9326	5,7	8798
97	[54]		8696	-1	8980	2,2	8686	-1,1	8655	-1,4	8754	-0,3	8779

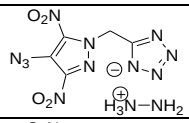
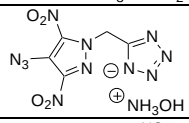
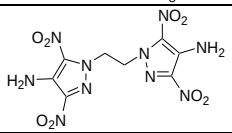
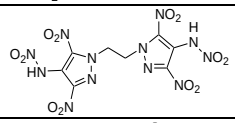
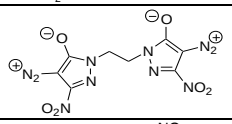
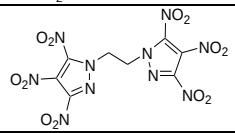
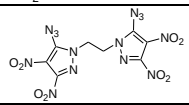
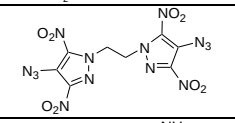
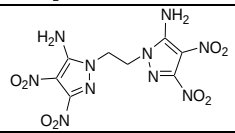
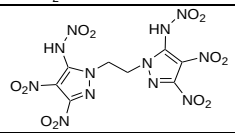
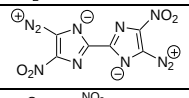
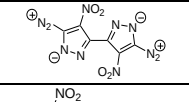
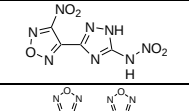
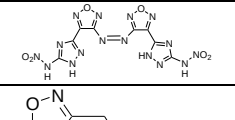
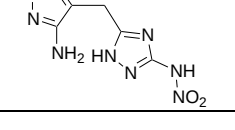
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
98	[54]		8655	-1,7	8404	-4,8	8868	0,7	8835	0,4	8690	-1,3	8804
99	[55]		6680	-12,9	7482	-0,8	6988	-7,9	7140	-5,6	7072	-6,7	7543
100	[55]		6849	-21,2	7610	-9,1	7499	-10,7	7554	-9,9	7378	-12,5	8302
101	[55]		8064	-4,2	7486	-12,2	7729	-8,7	7651	-9,8	7732	-8,6	8400
102	[55]		5734	-21	5337	-30	6036	-14,9	6033	-15	5785	-19,9	6937
103	[55]		6913	-10,5	7630	-0,1	7233	-5,6	7339	-4,1	7279	-5	7640
104	[55]		5911	-28,5	7837	3,1	7086	-7,2	7316	-3,8	7038	-7,9	7597
105	[55]		7579	-7,9	7635	-7,1	7540	-8,5	7554	-8,3	7577	-7,9	8178
106	[55]		6281	-14,8	7610	5,3	6734	-7,1	6998	-3	6906	-4,4	7209
107	[55]		6277	-22	7728	0,9	7051	-8,6	7264	-5,4	7080	-8,1	7657
108	[55]		5704	-19,2	5530	-23	5949	-14,3	6030	-12,8	5803	-17,2	6802
109	[56]		9428	-7,6	10855	6,6	9715	-4,4	10282	1,4	10070	-0,7	10142
110	[56]		9497	-0,2	10312	7,7	8173	-16,5	8900	-7	9220	-3,2	9519
111	[56]		9372	-5,5	10556	6,4	9399	-5,2	9778	-1,1	9776	-1,1	9885

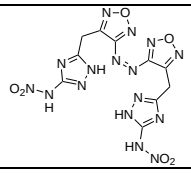
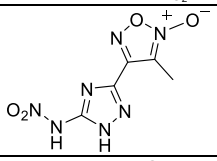
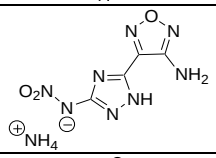
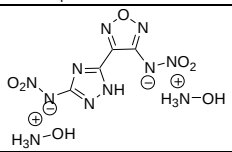
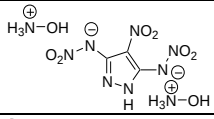
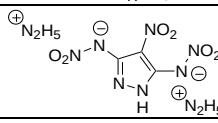
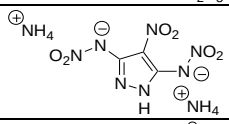
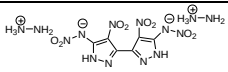
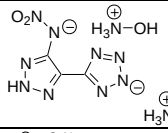
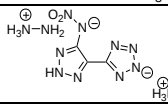
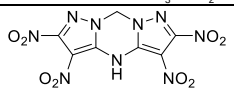
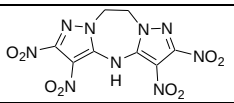
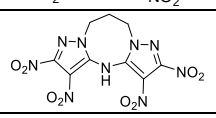
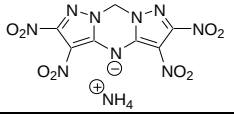
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
112	[56]		9442	-0,3	10504	9,8	8778	-7,9	9361	-1,2	9521	0,5	9472
113	[57]		9317	11,2	8017	-3,2	8813	6,1	8724	5,1	8718	5,1	8275
114	[57]		8674	7	8197	1,5	8305	2,8	8220	1,8	8349	3,3	8071
115	[57]		8641	4,8	8574	4,1	8353	1,6	8496	3,2	8516	3,4	8223
116	[57]		9413	7,8	8251	-5,1	8967	3,3	8867	2,2	8874	2,2	8675
117	[57]		8003	3,7	8303	7,2	7889	2,4	7905	2,6	7932	2,9	7703
118	[57]		7515	4	8697	17,1	7385	2,3	7727	6,7	7831	7,9	7213
119	[26]		7141	0,6	6815	-4,1	7298	2,8	7074	-0,3	7082	-0,2	7097
120	[37]		8235	-2,3	8824	4,5	8295	-1,6	8378	-0,6	8433	0,1	8426
121	[26]		7842	-6,3	8309	-0,3	8421	1	8380	0,5	8238	-1,2	8336
122	[37]		7013	-19,3	8283	-1	7290	-14,8	7560	-10,7	7536	-11,1	8369
123	[58]		8731	-7,5	8566	-9,6	8941	-5	9130	-2,8	8842	-6,2	9388
124	[58]		9685	4,7	8653	-6,6	8467	-9	8698	-6,1	8876	-3,9	9225

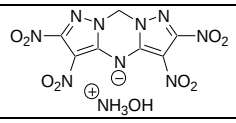
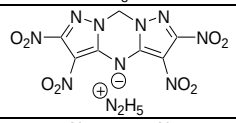
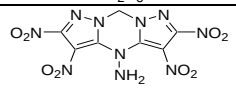
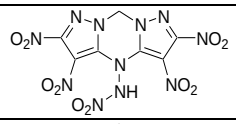
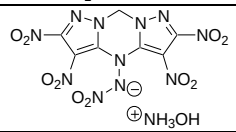
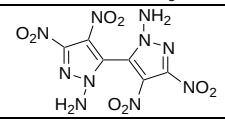
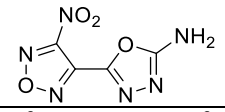
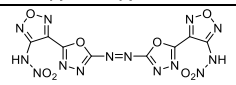
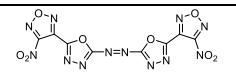
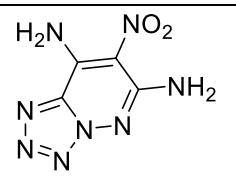
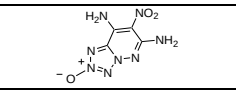
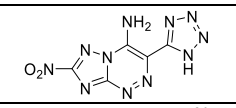
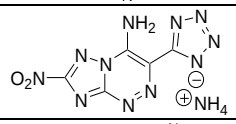
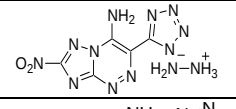
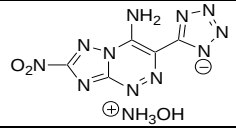
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
125	[58]		9231	0,5	8968	-2,4	8953	-2,6	9042	-1,6	9048	-1,5	9186
126	[58]		7315	-9,7	8386	4,3	7489	-7,2	7931	-1,2	7780	-3,2	8027
127	[59]		7362	1,8	7213	-0,2	7314	1,2	7240	0,2	7282	0,8	7227
128	[59]		8001	-6,1	8725	2,7	8266	-2,7	8335	-1,8	8332	-1,8	8486
129	[60]		7701	0	8023	4	7629	-1	7806	1,3	7790	1,1	7702
130	[60]		8225	-0,9	7846	-5,8	8293	-0,1	8190	-1,3	8138	-2	8298
131	[61]		8540	-2,4	9212	5,1	8079	-8,3	8608	-1,6	8610	-1,6	8746
132	[61]		8064	-4,6	8179	-3,1	7630	-10,5	8025	-5,1	7974	-5,8	8434
133	[62]		7398	-13,8	8818	4,5	8174	-3	8290	-1,6	8170	-3,1	8420
135	[62]		7758	-8,2	8634	2,8	7776	-7,9	8011	-4,7	8045	-4,3	8391
136	[62]		8165	-6,7	8582	-1,5	8004	-8,9	8242	-5,7	8248	-5,6	8713
138	[63]		8005	-5	8907	5,6	8430	0,2	8483	0,9	8456	0,6	8409
139	[64]		8320	0,2	7503	-10,6	7718	-7,6	7728	-7,4	7817	-6,2	8301

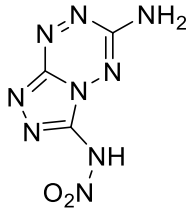
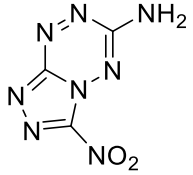
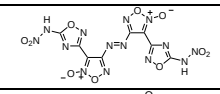
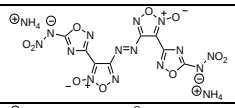
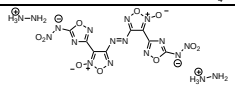
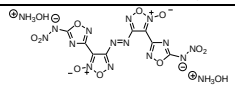
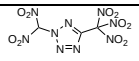
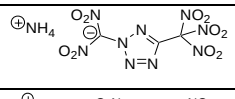
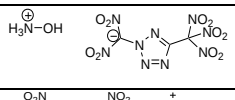
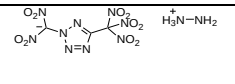
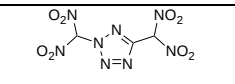
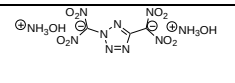
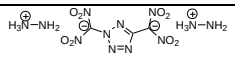
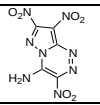
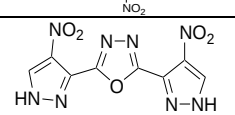
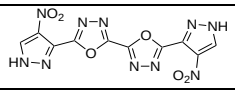
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
140	[64]		7794	-3	7503	-7	7425	-8,1	7481	-7,3	7551	-6,3	8026
141	[64]		8464	-1,1	8908	4	8079	-5,9	8251	-3,7	8426	-1,5	8556
142	[64]		7858	-3,3	7503	-8,2	7469	-8,7	7512	-8,1	7586	-7	8120
143	[64]		9037	1,9	8908	0,4	8523	-4,1	8631	-2,8	8775	-1,1	8869
144	[64]		9057	1,4	8908	-0,2	8578	-4,1	8680	-2,8	8806	-1,4	8926
150	[65]		7814	-0,7	7486	-5,1	7429	-5,9	7445	-5,7	7544	-4,3	7867
151	[65]		8680	4,9	8583	3,8	8234	-0,3	8273	0,2	8442	2,2	8258
152	[65]		8680	4,8	8583	3,7	8242	-0,3	8280	0,2	8446	2,1	8265
153	[65]		8549	-1,1	8753	1,3	8555	-1	8575	-0,7	8608	-0,4	8639
154	[65]		9265	5,9	9339	6,7	8619	-1,1	8880	1,8	9026	3,4	8717
155	[65]		9265	5,8	9339	6,6	8626	-1,1	8886	1,8	9029	3,4	8724
156	[66]		8702	-2,9	9602	6,8	8421	-6,3	8845	-1,2	8892	-0,7	8952
157	[66]		8851	2,1	9200	5,8	7984	-8,5	8405	-3,1	8610	-0,6	8665
158	[66]		8767	-1	9558	7,3	8402	-5,4	8715	-1,6	8860	0	8857
159	[66]		8065	-13	9287	1,9	8359	-9	8749	-4,2	8615	-5,8	9114
160	[66]		7995	-2,9	9525	13,6	7862	-4,6	8448	2,6	8458	2,7	8226
161	[66]		8381	-3,8	9565	9	7826	-11,2	8494	-2,4	8566	-1,6	8702

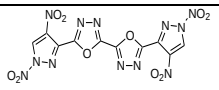
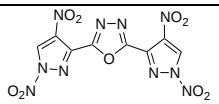
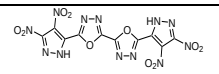
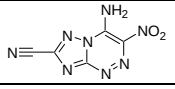
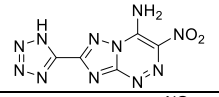
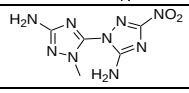
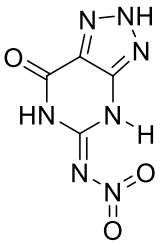
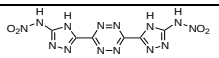
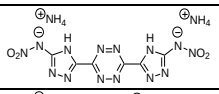
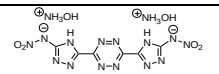
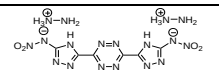
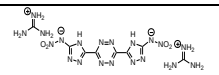
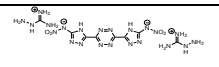
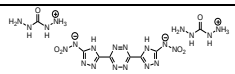
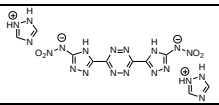
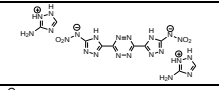
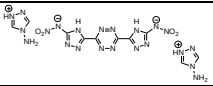
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
166	[68]4		9010	7,9	9202	9,8	8559	3	8773	5,4	8886	6,6	8298
167	[68]5		9048	0,9	9202	2,6	8592	-4,3	8801	-1,9	8911	-0,6	8964
168	[68]6		9212	4,1	9200	4	8654	-2,1	8790	-0,5	8964	1,5	8834
169	[68]7		9165	2	9202	2,4	8600	-4,4	8799	-2	8942	-0,4	8979
170	[68]8		9087	1,7	9202	2,9	8554	-4,4	8762	-1,9	8901	-0,3	8932
171	[68]		8939	1,3	9602	8,1	8373	-5,4	8799	-0,3	8928	1,2	8825
172	[68]		8687	-0,2	9365	7,1	8056	-8	8557	-1,7	8666	-0,4	8702
173	[69]		8234	-3,8	8582	0,4	7944	-7,6	8188	-4,4	8237	-3,8	8548
174	[69]		8843	0	9144	3,3	8488	-4,2	8690	-1,8	8791	-0,6	8845
175	[69]		7998	-1,9	8433	3,3	7614	-7,1	7900	-3,2	7986	-2,1	8153
176	[69]		7458	-10,8	8521	3	7696	-7,4	7992	-3,4	7917	-4,4	8264
177	[69]		8096	-6,1	8696	1,2	8118	-5,8	8293	-3,6	8301	-3,5	8592
178	[69]		7755	-13,2	8342	-5,2	7914	-10,9	8269	-6,2	8070	-8,8	8778
179	[69]		8573	-1,6	9200	5,4	8194	-6,3	8579	-1,5	8636	-0,8	8707
180	[69]		8223	0,7	9028	9,5	7740	-5,5	8150	-0,2	8285	1,4	8167

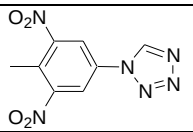
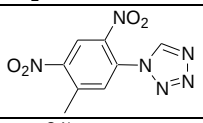
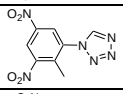
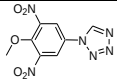
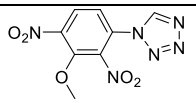
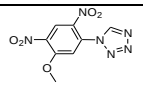
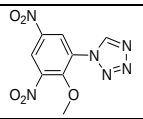
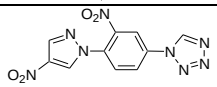
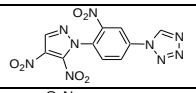
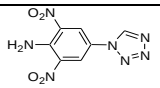
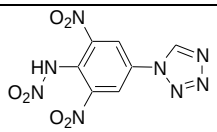
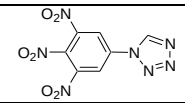
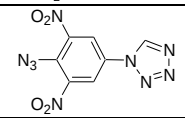
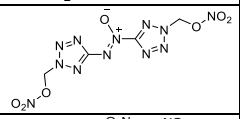
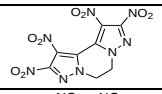
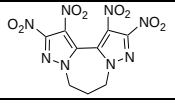
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
181	[69]		8077	-7	9081	4,9	8137	-6,2	8503	-1,6	8450	-2,2	8640
182	[69]		8526	-2,6	9210	5	8354	-4,7	8652	-1,1	8686	-0,7	8747
183	[70]		7903	-3,6	8238	0,6	7815	-4,8	7871	-4	7957	-2,9	8189
184	[70]		8711	-0,5	9000	2,7	8588	-1,9	8650	-1,2	8737	-0,2	8753
185	[70]		8072	3,3	8180	4,6	7352	-6,1	7599	-2,7	7801	0	7803
186	[70]		9139	4,2	8852	1,1	8551	-2,4	8588	-2	8782	0,3	8759
187	[70]		8737	-0,7	8991	2,2	8398	-4,8	8651	-1,7	8694	-1,2	8797
188	[70]		8661	1,2	8991	4,8	8170	-4,7	8444	-1,4	8566	0,1	8558
189	[70]		7836	-3,7	8238	1,3	7772	-4,6	7839	-3,7	7921	-2,6	8127
190	[70]		8675	-0,4	9000	3,2	8546	-1,9	8615	-1,1	8709	0	8710
195	[72]		8681	0,3	8964	3,5	7927	-9,2	8344	-3,7	8479	-2,1	8653
196	[72]		8754	-2,2	8964	0,2	8189	-9,2	8580	-4,2	8622	-3,7	8943
197	[73]		8578	-5,2	9389	3,9	8648	-4,4	8902	-1,4	8879	-1,6	9025
198	[73]		8709	-3	9045	0,8	8392	-6,9	8719	-2,9	8716	-2,9	8973
199	[73]		7361	-9,8	7834	-3,1	7456	-8,4	7699	-4,9	7588	-6,5	8079

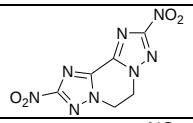
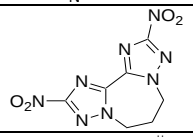
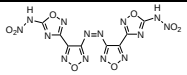
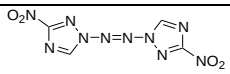
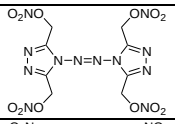
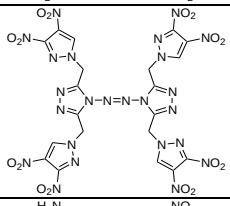
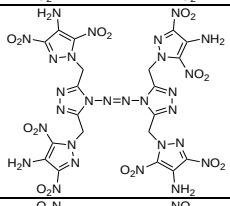
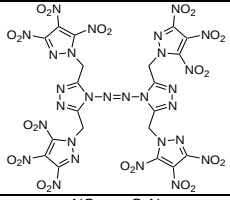
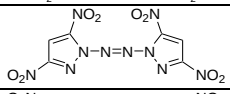
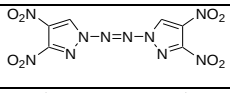
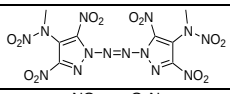
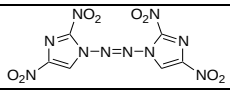
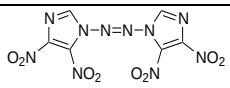
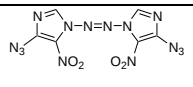
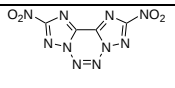
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
200	[73]		7700	-5,5	8314	2,3	7607	-6,8	7890	-3	7878	-3,1	8125
201	[73]		7810	-5,5	8098	-1,7	7873	-4,6	7986	-3,1	7942	-3,7	8236
202	[73]		7787	-4,4	8386	3,1	7494	-8,5	7872	-3,3	7885	-3,1	8130
203	[73]		8032	-13,7	9478	3,6	8286	-10,2	8505	-7,4	8575	-6,5	9135
204	[74]		8603	-9,2	9719	3,3	9368	-0,3	9370	-0,3	9265	-1,4	9394
205	[74]		7847	-22,1	9570	-0,1	9061	-5,7	9198	-4,2	8919	-7,4	9581
206	[74]		8569	-3,2	9451	6,4	8479	-4,3	8666	-2	8791	-0,6	8842
207	[74]		7709	-18,3	9139	0,2	8654	-5,4	8765	-4	8567	-6,4	9118
208	[74]		8414	-10,3	9342	0,6	8591	-8	8900	-4,3	8812	-5,3	9282
209	[74]		7429	-21,4	8285	-8,9	8006	-12,7	8524	-5,8	7986	-13	9022
210	[75]		8785	-0,1	8664	-1,5	8400	-4,7	8475	-3,7	8562	-2,7	8792
211	[75]		8232	-0,3	8240	-0,2	7908	-4,4	7964	-3,7	8086	-2,1	8257
212	[75]		7885	-2,1	7847	-2,6	7671	-5	7680	-4,8	7771	-3,6	8051
213	[75]		8815	3,4	8642	1,4	8218	-3,7	8296	-2,7	8493	-0,3	8518

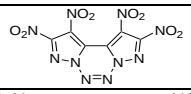
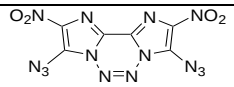
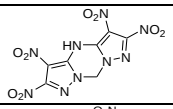
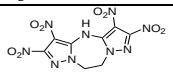
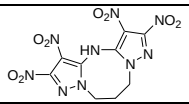
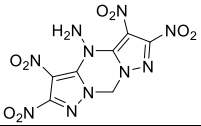
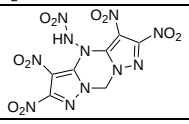
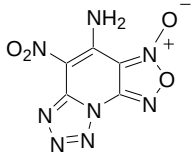
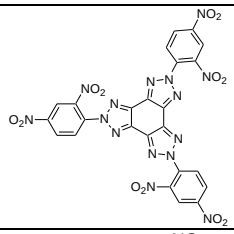
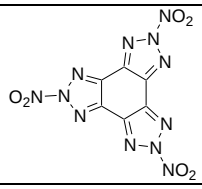
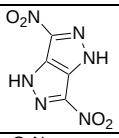
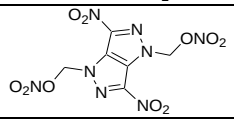
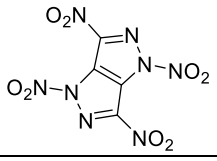
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
214	[75]		8802	-1	8759	-1,5	8549	-4	8572	-3,7	8670	-2,6	8893
215	[75]		8373	-3,8	8732	0,5	8384	-3,6	8460	-2,7	8487	-2,4	8690
216	[75]		8460	1,2	8758	4,6	8035	-4	8201	-1,9	8364	0,1	8356
217	[75]		9295	0,7	9127	-1,1	8890	-3,8	8989	-2,6	9075	-1,7	9226
218	[75]		9185	1,6	9183	1,6	8894	-1,6	8960	-0,8	9056	0,2	9034
219	[76]		8285	-2,6	9080	6,3	8263	-2,9	8449	-0,7	8519	0,2	8504
220	[77]		8240	1,7	8781	7,7	7724	-4,9	7991	-1,4	8184	1	8102
221	[77]		8945	6	8660	2,9	7940	-5,9	8295	-1,4	8460	0,6	8409
222	[77]		9598	8,3	8954	1,7	8170	-7,7	8475	-3,8	8683	-1,3	8800
223	[78]		8297	-7,3	8179	-8,8	7731	-15,1	8115	-9,7	8080	-10,1	8899
224	[78]		8464	-6,6	8669	-4,1	8281	-8,9	8530	-5,8	8486	-6,3	9021
231	[80]		8711	-3,4	8709	-3,5	7792	-15,6	8300	-8,6	8378	-7,5	9010
233	[80]		8786	-0,1	8292	-6	7565	-16,2	8091	-8,7	8184	-7,4	8793
234	[80]		8466	-5,7	8309	-7,7	7932	-12,8	8403	-6,5	8278	-8,1	8950
235	[80]		8804	-4,7	8761	-5,2	8064	-14,3	8457	-9	8522	-8,2	9220

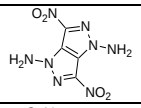
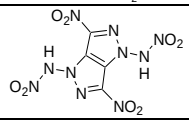
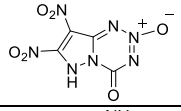
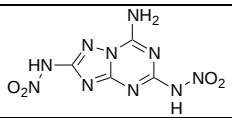
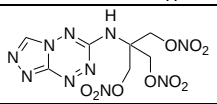
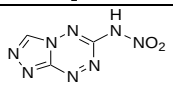
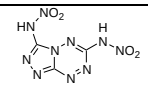
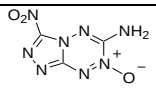
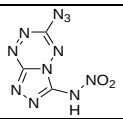
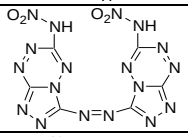
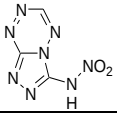
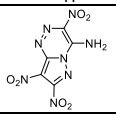
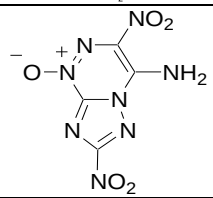
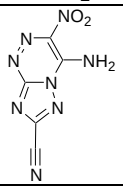
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
239	[81]		8293	-5,7	9288	5,7	8175	-7,2	8694	-0,8	8612	-1,8	8763
240	[81]		8647	-3,5	9344	4,2	8374	-6,9	8846	-1,2	8803	-1,7	8953
250	[84]		9771	2,7	9027	-5,3	9028	-5,3	9235	-2,9	9265	-2,6	9505
251	[84]		9261	9,8	8997	7,1	8134	-2,7	8386	0,3	8694	3,9	8357
252	[84]		8701	-1,8	9115	2,8	8451	-4,8	8677	-2,1	8736	-1,4	8860
253	[84]		9224	4,1	9137	3,2	8717	-1,5	8895	0,6	8993	1,6	8846
254	[85]		9651	11,8	9252	8	9432	9,8	9684	12,1	9505	10,5	8511
255	[85]		9317	7,5	9678	11	9109	5,4	9332	7,7	9359	7,9	8617
256	[85]		9683	6,5	9450	4,2	9729	6,9	9873	8,3	9762	7,3	9054
257	[85]		8926	0,1	9881	9,7	8889	-0,3	9166	2,7	9216	3,2	8920
258	[85]		9515	4,1	9750	6,4	9393	2,9	9587	4,8	9561	4,6	9123
259	[85]		9214	-4,1	10057	4,6	9558	-0,3	9604	0,1	9608	0,2	9590
260	[85]		8272	-11,6	9998	7,7	9167	-0,7	9329	1,1	9192	-0,4	9230
261	[86]		8935	2,2	9062	3,6	8479	-3	8657	-0,9	8783	0,5	8737
262	[87]		7987	-1,4	7264	-11,5	7508	-7,9	7594	-6,6	7588	-6,7	8099
263	[87]		8243	2,3	7098	-13,5	7431	-8,4	7553	-6,6	7581	-6,2	8054

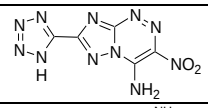
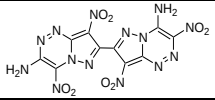
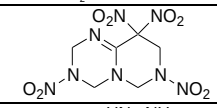
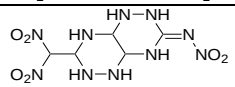
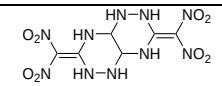
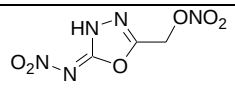
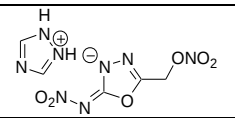
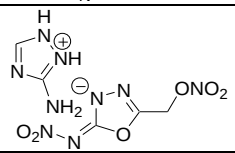
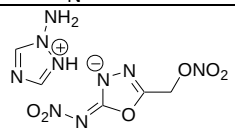
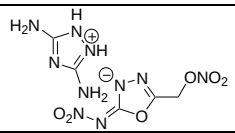
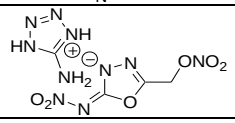
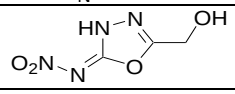
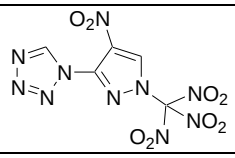
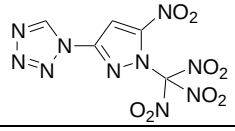
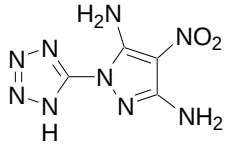
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
264	[87]		9423	6	8102	-9,3	7499	-18,1	7771	-13,9	8199	-8	8855
265	[87]		9245	5,2	8434	-3,9	8552	-2,5	8676	-1	8727	-0,4	8766
266	[87]		9037	3,6	8102	-7,5	7614	-14,4	7859	-10,8	8153	-6,8	8710
267	[88]		7990	2,8	8200	5,3	7186	-8	7644	-1,6	7607	-2,1	7763
268	[88]		8517	2,4	8709	4,6	7635	-8,9	8169	-1,8	8258	-0,7	8312
269	[89]		8003	6	7265	-3,5	7374	-2	7715	2,5	7589	0,9	7520
271	[90]		8311	-6,4	8228	-7,5	7952	-11,2	8235	-7,4	8182	-8,1	8845
272	[91]		8390	-8,5	9171	0,8	8660	-5,1	9027	-0,8	8812	-3,3	9100
274	[91]		8671	-2,6	8897	0	8145	-9,2	8512	-4,5	8556	-4	8898
275	[91]		8430	-9,9	9244	-0,2	8908	-4	9142	-1,4	8931	-3,8	9267
276	[91]		7702	-19,6	8989	-2,5	8412	-9,5	8765	-5,1	8467	-8,8	9214
277	[91]		7072	-27	8564	-4,8	7848	-14,4	8260	-8,7	7936	-13,1	8978
278	[91]		6517	-37,5	8660	-3,5	8032	-11,6	8420	-6,4	7907	-13,4	8963
279	[91]		6805	-31,9	9033	0,6	8350	-7,5	8654	-3,7	8210	-9,4	8978
280	[91]		8067	-10,6	8375	-6,6	8002	-11,5	8330	-7,1	8194	-8,9	8925
281	[91]		7606	-18	8479	-5,9	8122	-10,5	8461	-6,1	8167	-9,9	8976
282	[91]		8175	-9,7	8479	-5,7	7934	-13	8309	-7,9	8224	-9	8966

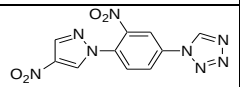
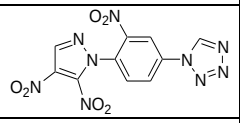
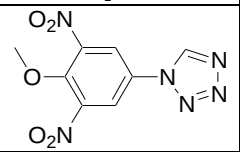
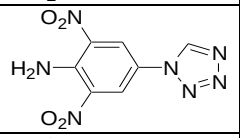
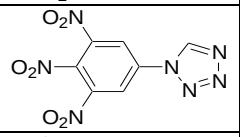
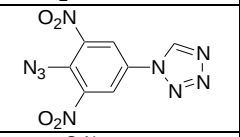
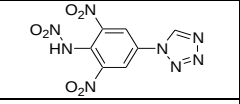
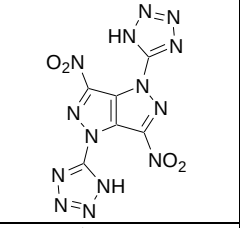
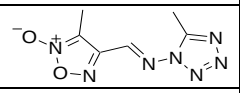
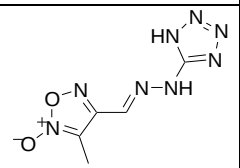
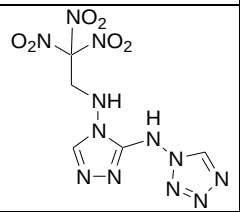
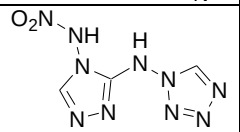
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
284	[92]		7421	-0,1	6492	-14,5	6833	-8,8	6865	-8,3	6903	-7,7	7432
285	[92]		7322	0,2	6492	-12,5	6754	-8,2	6813	-7,2	6845	-6,7	7305
286	[92]		7290	0,6	6492	-11,6	6706	-8	6777	-6,9	6816	-6,3	7243
287	[92]		7651	5,3	6688	-8,4	7097	-2,1	7075	-2,4	7128	-1,7	7247
288	[92]		7384	1,6	6688	-8,7	6849	-6,1	6900	-5,3	6955	-4,5	7268
289	[92]		7484	0,7	6688	-11,1	6977	-6,5	6995	-6,2	7036	-5,6	7432
290	[92]		7517	1	6688	-11,3	7006	-6,2	7015	-6,1	7056	-5,5	7442
291	[92]		7465	4,3	6496	-9,9	6626	-7,8	6771	-5,5	6840	-4,4	7142
292	[92]		7860	0,6	7338	-6,5	7104	-10	7239	-7,9	7385	-5,8	7812
293	[92]		7522	-5	7279	-8,5	7051	-12	7192	-9,8	7261	-8,8	7899
294	[92]		8026	-2,2	8121	-1	7816	-4,9	7917	-3,6	7970	-2,9	8202
295	[92]		8479	2,1	7988	-3,9	7989	-3,9	8022	-3,4	8120	-2,2	8298
296	[92]		7937	2,6	8027	3,7	7395	-4,6	7677	-0,7	7759	0,3	7734
299	[93]		8866	9	10007	19,4	8035	-0,4	8481	4,9	8847	8,8	8066
301	[94]		8304	2	8123	-0,1	7808	-4,2	7864	-3,4	8025	-1,4	8135
302	[94]		7801	1,3	7719	0,2	7392	-4,2	7441	-3,5	7588	-1,5	7700

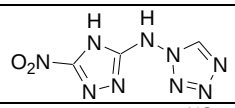
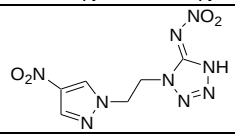
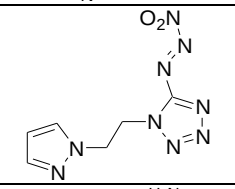
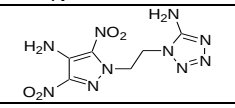
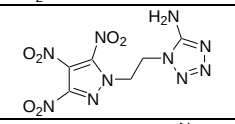
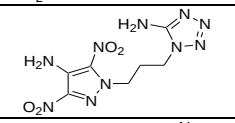
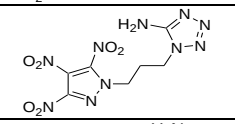
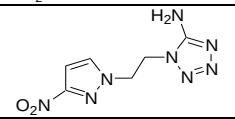
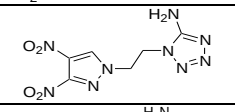
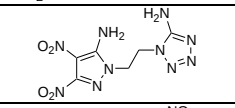
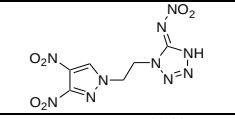
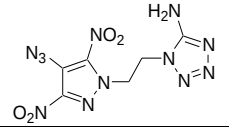
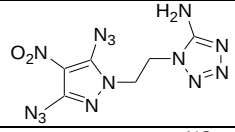
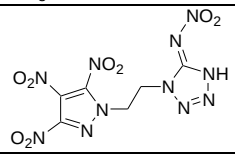
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
303	[94]		8170	4,1	8059	2,7	7309	-7,2	7567	-3,6	7776	-0,8	7838
304	[94]		7624	3,8	7439	1,4	6832	-7,4	7078	-3,6	7243	-1,3	7336
314	[95]		10336	2,1	8875	-14	9274	-9,1	9424	-7,3	9477	-6,7	10114
315	[95]		8939	1,2	9602	8	8371	-5,5	8797	-0,4	8927	1,1	8830
316	[95]		8676	5,6	9005	9,1	8091	-1,2	8200	0,1	8493	3,6	8190
318	[95]		9158	11,9	8130	0,7	7652	-5,5	7799	-3,5	8185	1,4	8070
319	[95]		8385	2,3	8337	1,8	7731	-5,9	7904	-3,6	8089	-1,2	8190
320	[95]		10623	18,7	8785	1,7	8283	-4,3	8435	-2,4	9032	4,3	8640
321	[95]		9010	0,9	9202	3	8559	-4,3	8773	-1,8	8886	-0,5	8928
322	[95]		9048	0,9	9202	2,6	8592	-4,3	8801	-1,9	8911	-0,6	8964
323	[95]		9212	4,1	9200	4	8624	-2,4	8763	-0,8	8950	1,3	8834
324	[95]		9165	2	9202	2,4	8600	-4,4	8799	-2	8942	-0,4	8979
325	[95]		9087	1,7	9202	2,9	8554	-4,4	8762	-1,9	8901	-0,3	8932
326	[95]		8687	-0,2	9365	7,1	8175	-6,4	8663	-0,5	8722	0,2	8702
327	[96]		9755	3,6	9863	4,7	8674	-8,4	9153	-2,7	9361	-0,4	9400

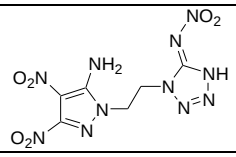
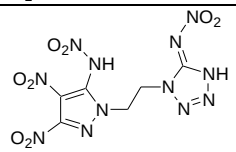
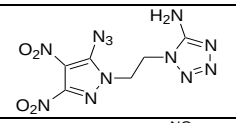
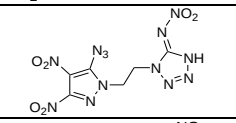
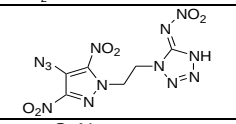
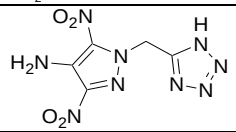
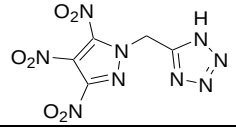
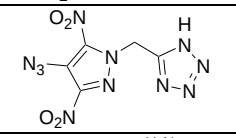
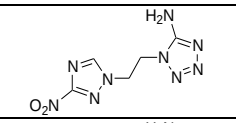
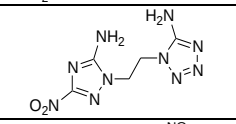
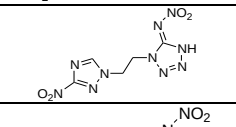
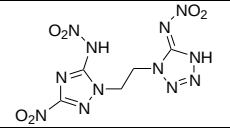
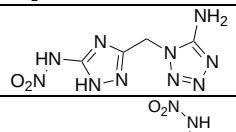
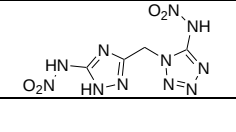
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
328	[96]		9743	1,1	9327	-3,3	8797	-9,5	9050	-6,4	9229	-4,4	9631
329	[96]		9564	3,2	9561	3,2	8499	-8,9	9014	-2,7	9160	-1	9256
330	[96]		8803	0,1	8664	-1,5	8415	-4,5	8488	-3,6	8592	-2,3	8792
331	[96]		8232	-0,3	8240	-0,2	7908	-4,4	7964	-3,7	8086	-2,1	8257
332	[96]		7885	-2,1	7847	-2,6	7671	-5	7680	-4,8	7771	-3,6	8051
333	[96]		8460	1,2	8758	4,6	8035	-4	8201	-1,9	8364	0,1	8356
334	[96]		9306	0,9	9127	-1,1	8900	-3,7	8997	-2,5	9082	-1,6	9226
335	[96]		9194	3,9	8753	-1	8838	0	9037	2,2	8956	1,3	8838
336	[96]		7695	8,6	6535	-7,6	6493	-8,3	6593	-6,7	6829	-3	7032
338	[96]		9757	14,2	9443	11,3	8093	-3,5	8540	1,9	8958	6,5	8376
340	[96]		8340	1,1	8781	6	8230	-0,2	8403	1,8	8438	2,2	8250
341	[96]		9116	4,8	8788	1,3	8561	-1,3	8593	-0,9	8764	1	8674
342	[96]		9859	4	9834	3,8	9443	-0,2	9663	2,1	9700	2,5	9460

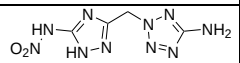
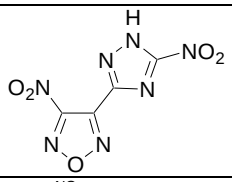
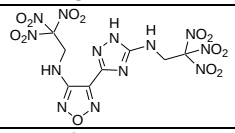
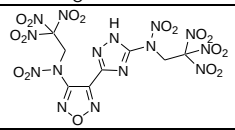
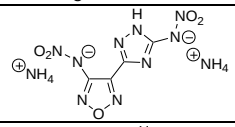
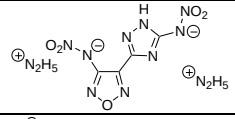
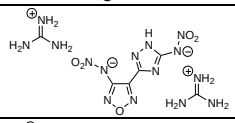
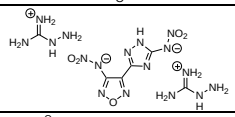
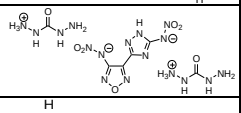
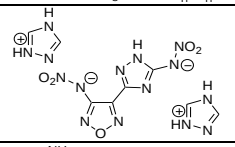
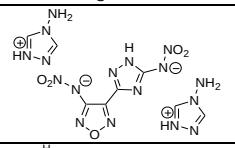
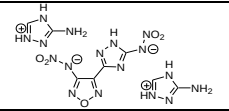
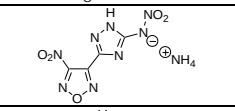
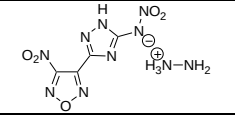
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
343	[96]		8413	-5,4	8957	1	8413	-5,4	8626	-2,8	8602	-3	8864
344	[96]		9329	-1,9	9933	4,3	9363	-1,5	9594	0,9	9555	0,5	9507
345	[96]		9533	10,7	9137	6,8	8855	3,8	9035	5,8	9140	6,8	8515
346	[96]		8272	-6,2	9345	6	8368	-5	8721	-0,8	8676	-1,3	8787
350	[96]		8527	-8,9	8366	-11	8261	-12,5	8285	-12,1	8360	-11,1	9290
351	[96]		8392	-2,7	9344	7,7	8182	-5,4	8678	0,7	8649	0,3	8621
352	[96]		9014	-3,2	10102	7,9	9086	-2,4	9517	2,3	9430	1,4	9301
353	[96]		8865	-5,9	9622	2,5	8905	-5,4	9282	-1,1	9168	-2,4	9384
357	[96]		8921	-3,5	10187	9,3	8591	-7,5	9255	0,2	9238	0	9236
358	[96]		9494	-0,1	9816	3,2	6522	-45,7	7846	-21,1	8420	-12,8	9500
360	[96]		8574	-2,6	9344	5,8	8292	-6,1	8775	-0,3	8746	-0,6	8800
361	[96]		9118	1,3	9062	0,7	8123	-10,8	8379	-7,4	8670	-3,8	8998
362	[96]		9029	0,7	9389	4,5	8594	-4,4	8850	-1,4	8966	0	8970
363	[96]		8185	5,2	8200	5,3	7349	-5,6	7773	0,1	7877	1,4	7763

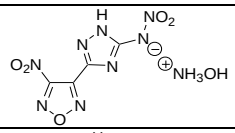
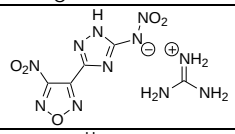
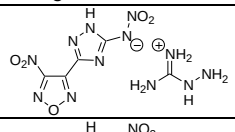
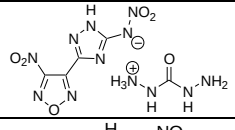
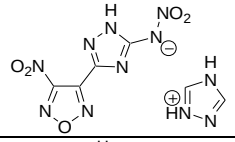
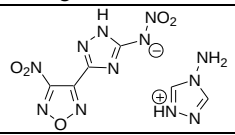
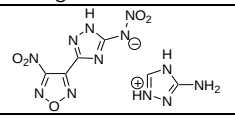
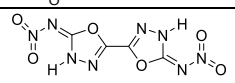
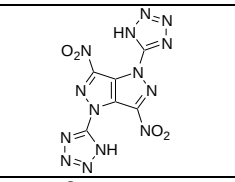
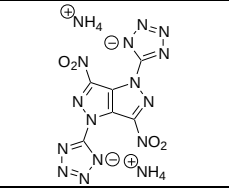
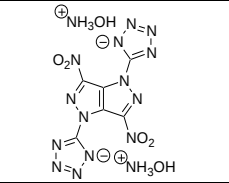
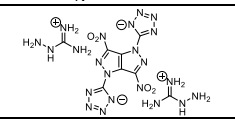
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
364	[96]		8521	2,5	8709	4,6	7685	-8,2	8207	-1,3	8280	-0,4	8312
365	[96]		8669	1,1	8484	-1	7876	-8,8	8104	-5,8	8283	-3,5	8572
366	[96]		8621	-2,1	8328	-5,6	8527	-3,2	8430	-4,4	8476	-3,8	8798
367	[96]		6733	-26,1	8532	0,5	8130	-4,5	8247	-3	7910	-7,4	8492
368	[96]		7098	-24,9	8665	-2,3	8610	-2,9	8622	-2,8	8249	-7,4	8862
370	[98]		8644	-2,4	8732	-1,4	8858	0	8880	0,3	8778	-0,9	8855
371	[98]		8172	-5,6	8237	-4,8	7815	-10,4	7988	-8	8053	-7,2	8630
372	[98]		7614	-14,6	8361	-4,4	8584	-1,6	8651	-0,9	8302	-5,1	8725
373	[98]		7946	-11,7	8518	-4,2	8732	-1,7	8781	-1,1	8494	-4,5	8877
374	[98]		7511	-17,4	8622	-2,3	7910	-11,5	8153	-8,2	8049	-9,6	8821
375	[98]		7929	-15,3	9166	0,3	8990	-1,7	9162	0,2	8812	-3,7	9142
376	[98]		8134	-0,1	7855	-3,6	8042	-1,2	8047	-1,2	8020	-1,5	8140
379	[99]		9124	2,9	9554	7,3	8641	-2,5	8898	0,4	9054	2,1	8860
380	[99]		9005	2,5	9554	8,1	8566	-2,5	8834	0,6	8990	2,3	8780
381	[99]		7724	-6,9	8209	-0,6	6410	-28,8	7360	-12,2	7426	-11,2	8257

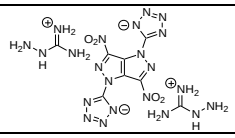
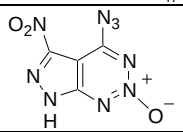
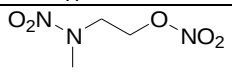
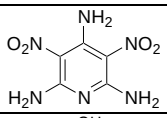
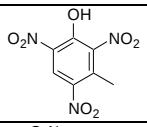
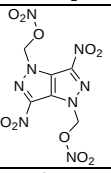
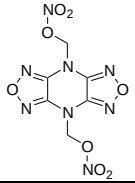
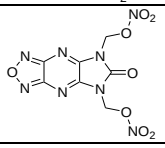
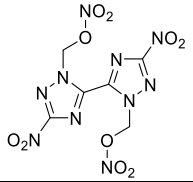
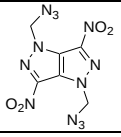
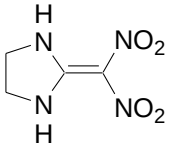
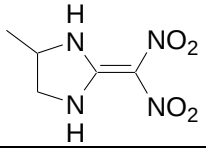
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
383	[99]		7465	4,3	6496	-9,9	6626	-7,8	6771	-5,5	6840	-4,4	7142
384	[99]		7860	0,6	7338	-6,5	7104	-10	7239	-7,9	7385	-5,8	7812
385	[99]		7651	4,9	6859	-6,1	7097	-2,5	7075	-2,8	7170	-1,5	7274
386	[99]		7522	-5	7279	-8,5	7051	-12	7192	-9,8	7261	-8,8	7899
387	[99]		8479	2,1	7988	-3,9	7989	-3,9	8022	-3,4	8120	-2,2	8298
388	[99]		7937	2,6	8027	3,7	7395	-4,6	7677	-0,7	7759	0,3	7734
389	[99]		8026	-2,3	8121	-1,1	7816	-5	7917	-3,7	7970	-3	8208
392	[99]		9004	3,1	9365	6,9	8061	-8,2	8561	-1,9	8748	0,3	8721
394	[99]		7194	4,1	6118	-12,8	6644	-3,9	6903	0	6715	-2,8	6900
395	[99]		7264	-10	7169	-11,5	7407	-7,9	7685	-4	7381	-8,3	7991
398	[99]		8409	-7,1	9346	3,7	8791	-2,4	9032	0,3	8894	-1,2	9004
399	[99]		8310	-10	9240	1,1	8591	-6,4	9065	-0,8	8802	-3,9	9141

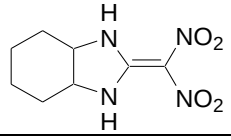
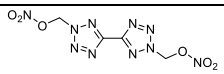
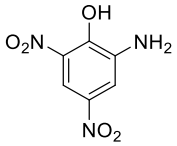
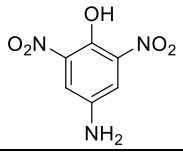
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
400	[99]		8117	-9,5	9288	4,3	8541	-4	9016	1,5	8740	-1,7	8885
402	[99]		7665	-2,1	7941	1,5	7337	-6,6	7571	-3,3	7628	-2,6	7824
403	[99]		7192	2,1	6873	-2,4	6435	-9,4	6895	-2,1	6849	-2,8	7041
404	[99]		7539	-4,6	8057	2,1	7277	-8,4	7569	-4,2	7610	-3,7	7889
405	[99]		8138	-0,4	8689	6	7817	-4,5	8033	-1,7	8169	0	8172
406	[99]		7278	-6,7	7503	-3,5	7069	-9,9	7301	-6,4	7288	-6,6	7768
407	[99]		7797	-2,1	8205	3	7565	-5,2	7725	-3	7823	-1,7	7959
408	[99]		7013	-0,8	6285	-12,5	6330	-11,7	6730	-5,1	6590	-7,3	7072
409	[99]		7458	-0,8	7941	5,4	7067	-6,4	7363	-2,1	7457	-0,8	7516
410	[99]		7573	-4,1	8057	2,2	7300	-8	7588	-3,9	7630	-3,3	7883
411	[99]		8066	-0,6	8689	6,6	7814	-3,8	8031	-1	8150	0,4	8114
412	[99]		8021	-2	8660	5,5	7692	-6,4	8051	-1,7	8106	-1	8185
413	[99]		7695	-2,9	8334	5	7286	-8,7	7842	-1	7789	-1,6	7917
414	[99]		8253	-3,7	9155	6,6	8337	-2,6	8529	-0,3	8568	0,2	8555

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
415	[99]		7738	-8,4	8778	4,4	7990	-5	8201	-2,3	8177	-2,6	8388
416	[99]		8287	-6,2	9224	4,6	8534	-3,2	8712	-1,1	8689	-1,3	8804
417	[99]		8057	-1,6	8660	5,5	7657	-6,9	8024	-2	8100	-1,1	8186
418	[99]		8309	-5,3	9209	5	8336	-4,9	8634	-1,3	8622	-1,5	8748
419	[99]		8204	-5,5	9209	6	8270	-4,7	8579	-0,9	8566	-1,1	8659
420	[99]		8234	-3,8	8582	0,4	7944	-7,6	8188	-4,4	8237	-3,8	8548
421	[99]		8843	0	9144	3,3	8488	-4,2	8690	-1,8	8791	-0,6	8845
422	[99]		8573	-1,6	9200	5,4	8194	-6,3	8579	-1,5	8636	-0,8	8707
423	[99]		7410	0,2	7265	-1,8	6690	-10,5	7181	-3	7136	-3,6	7395
424	[99]		7492	-4,2	7349	-6,2	6879	-13,5	7390	-5,6	7278	-7,3	7807
425	[99]		7590	-6,9	8668	6,4	7534	-7,7	7887	-2,9	7920	-2,4	8113
426	[99]		7758	-12	9346	7	7947	-9,3	8299	-4,7	8338	-4,2	8690
427	[99]		7611	-7,6	8236	0,6	7406	-10,5	7929	-3,3	7796	-5	8187
428	[99]		8222	-6,4	9388	6,8	7847	-11,5	8356	-4,7	8453	-3,5	8750

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
429	[99]		7644	-7,4	8236	0,3	7411	-10,8	7937	-3,5	7807	-5,2	8213
433	[101]		8837	-3,6	9321	1,8	8668	-5,6	8907	-2,8	8933	-2,5	9152
434	[101]		8849	-2,7	9135	0,5	8962	-1,4	8980	-1,2	8982	-1,2	9087
435	[101]		10100	7,4	9560	2,1	9383	0,3	9455	1,1	9624	2,8	9355
436	[101]		8861	-0,4	9163	2,9	8274	-7,5	8549	-4,1	8712	-2,1	8897
437	[101]		7947	-13,8	9281	2,5	8716	-3,8	8949	-1,1	8723	-3,7	9045
438	[101]		6635	-19,7	8748	9,2	7260	-9,4	7740	-2,6	7596	-4,6	7942
439			6301	-34,2	8872	4,7	7723	-9,5	8109	-4,3	7751	-9,1	8455
440	[101]		6517	-25,2	9198	11,3	8000	-2	8300	1,7	8004	-1,9	8159
441			7905	-5,5	8466	1,5	7763	-7,4	8055	-3,6	8047	-3,7	8341
442	[101]		7945	-8,8	8604	-0,4	7934	-8,9	8233	-5	8179	-5,7	8642
443	[101]		7405	-13,1	8604	2,7	7640	-9,6	8006	-4,6	7914	-5,8	8373
444	[101]		8748	0,4	8998	3,1	8371	-4,1	8610	-1,2	8682	-0,4	8716
445	[101]		8384	-8,1	9297	2,5	8677	-4,4	8892	-1,9	8812	-2,8	9060

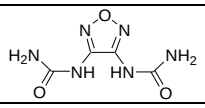
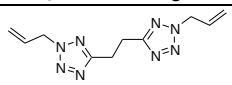
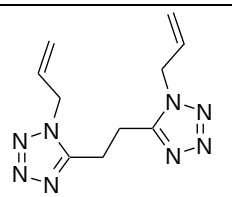
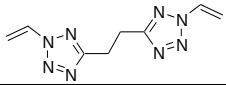
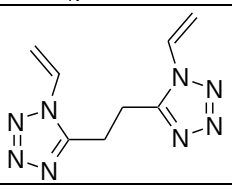
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
446	[101]		8695	-3	9383	4,6	8747	-2,4	8913	-0,5	8934	-0,2	8954
447	[101]		7419	-7,7	8964	10,9	7576	-5,5	7951	-0,5	7978	-0,2	7990
448	[101]		7202	-13,7	9033	9,4	7771	-5,4	8120	-0,8	8032	-1,9	8187
449	[101]		7319	-12,8	9196	10,2	7932	-4,1	8238	-0,2	8171	-1	8256
450	[101]		8008	-2,4	8778	6,6	7773	-5,5	8084	-1,4	8161	-0,4	8197
451	[101]		8157	-3,3	8853	4,8	7962	-5,8	8261	-2	8308	-1,4	8424
452	[101]		7795	-4,6	8853	7,9	7697	-5,9	8048	-1,3	8098	-0,7	8151
453	[102]		8765	-7,9	8566	-10,4	8790	-7,6	9006	-5	8782	-7,7	9457
454	[103]		9004	3,1	9365	6,9	8061	-8,2	8561	-1,9	8748	0,3	8721
455	[103]		9167	8,3	9072	7,4	7682	-9,4	8171	-2,9	8523	1,4	8404
456	[103]		8545	3,6	9369	12,1	7853	-4,9	8262	0,3	8507	3,2	8237
457	[103]		7316	-24,1	8793	-3,3	7746	-17,2	8223	-10,4	8020	-13,2	9082

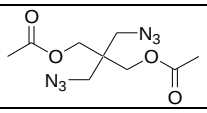
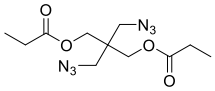
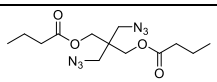
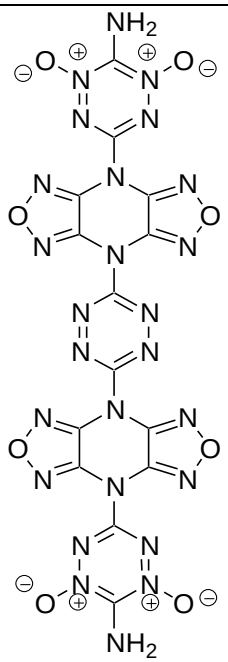
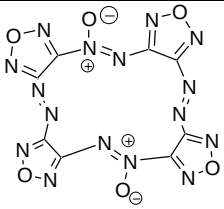
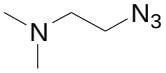
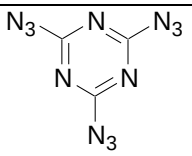
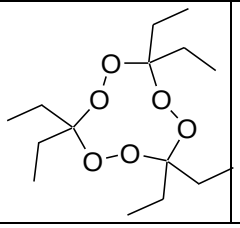
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
458	[103]		6981	-20,3	8793	4,5	7344	-14,3	7893	-6,4	7753	-8,3	8396
459	[104]		8738	-4,3	9441	3,5	8378	-8,7	8823	-3,3	8845	-3	9111
460	[26]		7414	-8,6	7345	-9,6	7676	-4,9	7536	-6,8	7493	-7,4	8050
461	[38]		7350	-5,4	7663	-1,1	7393	-4,8	7488	-3,5	7474	-3,7	7749
462	[38]		7242	6,6	6987	3,2	7558	10,5	7385	8,4	7293	7,3	6763
465	[105]		9116	4,8	8788	1,3	8561	-1,3	8593	-0,9	8764	1	8674
466	[105]		8980	3,5	8546	-1,4	8449	-2,6	8493	-2,1	8617	-0,6	8669
467	[105]		8979	10,3	7994	-0,8	7746	-4	7860	-2,5	8145	1,1	8057
468	[105]		9281	6,9	9065	4,7	8460	-2,1	8604	-0,4	8852	2,4	8639
469	[105]		8324	0,4	8868	6,5	7816	-6,1	8209	-1	8304	0,1	8292
471	[47]		7278	-15,3	7097	-18,3	7566	-10,9	7483	-12,2	7356	-14,1	8394
472	[47]		6867	-12,4	6292	-22,7	7225	-6,9	7087	-8,9	6868	-12,4	7720

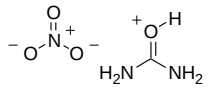
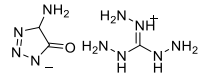
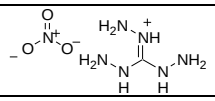
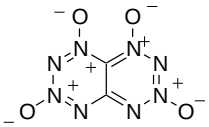
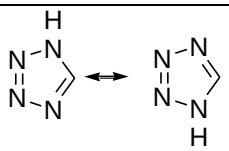
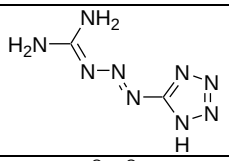
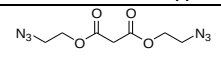
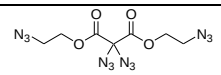
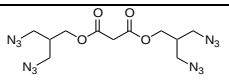
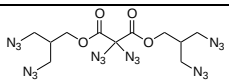
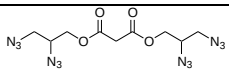
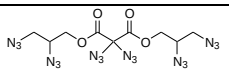
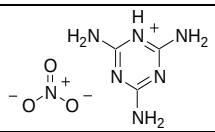
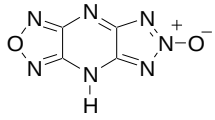
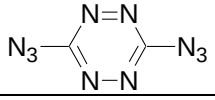
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
473	[47]		6097	-18,9	4706	-54,1	6387	-13,5	6239	-16,2	5857	-23,8	7251
479	[107]		8693	3,6	9054	7,5	8152	-2,8	8496	1,4	8599	2,6	8377
480	[108]		7209	9,1	6451	-1,6	6726	2,6	6635	1,2	6755	3	6553
481	[109]		7488	0,4	6451	-15,6	7465	0,1	7179	-3,9	7146	-4,4	7458

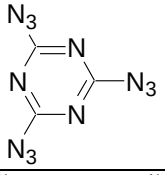
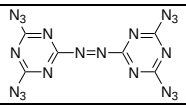
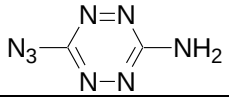
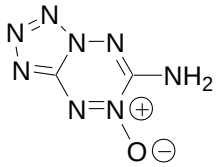
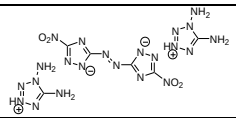
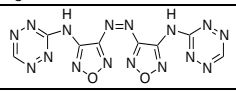
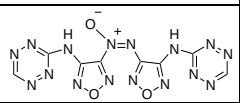
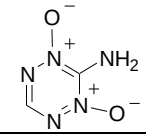
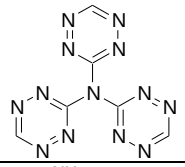
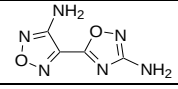
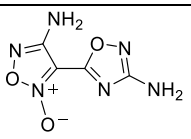
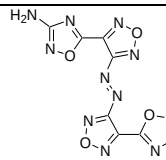
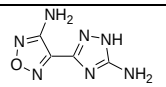
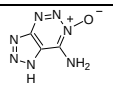
2.2.10 The detonation velocities of molecules not containing nitro groups

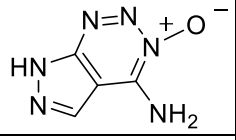
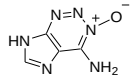
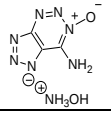
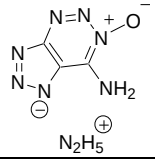
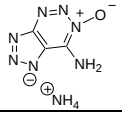
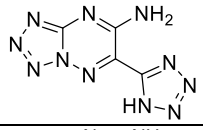
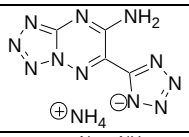
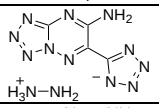
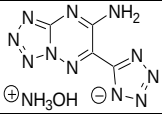
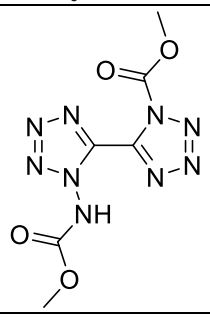
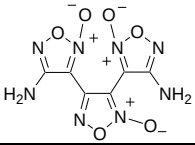
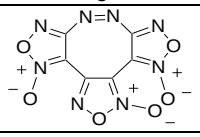
Table 40. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the compounds not containing nitro groups.

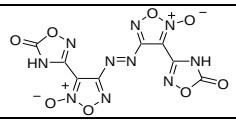
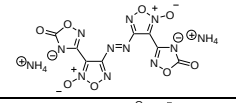
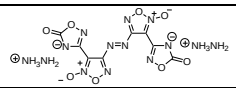
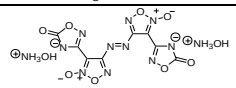
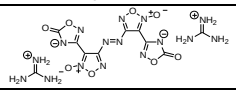
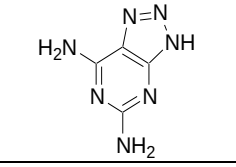
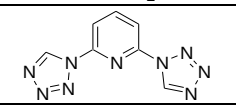
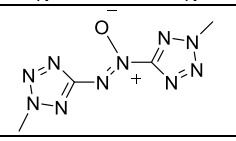
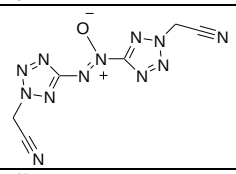
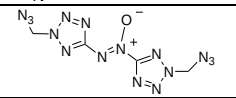
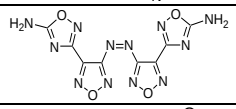
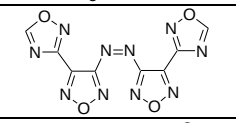
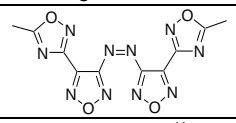
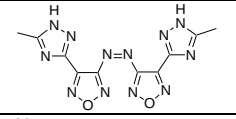
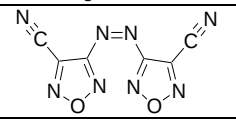
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8	[25]		7547	-9,8	6885	-20,3	7281	-13,8	7590	-9,1	7326	-13,1	8283
12	[30]		5408	-13,7	-	-	4514	-36,2	5243	-17,3	5055	-21,6	6148
13	[30]		5408	-14	-	-	4535	-36	5257	-17,3	5067	-21,7	6167
14	[30]		6310	-12,7	-	-	5284	-34,5	5843	-21,7	5812	-22,3	7109
15	[30]		6310	-13	-	-	5296	-34,7	5852	-21,9	5819	-22,6	7132

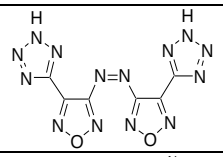
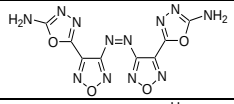
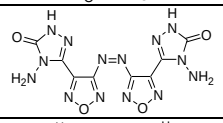
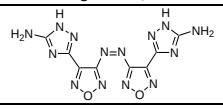
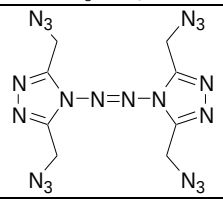
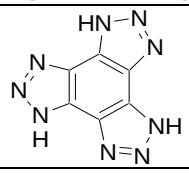
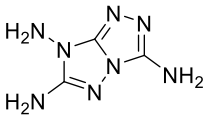
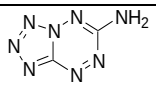
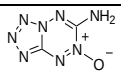
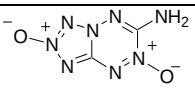
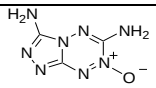
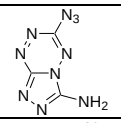
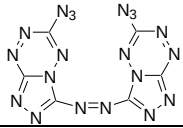
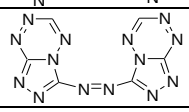
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
26	[35]		5507	1,6	4203	-29	4912	-10,3	5434	0,3	4828	-12,3	5420
27	[35]		5088	-4	3458	-53	4553	-16,2	5124	-3,3	4556	-16,2	5292
28	[35]		4648	-8,6	2842	-77,6	4185	-20,6	4852	-4	4130	-22,2	5048
42	[38]		10236	15	8854	1,7	8184	-6,3	8559	-1,6	8958	2,9	8700
43	[38] [39]		9368	0	9283	-0,9	8217	-14	8696	-7,7	8891	-5,4	9368
46	[24]		4940	-16	-	-	4252	-34,8	5168	-10,9	4787	-19,7	5730
47	[24] [40]		8221	4,3	-	-	7403	-6,3	8458	7	8027	2	7866
49	[42]		4600	-37,4	-	-	4462	-41,7	4599	-37,5	3594	-75,9	6322

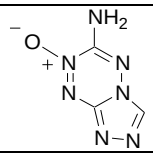
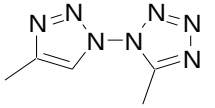
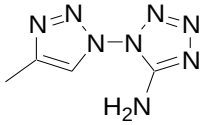
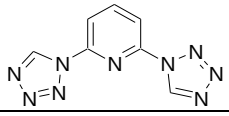
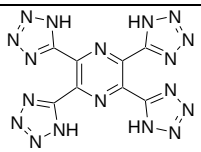
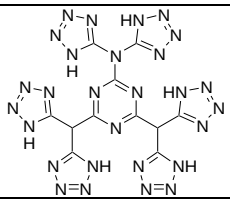
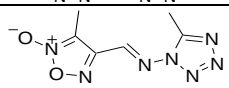
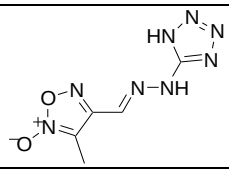
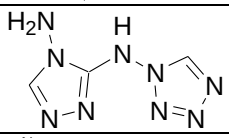
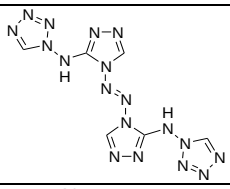
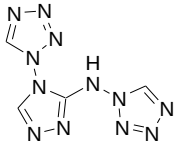
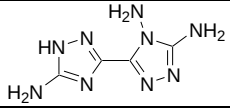
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
50	[43]		7705	-3,3	8428	5,6	7218	-10,3	7777	-2,3	7782	-2,3	7958
52	[45]		5928	-60,1	3623	-162	7715	-23	8102	-17,2	6342	-49,7	9492
53	[38]		6364	-39,7	8827	-0,7	7487	-18,8	8013	-11	7673	-15,9	8893
57	[46]		9865	5,9	10734	13,5	8751	-6,1	9379	1	9682	4,1	9287
58	[38]		7165	-9,3	-	-	6781	-15,5	7710	-1,6	7219	-8,5	7831
63	[38]		7964	-22,2	-	-	7514	-29,5	8526	-14,1	8001	-21,6	9729
84	[51]		6329	2,2	5120	-20,9	5648	-9,6	6039	-2,5	5784	-7,1	6192
85	[51]		6999	0,4	7209	3,3	6660	-4,7	7135	2,3	7001	0,4	6974
86	[51]		5977	-10	5598	-17,5	5880	-11,8	6278	-4,7	5933	-10,8	6576
87	[51]		6681	-7	6978	-2,4	6695	-6,8	7122	-0,4	6869	-4	7147
88	[51]		6052	-3,3	6340	1,4	5809	-7,6	6350	1,5	6138	-1,9	6252
89	[51]		7004	-1,2	7669	7,6	6816	-4	7346	3,5	7209	1,7	7087
134	[62]		6916	-7,8	8386	11,1	6763	-10,2	7406	-0,7	7368	-1,2	7455
137	[63]		8467	-0,8	8748	2,5	7913	-7,8	8314	-2,6	8360	-2,1	8532
145	[40]		7887	-5,3	-	-	8023	-3,5	8987	7,6	8299	-0,1	8306

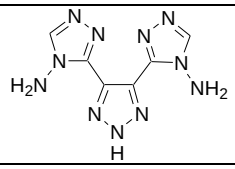
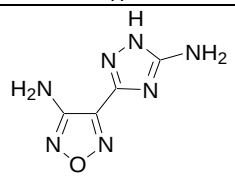
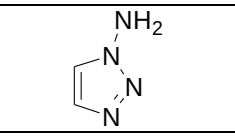
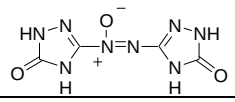
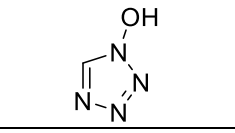
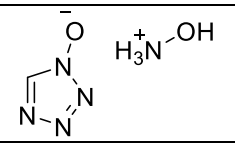
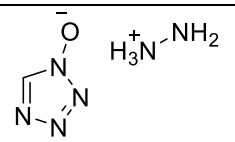
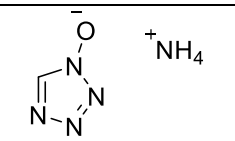
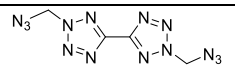
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
146	[40]		8257	-0,6	-	-	7699	-7,9	8680	4,3	8212	-1,2	8308
147	[40]		8282	-0,3	-	-	7691	-8	8582	3,2	8185	-1,5	8306
148	[40]		7728	-9,3	-	-	7664	-10,2	8502	0,6	7965	-6,1	8449
149	[40]		8885	-5	9359	0,4	8550	-9,1	9206	-1,3	9000	-3,6	9326
161	[66]		8381	-3,8	9565	9	7826	-11,2	8494	-2,4	8566	-1,6	8702
162	[67]		8078	0	8373	3,6	7457	-8,3	7996	-1	7976	-1,2	8075
163	[67]		8471	0,8	8644	2,8	7752	-8,4	8223	-2,2	8272	-1,6	8401
164	[67]		8050	-7,3	8799	1,8	8145	-6,1	8466	-2,1	8365	-3,3	8640
165	[67]		8433	1,3	-	-	7415	-12,2	8053	-3,3	7967	-4,5	8322
191	[71]		7542	1,1	7458	0	6820	-9,4	7227	-3,2	7262	-2,7	7459
192	[71]		8004	-2,4	8085	-1,3	7576	-8,1	7787	-5,2	7863	-4,2	8193
193	[71]		7976	5,4	8192	7,9	6964	-8,4	7405	-1,9	7634	1,1	7547
194	[71]		7362	-5,9	5873	-32,8	6698	-16,4	7229	-7,9	6790	-14,8	7798
225	[79]		8151	-7,9	7641	-15,1	7868	-11,7	8330	-5,5	7998	-9,9	8792

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
226	[79]		7744	-6,8	5901	-40,2	7155	-15,6	7467	-10,8	7067	-17	8271
227	[79]		7650	-4,7	5901	-35,7	6943	-15,3	7309	-9,6	6951	-15,2	8008
228	[79]		8141	-5,7	8155	-5,5	7686	-12	8136	-5,8	8030	-7,2	8607
229	[79]		7726	-21,5	6237	-50,5	7594	-23,6	8128	-15,5	7421	-26,5	9385
230	[79]		8182	-6,9	6295	-38,9	7622	-14,7	8093	-8	7548	-15,8	8744
232	[80]		8415	0,6	-	-	7446	-12,4	8195	-2,1	8019	-4,3	8367
236	[80]		8448	1,6	-	-	7117	-16,8	7909	-5,1	7825	-6,2	8313
237	[80]		8055	-7,7	-	-	7432	-16,8	8161	-6,3	7883	-10,1	8679
238	[80]		8392	-2,7	7414	-16,2	7576	-13,8	8242	-4,6	6221	-38,5	8618
241	[82]		7630	3	7063	-4,8	7122	-3,9	7409	0,1	7306	-1,3	7403
242	[83]		8432	-0,6	8485	0,1	8145	-4,1	8248	-2,8	8328	-1,8	8480
243	[83]		9412	-0,1	8830	-6,6	8716	-8	8936	-5,4	8974	-4,9	9417

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
245	[84]		9207	3,4	7922	-12,2	8368	-6,3	8485	-4,8	8496	-4,6	8891
246	[84]		8798	6,4	7946	-3,6	7647	-7,7	7647	-7,7	8058	-2,2	8234
247	[84]		8151	-3,7	8700	2,8	8099	-4,4	8255	-2,4	8301	-1,8	8453
248	[84]		8787	3,9	8206	-2,9	8234	-2,6	8326	-1,4	8388	-0,7	8445
249	[84]		7196	-13,3	7892	-3,3	6871	-18,6	7293	-11,8	7313	-11,4	8150
270	[90]		7121	-4,3	-	-	6163	-20,5	6875	-8	6720	-10,5	7426
283	[92]		7504	5,1	-	-	6188	-15,1	6707	-6,2	6800	-4,7	7120
297	[93]		7743	3,6	6736	-10,8	6729	-10,9	7423	-0,6	7158	-4,3	7465
298	[93]		7566	4	7446	2,5	6635	-9,4	7318	0,8	7241	-0,3	7262
300	[93]		8162	11,4	9067	20,3	6631	-9	7745	6,7	7901	8,5	7228
305	[95]		8695	2,9	7919	-6,6	7541	-12	7855	-7,5	8002	-5,5	8445
306	[95]		8469	9,3	7700	0,2	7135	-7,7	7496	-2,5	7700	0,2	7685
307	[95]		8326	6,5	6730	-15,6	6971	-11,6	7136	-9	7291	-6,7	7781
308	[95]		7912	-7,2	6358	-33,4	6891	-23,1	7137	-18,8	7074	-19,9	8482
309	[95]		7612	-0,4	8220	7,1	6980	-9,5	7509	-1,7	7580	-0,8	7640

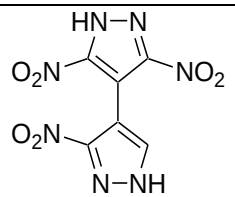
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
310	[95]		8415	-0,7	9053	6,4	7486	-13,2	8118	-4,4	8268	-2,5	8477
311	[95]		8622	3,5	7645	-8,9	7451	-11,7	7785	-6,9	7876	-5,7	8323
312	[95]		7687	-1,1	7951	2,2	7140	-8,9	7590	-2,4	7592	-2,4	7774
313	[95]		7853	-7,7	7693	-9,9	7180	-17,8	7645	-10,6	7593	-11,4	8458
317	[95]		7361	-4,5	-	-	6962	-10,5	7657	-0,4	7327	-5	7690
337	[96]		7943	9,9	-	-	5902	-21,3	6725	-6,5	6857	-4,4	7160
339	[96]		7542	-13,8	-	-	7087	-21,1	7751	-10,7	7460	-15	8580
347	[96]		8086	-4,5	-	-	7664	-10,2	8502	0,6	8084	-4,5	8449
348	[96]		8885	-5	9359	0,4	8551	-9,1	9207	-1,3	9000	-3,6	9326
349	[96]		9219	-4,1	10037	4,4	8979	-6,9	9517	-0,9	9438	-1,7	9600
354	[96]		8221	-9,6	7457	-20,8	7761	-16,1	8298	-8,6	7934	-13,5	9008
355	[96]		8237	-4,2	-	-	7732	-11	8524	-0,7	8164	-5,1	8581
356	[96]		9413	7,7	-	-	8028	-8,2	8889	2,2	8777	1	8690
359	[96]		9587	4	-	-	8049	-14,3	8676	-6	8771	-4,9	9200

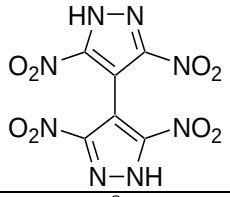
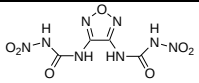
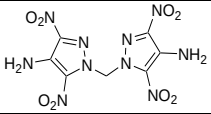
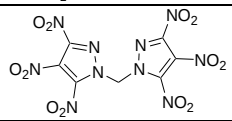
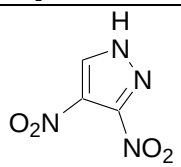
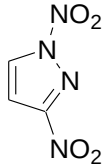
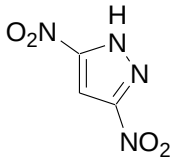
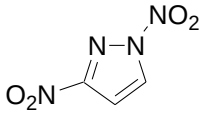
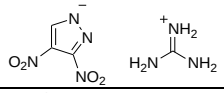
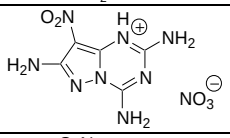
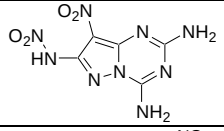
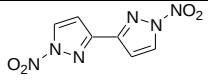
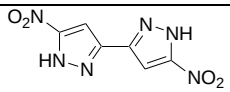
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
369	[97]		8007	-2,6	7641	-7,5	7487	-9,7	8012	-2,5	7787	-5,5	8215
377	[99]		6973	-10,8	-	-	6223	-24,1	6701	-15,3	6632	-16,5	7725
378	[99]		7146	-8,1	-	-	6741	-14,6	7292	-5,9	7060	-9,4	7724
382	[99]		7504	5,1	-	-	6188	-15,1	6707	-6,2	6800	-4,7	7120
390	[99]		8856	2,3	-	-	7518	-15,1	8191	-5,7	8188	-5,7	8655
393	[99]		8865	16,2	-	-	7280	-2,1	8065	7,9	8070	7,9	7430
394	[99]		7194	4,1	6118	-12,8	6644	-3,9	6903	0	6715	-2,8	6900
395	[99]		7264	-10	7169	-11,5	7407	-7,9	7685	-4	7381	-8,3	7991
396	[99]		7591	-15,8	-	-	7632	-15,2	8236	-6,7	7820	-12,4	8789
397	[99]		8378	-2,6	-	-	7669	-12,1	8357	-2,9	8135	-5,7	8599
401	[99]		8409	-15,3	-	-	7848	-23,5	8514	-13,9	8257	-17,4	9695
430	[100]		7006	-11,6	-	-	6392	-22,3	7191	-8,7	6863	-13,9	7818

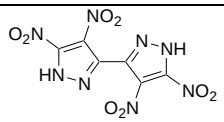
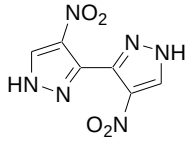
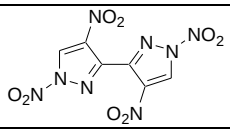
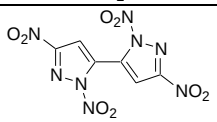
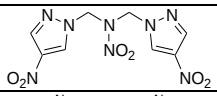
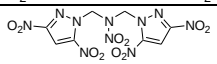
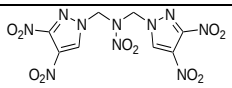
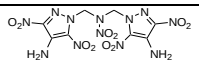
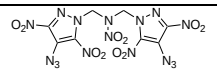
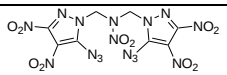
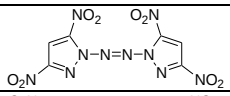
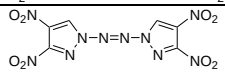
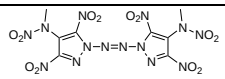
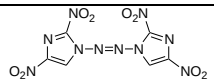
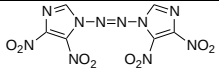
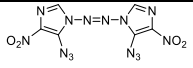
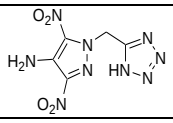
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431	[100]		7266	-7,4	-	-	6508	-19,9	7128	-9,5	6967	-12	7806
432	[101]		6986	2	5873	-16,6	6656	-2,9	7161	4,4	6669	-2,7	6846
463	[24]		6697	-16	-	-	6268	-23,9	6882	-12,9	6616	-17,4	7767
464	[24]		7991	-2,7	7983	-2,8	7357	-11,5	7908	-3,7	7810	-5	8204
474	[106]		7840	-7,2	8682	3,2	7977	-5,4	8516	1,3	8254	-1,8	8405
475	[106]		7869	-18	8814	-5,3	7818	-18,8	8333	-11,4	8208	-13,1	9284
476	[106]		7343	-28,5	6198	-52,3	7838	-20,4	8394	-12,4	7443	-26,8	9437
477	[106]		7646	-4,8	6287	-27,5	7683	-4,3	8207	2,4	7456	-7,5	8013
478	[107]		8073	-1	-	-	7444	-9,6	8238	1	7918	-3	8155

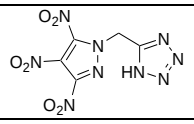
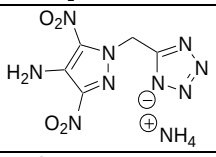
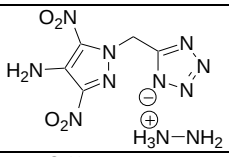
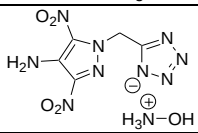
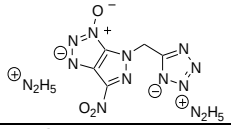
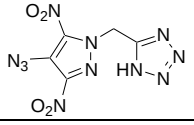
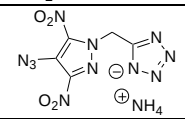
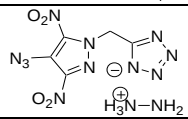
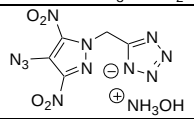
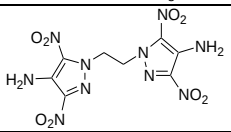
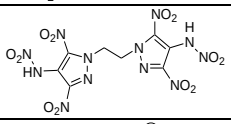
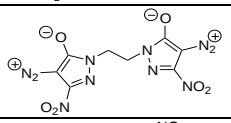
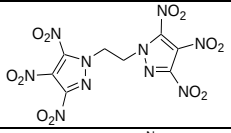
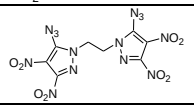
2.2.11 The detonation velocities of diazole

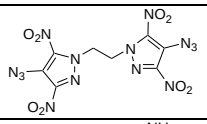
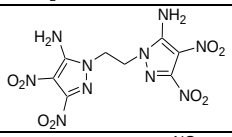
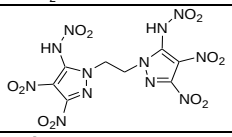
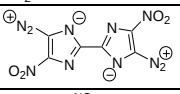
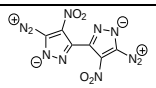
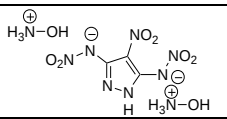
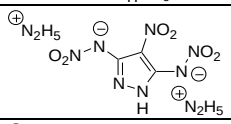
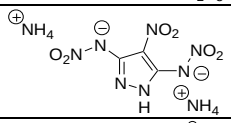
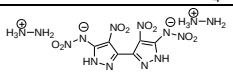
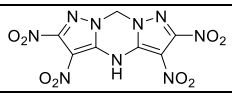
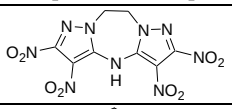
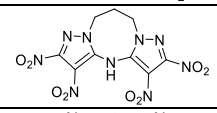
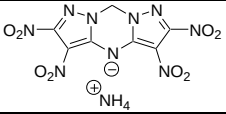
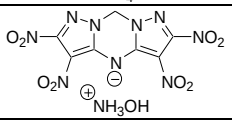
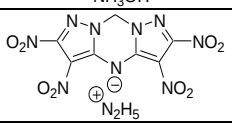
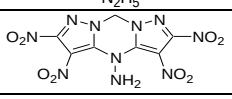
Table 41. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the diazoles.

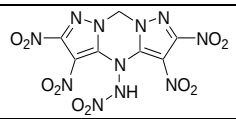
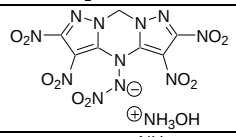
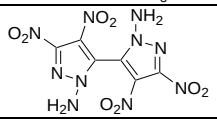
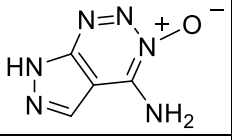
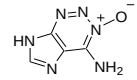
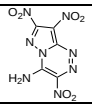
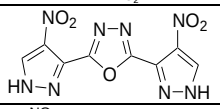
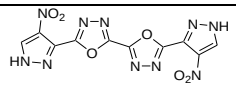
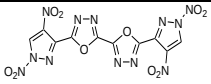
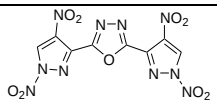
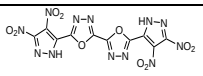
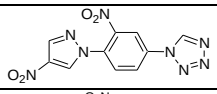
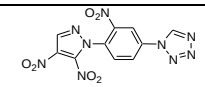
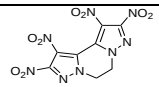
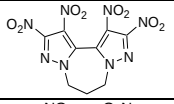
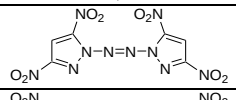
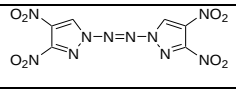
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
6	[27]		8228	-0,3	8365	1,3	8019	-3	7997	-3,2	8123	-1,6	8256

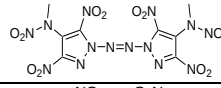
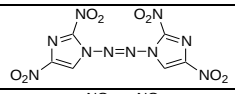
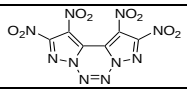
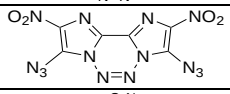
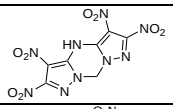
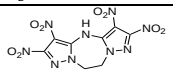
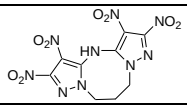
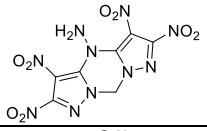
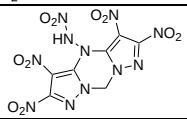
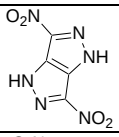
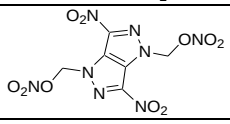
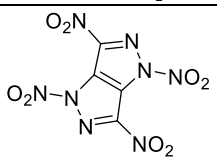
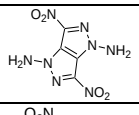
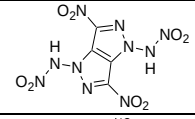
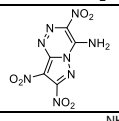
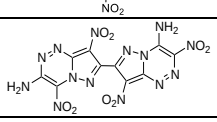
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
7	[27]		8394	-1,5	8908	4,4	8232	-3,5	8379	-1,7	8478	-0,5	8520
16	[25]		7901	-9,9	8908	2,5	8487	-2,3	8671	-0,2	8492	-2,3	8685
17	[31]		8223	-1,3	8642	3,6	8016	-3,9	8132	-2,5	8253	-1	8332
18	[31]		9733	4,4	9201	-1,1	9029	-3	9094	-2,3	9264	-0,4	9304
36	[37]		8082	-4,3	8824	4,5	8257	-2	8336	-1,1	8375	-0,6	8426
37	[37]		8235	-2,7	8824	4,1	8295	-2	8378	-1	8433	-0,3	8459
38	[37]		8048	-2,9	8824	6,2	8113	-2	8215	-0,8	8300	0,3	8279
120	[37]		8235	-2,3	8824	4,5	8295	-1,6	8378	-0,6	8433	0,1	8426
122	[37]		7013	-19,3	8283	-1	7290	-14,8	7560	-10,7	7536	-11,1	8369
135	[62]		7758	-8,2	8634	2,8	7776	-7,9	8011	-4,7	8045	-4,3	8391
136	[62]		8165	-6,7	8582	-1,5	8004	-8,9	8242	-5,7	8248	-5,6	8713
139	[64]		8320	0,2	7503	-10,6	7718	-7,6	7728	-7,4	7817	-6,2	8301
140	[64]		7794	-3	7503	-7	7425	-8,1	7481	-7,3	7551	-6,3	8026

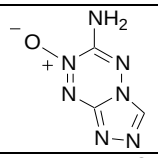
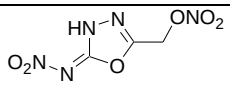
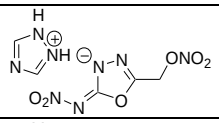
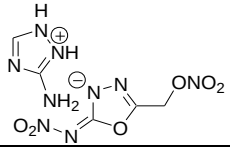
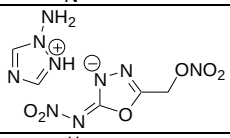
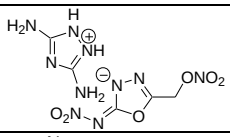
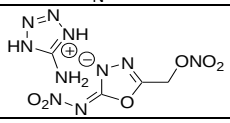
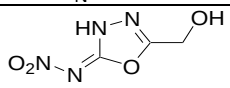
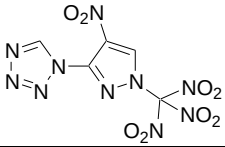
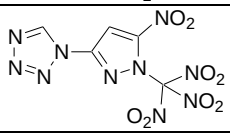
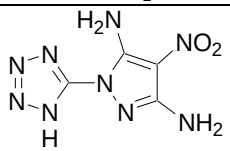
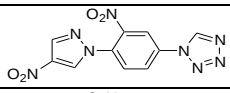
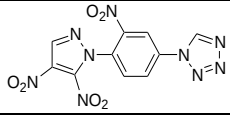
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
141	[64]		8464	-1,1	8908	4	8079	-5,9	8251	-3,7	8426	-1,5	8556
142	[64]		7858	-3,3	7503	-8,2	7469	-8,7	7512	-8,1	7586	-7	8120
143	[64]		9037	1,9	8908	0,4	8523	-4,1	8631	-2,8	8775	-1,1	8869
144	[64]		9057	1,4	8908	-0,2	8578	-4,1	8680	-2,8	8806	-1,4	8926
150	[65]		7814	-0,7	7486	-5,1	7429	-5,9	7445	-5,7	7544	-4,3	7867
151	[65]		8680	4,9	8583	3,8	8234	-0,3	8273	0,2	8442	2,2	8258
152	[65]		8680	4,8	8583	3,7	8242	-0,3	8280	0,2	8446	2,1	8265
153	[65]		8549	-1,1	8753	1,3	8555	-1	8575	-0,7	8608	-0,4	8639
154	[65]		9265	5,9	9339	6,7	8619	-1,1	8880	1,8	9026	3,4	8717
155	[65]		9265	5,8	9339	6,6	8626	-1,1	8886	1,8	9029	3,4	8724
166	[68]4		9010	7,9	9202	9,8	8559	3	8773	5,4	8886	6,6	8298
167	[68]5		9048	0,9	9202	2,6	8592	-4,3	8801	-1,9	8911	-0,6	8964
168	[68]6		9212	4,1	9200	4	8654	-2,1	8790	-0,5	8964	1,5	8834
169	[68]7		9165	2	9202	2,4	8600	-4,4	8799	-2	8942	-0,4	8979
170	[68]8		9087	1,7	9202	2,9	8554	-4,4	8762	-1,9	8901	-0,3	8932
172	[68]		8687	-0,2	9365	7,1	8056	-8	8557	-1,7	8666	-0,4	8702
173	[69]		8234	-3,8	8582	0,4	7944	-7,6	8188	-4,4	8237	-3,8	8548

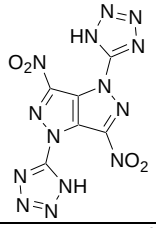
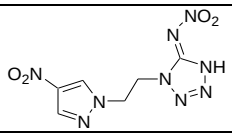
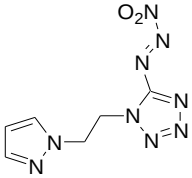
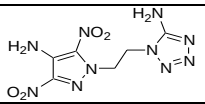
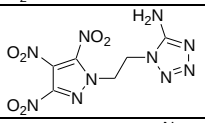
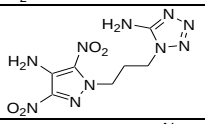
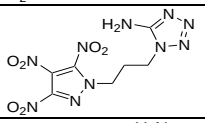
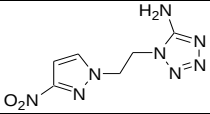
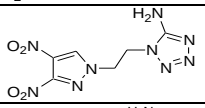
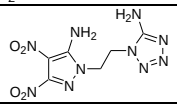
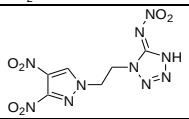
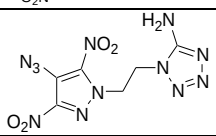
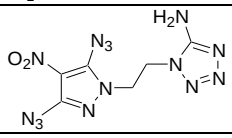
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
174	[69]		8843	0	9144	3,3	8488	-4,2	8690	-1,8	8791	-0,6	8845
175	[69]		7998	-1,9	8433	3,3	7614	-7,1	7900	-3,2	7986	-2,1	8153
176	[69]		7458	-10,8	8521	3	7696	-7,4	7992	-3,4	7917	-4,4	8264
177	[69]		8096	-6,1	8696	1,2	8118	-5,8	8293	-3,6	8301	-3,5	8592
178	[69]		7755	-13,2	8342	-5,2	7914	-10,9	8269	-6,2	8070	-8,8	8778
179	[69]		8573	-1,6	9200	5,4	8194	-6,3	8579	-1,5	8636	-0,8	8707
180	[69]		8223	0,7	9028	9,5	7740	-5,5	8150	-0,2	8285	1,4	8167
181	[69]		8077	-7	9081	4,9	8137	-6,2	8503	-1,6	8450	-2,2	8640
182	[69]		8526	-2,6	9210	5	8354	-4,7	8652	-1,1	8686	-0,7	8747
183	[70]		7903	-3,6	8238	0,6	7815	-4,8	7871	-4	7957	-2,9	8189
184	[70]		8711	-0,5	9000	2,7	8588	-1,9	8650	-1,2	8737	-0,2	8753
185	[70]		8072	3,3	8180	4,6	7352	-6,1	7599	-2,7	7801	0	7803
186	[70]		9139	4,2	8852	1,1	8551	-2,4	8588	-2	8782	0,3	8759
187	[70]		8737	-0,7	8991	2,2	8398	-4,8	8651	-1,7	8694	-1,2	8797

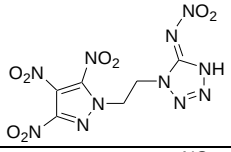
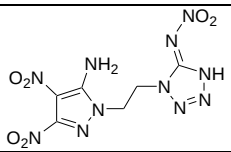
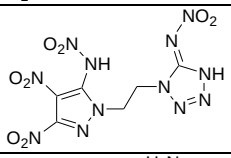
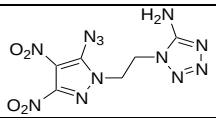
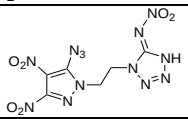
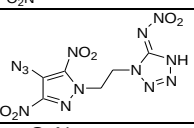
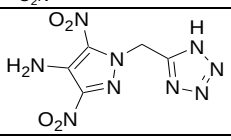
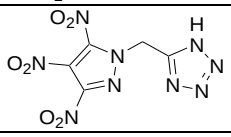
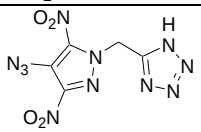
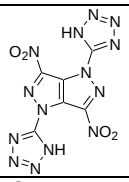
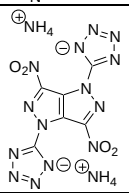
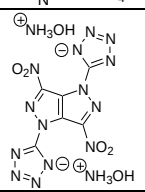
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
188	[70]		8661	1,2	8991	4,8	8170	-4,7	8444	-1,4	8566	0,1	8558
189	[70]		7836	-3,7	8238	1,3	7772	-4,6	7839	-3,7	7921	-2,6	8127
190	[70]		8675	-0,4	9000	3,2	8546	-1,9	8615	-1,1	8709	0	8710
195	[72]		8681	0,3	8964	3,5	7927	-9,2	8344	-3,7	8479	-2,1	8653
196	[72]		8754	-2,2	8964	0,2	8189	-9,2	8580	-4,2	8622	-3,7	8943
204	[74]		8603	-9,2	9719	3,3	9368	-0,3	9370	-0,3	9265	-1,4	9394
205	[74]		7847	-22,1	9570	-0,1	9061	-5,7	9198	-4,2	8919	-7,4	9581
206	[74]		8569	-3,2	9451	6,4	8479	-4,3	8666	-2	8791	-0,6	8842
207	[74]		7709	-18,3	9139	0,2	8654	-5,4	8765	-4	8567	-6,4	9118
210	[75]		8785	-0,1	8664	-1,5	8400	-4,7	8475	-3,7	8562	-2,7	8792
211	[75]		8232	-0,3	8240	-0,2	7908	-4,4	7964	-3,7	8086	-2,1	8257
212	[75]		7885	-2,1	7847	-2,6	7671	-5	7680	-4,8	7771	-3,6	8051
213	[75]		8815	3,4	8642	1,4	8218	-3,7	8296	-2,7	8493	-0,3	8518
214	[75]		8802	-1	8759	-1,5	8549	-4	8572	-3,7	8670	-2,6	8893
215	[75]		8373	-3,8	8732	0,5	8384	-3,6	8460	-2,7	8487	-2,4	8690
216	[75]		8460	1,2	8758	4,6	8035	-4	8201	-1,9	8364	0,1	8356

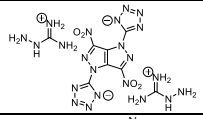
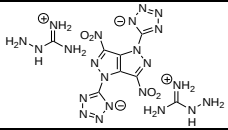
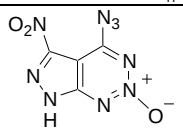
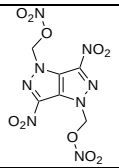
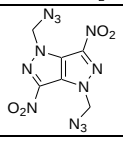
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
217	[75]		9295	0,7	9127	-1,1	8890	-3,8	8989	-2,6	9075	-1,7	9226
218	[75]		9185	1,6	9183	1,6	8894	-1,6	8960	-0,8	9056	0,2	9034
219	[76]		8285	-2,6	9080	6,3	8263	-2,9	8449	-0,7	8519	0,2	8504
226	[79]		7744	-6,8	5901	-40,2	7155	-15,6	7467	-10,8	7067	-17	8271
227	[79]		7650	-4,7	5901	-35,7	6943	-15,3	7309	-9,6	6951	-15,2	8008
261	[86]		8935	2,2	9062	3,6	8479	-3	8657	-0,9	8783	0,5	8737
262	[87]		7987	-1,4	7264	-11,5	7508	-7,9	7594	-6,6	7588	-6,7	8099
263	[87]		8243	2,3	7098	-13,5	7431	-8,4	7553	-6,6	7581	-6,2	8054
264	[87]		9423	6	8102	-9,3	7499	-18,1	7771	-13,9	8199	-8	8855
265	[87]		9245	5,2	8434	-3,9	8552	-2,5	8676	-1	8727	-0,4	8766
266	[87]		9037	3,6	8102	-7,5	7614	-14,4	7859	-10,8	8153	-6,8	8710
291	[92]		7465	4,3	6496	-9,9	6626	-7,8	6771	-5,5	6840	-4,4	7142
292	[92]		7860	0,6	7338	-6,5	7104	-10	7239	-7,9	7385	-5,8	7812
301	[94]		8304	2	8123	-0,1	7808	-4,2	7864	-3,4	8025	-1,4	8135
302	[94]		7801	1,3	7719	0,2	7392	-4,2	7441	-3,5	7588	-1,5	7700
321	[95]		9010	0,9	9202	3	8559	-4,3	8773	-1,8	8886	-0,5	8928
322	[95]		9048	0,9	9202	2,6	8592	-4,3	8801	-1,9	8911	-0,6	8964

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
323	[95]		9212	4,1	9200	4	8624	-2,4	8763	-0,8	8950	1,3	8834
324	[95]		9165	2	9202	2,4	8600	-4,4	8799	-2	8942	-0,4	8979
328	[96]		9743	1,1	9327	-3,3	8797	-9,5	9050	-6,4	9229	-4,4	9631
329	[96]		9564	3,2	9561	3,2	8499	-8,9	9014	-2,7	9160	-1	9256
330	[96]		8803	0,1	8664	-1,5	8415	-4,5	8488	-3,6	8592	-2,3	8792
331	[96]		8232	-0,3	8240	-0,2	7908	-4,4	7964	-3,7	8086	-2,1	8257
332	[96]		7885	-2,1	7847	-2,6	7671	-5	7680	-4,8	7771	-3,6	8051
333	[96]		8460	1,2	8758	4,6	8035	-4	8201	-1,9	8364	0,1	8356
334	[96]		9306	0,9	9127	-1,1	8900	-3,7	8997	-2,5	9082	-1,6	9226
340	[96]		8340	1,1	8781	6	8230	-0,2	8403	1,8	8438	2,2	8250
341	[96]		9116	4,8	8788	1,3	8561	-1,3	8593	-0,9	8764	1	8674
342	[96]		9859	4	9834	3,8	9443	-0,2	9663	2,1	9700	2,5	9460
343	[96]		8413	-5,4	8957	1	8413	-5,4	8626	-2,8	8602	-3	8864
344	[96]		9329	-1,9	9933	4,3	9363	-1,5	9594	0,9	9555	0,5	9507
361	[96]		9118	1,3	9062	0,7	8123	-10,8	8379	-7,4	8670	-3,8	8998
365	[96]		8669	1,1	8484	-1	7876	-8,8	8104	-5,8	8283	-3,5	8572

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
369	[97]		8007	-2,6	7641	-7,5	7487	-9,7	8012	-2,5	7787	-5,5	8215
370	[98]		8644	-2,4	8732	-1,4	8858	0	8880	0,3	8778	-0,9	8855
371	[98]		8172	-5,6	8237	-4,8	7815	-10,4	7988	-8	8053	-7,2	8630
372	[98]		7614	-14,6	8361	-4,4	8584	-1,6	8651	-0,9	8302	-5,1	8725
373	[98]		7946	-11,7	8518	-4,2	8732	-1,7	8781	-1,1	8494	-4,5	8877
374	[98]		7511	-17,4	8622	-2,3	7910	-11,5	8153	-8,2	8049	-9,6	8821
375	[98]		7929	-15,3	9166	0,3	8990	-1,7	9162	0,2	8812	-3,7	9142
376	[98]		8134	-0,1	7855	-3,6	8042	-1,2	8047	-1,2	8020	-1,5	8140
379	[99]		9124	2,9	9554	7,3	8641	-2,5	8898	0,4	9054	2,1	8860
380	[99]		9005	2,5	9554	8,1	8566	-2,5	8834	0,6	8990	2,3	8780
381	[99]		7724	-6,9	8209	-0,6	6410	-28,8	7360	-12,2	7426	-11,2	8257
383	[99]		7465	4,3	6496	-9,9	6626	-7,8	6771	-5,5	6840	-4,4	7142
384	[99]		7860	0,6	7338	-6,5	7104	-10	7239	-7,9	7385	-5,8	7812

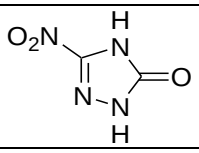
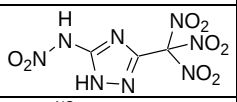
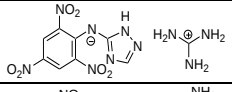
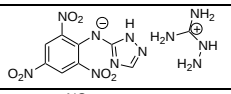
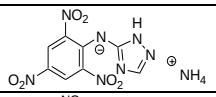
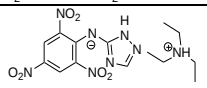
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
392	[99]		9004	3,1	9365	6,9	8061	-8,2	8561	-1,9	8748	0,3	8721
402	[99]		7665	-2,1	7941	1,5	7337	-6,6	7571	-3,3	7628	-2,6	7824
403	[99]		7192	2,1	6873	-2,4	6435	-9,4	6895	-2,1	6849	-2,8	7041
404	[99]		7539	-4,6	8057	2,1	7277	-8,4	7569	-4,2	7610	-3,7	7889
405	[99]		8138	-0,4	8689	6	7817	-4,5	8033	-1,7	8169	0	8172
406	[99]		7278	-6,7	7503	-3,5	7069	-9,9	7301	-6,4	7288	-6,6	7768
407	[99]		7797	-2,1	8205	3	7565	-5,2	7725	-3	7823	-1,7	7959
408	[99]		7013	-0,8	6285	-12,5	6330	-11,7	6730	-5,1	6590	-7,3	7072
409	[99]		7458	-0,8	7941	5,4	7067	-6,4	7363	-2,1	7457	-0,8	7516
410	[99]		7573	-4,1	8057	2,2	7300	-8	7588	-3,9	7630	-3,3	7883
411	[99]		8066	-0,6	8689	6,6	7814	-3,8	8031	-1	8150	0,4	8114
412	[99]		8021	-2	8660	5,5	7692	-6,4	8051	-1,7	8106	-1	8185
413	[99]		7695	-2,9	8334	5	7286	-8,7	7842	-1	7789	-1,6	7917

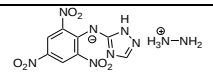
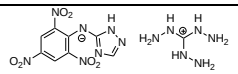
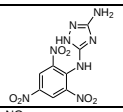
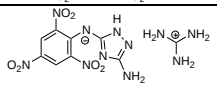
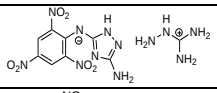
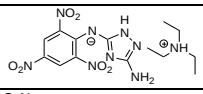
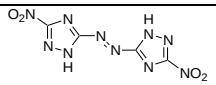
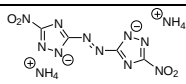
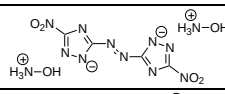
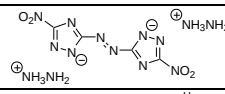
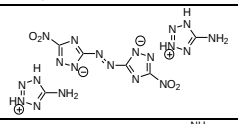
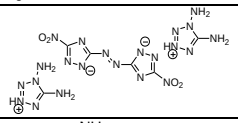
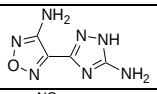
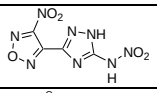
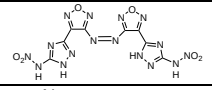
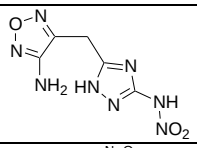
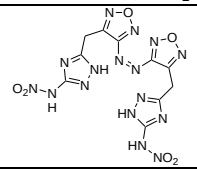
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
414	[99]		8253	-3,7	9155	6,6	8337	-2,6	8529	-0,3	8568	0,2	8555
415	[99]		7738	-8,4	8778	4,4	7990	-5	8201	-2,3	8177	-2,6	8388
416	[99]		8287	-6,2	9224	4,6	8534	-3,2	8712	-1,1	8689	-1,3	8804
417	[99]		8057	-1,6	8660	5,5	7657	-6,9	8024	-2	8100	-1,1	8186
418	[99]		8309	-5,3	9209	5	8336	-4,9	8634	-1,3	8622	-1,5	8748
419	[99]		8204	-5,5	9209	6	8270	-4,7	8579	-0,9	8566	-1,1	8659
420	[99]		8234	-3,8	8582	0,4	7944	-7,6	8188	-4,4	8237	-3,8	8548
421	[99]		8843	0	9144	3,3	8488	-4,2	8690	-1,8	8791	-0,6	8845
422	[99]		8573	-1,6	9200	5,4	8194	-6,3	8579	-1,5	8636	-0,8	8707
454	[103]		9004	3,1	9365	6,9	8061	-8,2	8561	-1,9	8748	0,3	8721
455	[103]		9167	8,3	9072	7,4	7682	-9,4	8171	-2,9	8523	1,4	8404
456	[103]		8545	3,6	9369	12,1	7853	-4,9	8262	0,3	8507	3,2	8237

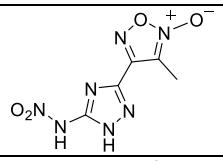
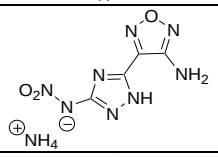
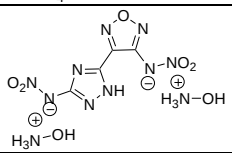
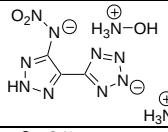
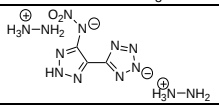
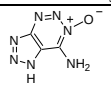
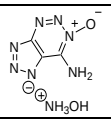
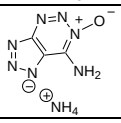
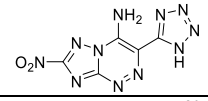
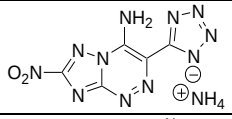
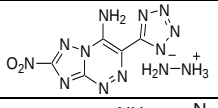
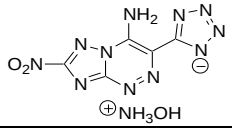
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
457	[103]		7316	-24,1	8793	-3,3	7746	-17,2	8223	-10,4	8020	-13,2	9082
458	[103]		6981	-20,3	8793	4,5	7344	-14,3	7893	-6,4	7753	-8,3	8396
459	[104]		8738	-4,3	9441	3,5	8378	-8,7	8823	-3,3	8845	-3	9111
465	[105]		9116	4,8	8788	1,3	8561	-1,3	8593	-0,9	8764	1	8674
469	[105]		8324	0,4	8868	6,5	7816	-6,1	8209	-1	8304	0,1	8292

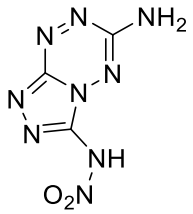
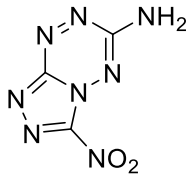
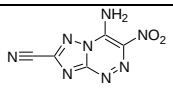
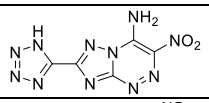
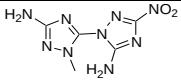
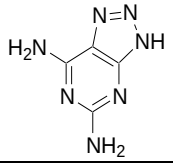
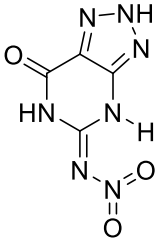
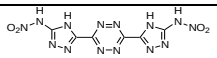
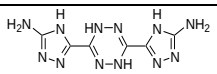
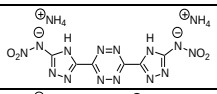
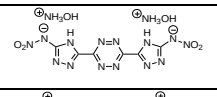
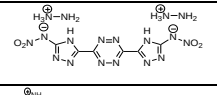
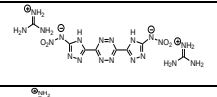
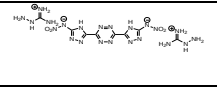
2.2.12 The detonation velocities of triazoles

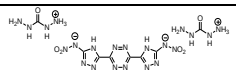
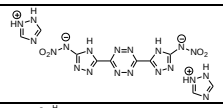
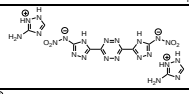
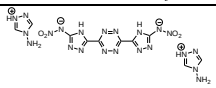
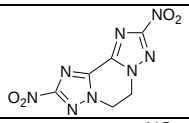
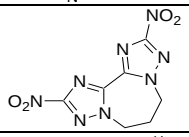
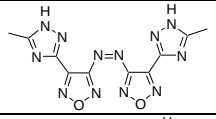
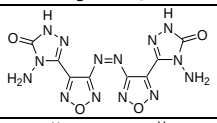
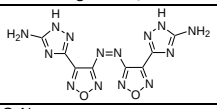
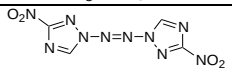
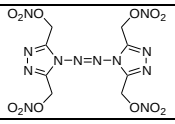
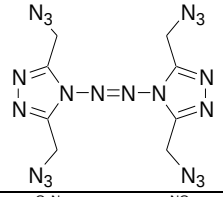
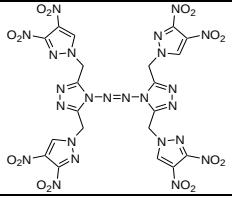
Table 42. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the triazoles.

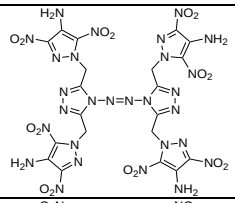
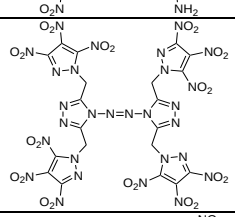
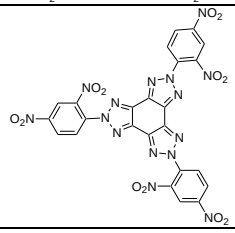
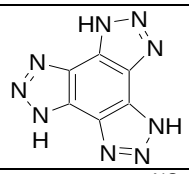
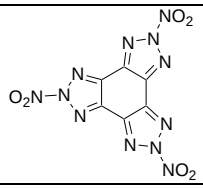
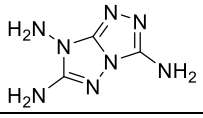
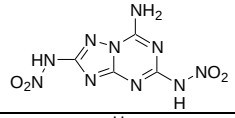
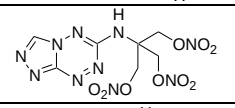
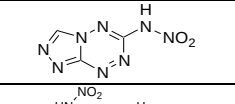
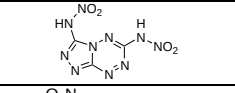
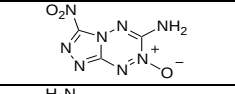
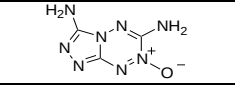
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
85	[23] [26]		8327	-2,6	8753	2,4	8081	-5,7	8396	-1,8	8389	-1,8	8543
9	[28]		8920	-3,7	9750	5,1	9397	1,6	9580	3,4	9409	1,7	9250
99	[55]		6680	-12,9	7482	-0,8	6988	-7,9	7140	-5,6	7072	-6,7	7543
100	[55]		6849	-21,2	7610	-9,1	7499	-10,7	7554	-9,9	7378	-12,5	8302
101	[55]		8064	-4,2	7486	-12,2	7729	-8,7	7651	-9,8	7732	-8,6	8400
102	[55]		5734	-21	5337	-30	6036	-14,9	6033	-15	5785	-19,9	6937

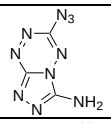
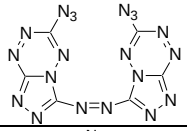
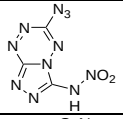
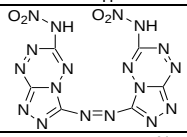
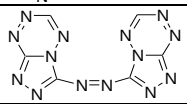
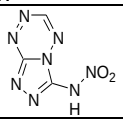
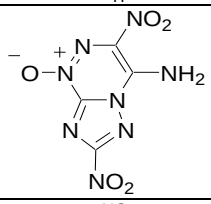
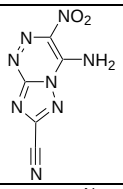
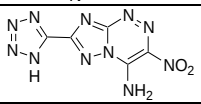
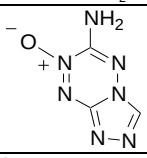
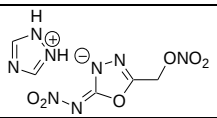
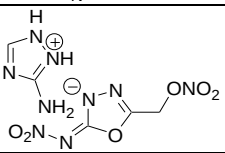
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
103	[55]		6913	-10,5	7630	-0,1	7233	-5,6	7339	-4,1	7279	-5	7640
104	[55]		5911	-28,5	7837	3,1	7086	-7,2	7316	-3,8	7038	-7,9	7597
105	[55]		7579	-7,9	7635	-7,1	7540	-8,5	7554	-8,3	7577	-7,9	8178
106	[55]		6281	-14,8	7610	5,3	6734	-7,1	6998	-3	6906	-4,4	7209
107	[55]		6277	-22	7728	0,9	7051	-8,6	7264	-5,4	7080	-8,1	7657
108	[55]		5704	-19,2	5530	-23	5949	-14,3	6030	-12,8	5803	-17,2	6802
156	[66]		8702	-2,9	9602	6,8	8421	-6,3	8845	-1,2	8892	-0,7	8952
157	[66]		8851	2,1	9200	5,8	7984	-8,5	8405	-3,1	8610	-0,6	8665
158	[66]		8767	-1	9558	7,3	8402	-5,4	8715	-1,6	8860	0	8857
159	[66]		8065	-13	9287	1,9	8359	-9	8749	-4,2	8615	-5,8	9114
160	[66]		7995	-2,9	9525	13,6	7862	-4,6	8448	2,6	8458	2,7	8226
161	[66]		8381	-3,8	9565	9	7826	-11,2	8494	-2,4	8566	-1,6	8702
194	[71]		7362	-5,9	5873	-32,8	6698	-16,4	7229	-7,9	6790	-14,8	7798
197	[73]		8578	-5,2	9389	3,9	8648	-4,4	8902	-1,4	8879	-1,6	9025
198	[73]		8709	-3	9045	0,8	8392	-6,9	8719	-2,9	8716	-2,9	8973
199	[73]		7361	-9,8	7834	-3,1	7456	-8,4	7699	-4,9	7588	-6,5	8079
200	[73]		7700	-5,5	8314	2,3	7607	-6,8	7890	-3	7878	-3,1	8125

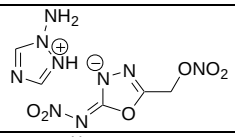
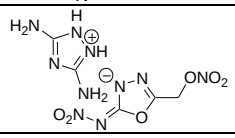
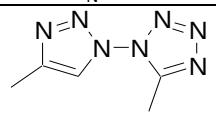
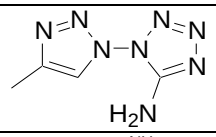
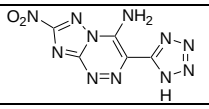
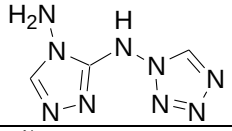
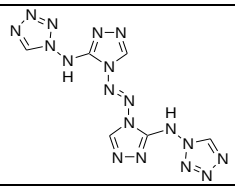
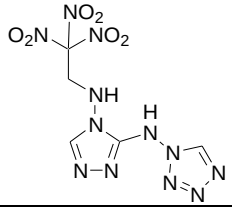
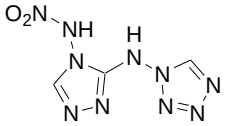
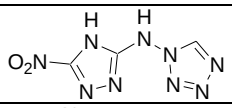
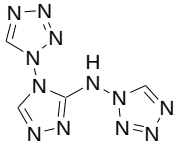
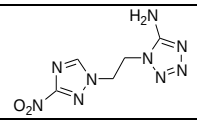
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
201	[73]		7810	-5,5	8098	-1,7	7873	-4,6	7986	-3,1	7942	-3,7	8236
202	[73]		7787	-4,4	8386	3,1	7494	-8,5	7872	-3,3	7885	-3,1	8130
203	[73]		8032	-13,7	9478	3,6	8286	-10,2	8505	-7,4	8575	-6,5	9135
208	[74]		8414	-10,3	9342	0,6	8591	-8	8900	-4,3	8812	-5,3	9282
209	[74]		7429	-21,4	8285	-8,9	8006	-12,7	8524	-5,8	7986	-13	9022
225	[79]		8151	-7,9	7641	-15,1	7868	-11,7	8330	-5,5	7998	-9,9	8792
228	[79]		8141	-5,7	8155	-5,5	7686	-12	8136	-5,8	8030	-7,2	8607
229	[79]		7726	-21,5	6237	-50,5	7594	-23,6	8128	-15,5	7421	-26,5	9385
230	[79]		8182	-6,9	6295	-38,9	7622	-14,7	8093	-8	7548	-15,8	8744
231	[80]		8711	-3,4	8709	-3,5	7792	-15,6	8300	-8,6	8378	-7,5	9010
233	[80]		8786	-0,1	8292	-6	7565	-16,2	8091	-8,7	8184	-7,4	8793
234	[80]		8466	-5,7	8309	-7,7	7932	-12,8	8403	-6,5	8278	-8,1	8950
235	[80]		8804	-4,7	8761	-5,2	8064	-14,3	8457	-9	8522	-8,2	9220

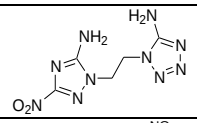
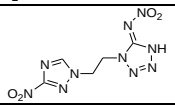
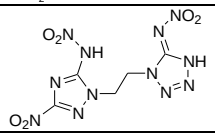
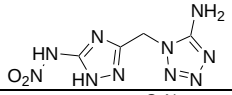
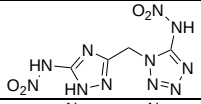
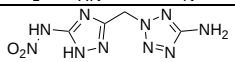
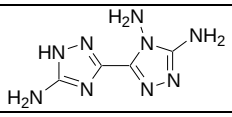
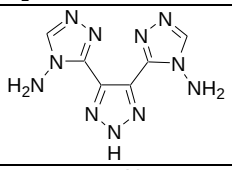
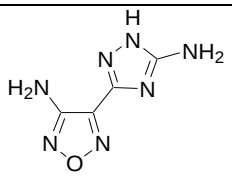
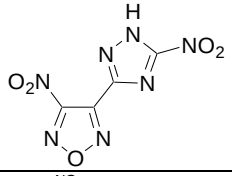
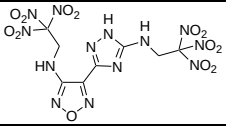
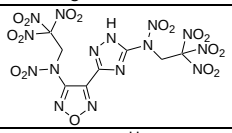
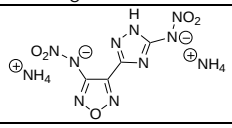
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
239	[81]		8293	-5,7	9288	5,7	8175	-7,2	8694	-0,8	8612	-1,8	8763
240	[81]		8647	-3,5	9344	4,2	8374	-6,9	8846	-1,2	8803	-1,7	8953
267	[88]		7990	2,8	8200	5,3	7186	-8	7644	-1,6	7607	-2,1	7763
268	[88]		8517	2,4	8709	4,6	7635	-8,9	8169	-1,8	8258	-0,7	8312
269	[89]		8003	6	7265	-3,5	7374	-2	7715	2,5	7589	0,9	7520
270	[90]		7121	-4,3	-	-	6163	-20,5	6875	-8	6720	-10,5	7426
271	[90]		8311	-6,4	8228	-7,5	7952	-11,2	8235	-7,4	8182	-8,1	8845
272	[91]		8390	-8,5	9171	0,8	8660	-5,1	9027	-0,8	8812	-3,3	9100
273	[91]		6734	-32,8	-	-	7645	-17	8043	-11,2	7474	-19,7	8943
274	[91]		8671	-2,6	8897	0	8145	-9,2	8512	-4,5	8556	-4	8898
275	[91]		8430	-9,9	9244	-0,2	8908	-4	9142	-1,4	8931	-3,8	9267
276	[91]		7702	-19,6	8989	-2,5	8412	-9,5	8765	-5,1	8467	-8,8	9214
277	[91]		7072	-27	8564	-4,8	7848	-14,4	8260	-8,7	7936	-13,1	8978
278	[91]		6517	-37,5	8660	-3,5	8032	-11,6	8420	-6,4	7907	-13,4	8963

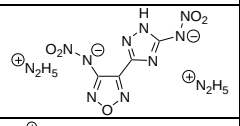
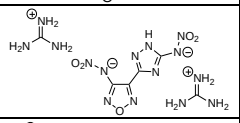
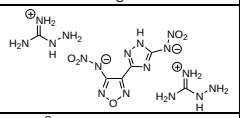
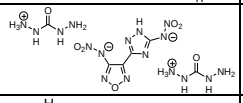
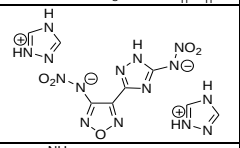
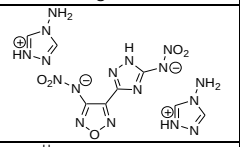
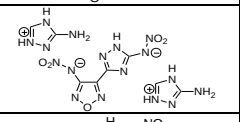
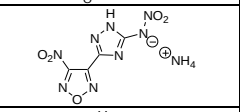
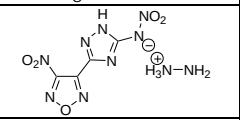
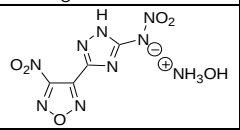
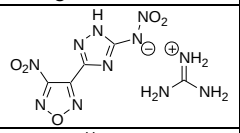
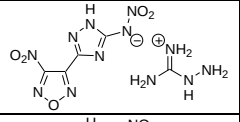
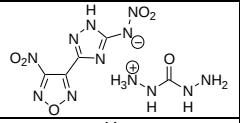
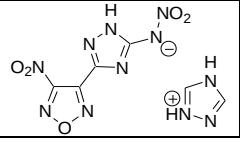
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
279	[91]		6805	-31,9	9033	0,6	8350	-7,5	8654	-3,7	8210	-9,4	8978
280	[91]		8067	-10,6	8375	-6,6	8002	-11,5	8330	-7,1	8194	-8,9	8925
281	[91]		7606	-18	8479	-5,9	8122	-10,5	8461	-6,1	8167	-9,9	8976
282	[91]		8175	-9,7	8479	-5,7	7934	-13	8309	-7,9	8224	-9	8966
303	[94]		8170	4,1	8059	2,7	7309	-7,2	7567	-3,6	7776	-0,8	7838
304	[94]		7624	3,8	7439	1,4	6832	-7,4	7078	-3,6	7243	-1,3	7336
308	[95]		7912	-7,2	6358	-33,4	6891	-23,1	7137	-18,8	7074	-19,9	8482
312	[95]		7687	-1,1	7951	2,2	7140	-8,9	7590	-2,4	7592	-2,4	7774
313	[95]		7853	-7,7	7693	-9,9	7180	-17,8	7645	-10,6	7593	-11,4	8458
315	[95]		8939	1,2	9602	8	8371	-5,5	8797	-0,4	8927	1,1	8830
316	[95]		8676	5,6	9005	9,1	8091	-1,2	8200	0,1	8493	3,6	8190
317	[95]		7361	-4,5	-	-	6962	-10,5	7657	-0,4	7327	-5	7690
318	[95]		9158	11,9	8130	0,7	7652	-5,5	7799	-3,5	8185	1,4	8070

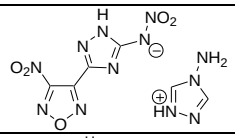
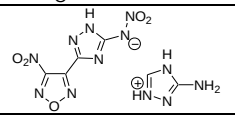
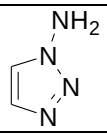
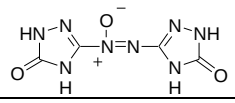
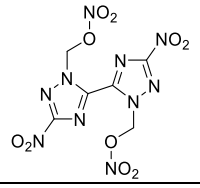
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
319	[95]		8385	2,3	8337	1,8	7731	-5,9	7904	-3,6	8089	-1,2	8190
320	[95]		10623	18,7	8785	1,7	8283	-4,3	8435	-2,4	9032	4,3	8640
336	[96]		7695	8,6	6535	-7,6	6493	-8,3	6593	-6,7	6829	-3	7032
337	[96]		7943	9,9	-	-	5902	-21,3	6725	-6,5	6857	-4,4	7160
338	[96]		9757	14,2	9443	11,3	8093	-3,5	8540	1,9	8958	6,5	8376
339	[96]		7542	-13,8	-	-	7087	-21,1	7751	-10,7	7460	-15	8580
346	[96]		8272	-6,2	9345	6	8368	-5	8721	-0,8	8676	-1,3	8787
350	[96]		8527	-8,9	8366	-11	8261	-12,5	8285	-12,1	8360	-11,1	9290
351	[96]		8392	-2,7	9344	7,7	8182	-5,4	8678	0,7	8649	0,3	8621
352	[96]		9014	-3,2	10102	7,9	9086	-2,4	9517	2,3	9430	1,4	9301
353	[96]		8865	-5,9	9622	2,5	8905	-5,4	9282	-1,1	9168	-2,4	9384
354	[96]		8221	-9,6	7457	-20,8	7761	-16,1	8298	-8,6	7934	-13,5	9008

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
355	[96]		8237	-4,2	-	-	7732	-11	8524	-0,7	8164	-5,1	8581
356	[96]		9413	7,7	-	-	8028	-8,2	8889	2,2	8777	1	8690
357	[96]		8921	-3,5	10187	9,3	8591	-7,5	9255	0,2	9238	0	9236
358	[96]		9494	-0,1	9816	3,2	6522	-45,7	7846	-21,1	8420	-12,8	9500
359	[96]		9587	4	-	-	8049	-14,3	8676	-6	8771	-4,9	9200
360	[96]		8574	-2,6	9344	5,8	8292	-6,1	8775	-0,3	8746	-0,6	8800
362	[96]		9029	0,7	9389	4,5	8594	-4,4	8850	-1,4	8966	0	8970
363	[96]		8185	5,2	8200	5,3	7349	-5,6	7773	0,1	7877	1,4	7763
364	[96]		8521	2,5	8709	4,6	7685	-8,2	8207	-1,3	8280	-0,4	8312
369	[97]		8007	-2,6	7641	-7,5	7487	-9,7	8012	-2,5	7787	-5,5	8215
371	[98]		8172	-5,6	8237	-4,8	7815	-10,4	7988	-8	8053	-7,2	8630
372	[98]		7614	-14,6	8361	-4,4	8584	-1,6	8651	-0,9	8302	-5,1	8725

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
373	[98]		7946	-11,7	8518	-4,2	8732	-1,7	8781	-1,1	8494	-4,5	8877
374	[98]		7511	-17,4	8622	-2,3	7910	-11,5	8153	-8,2	8049	-9,6	8821
377	[99]		6973	-10,8	-	-	6223	-24,1	6701	-15,3	6632	-16,5	7725
378	[99]		7146	-8,1		-	6741	-14,6	7292	-5,9	7060	-9,4	7724
391	[99]		8700	-3,6	8709	-3,5	7783	-15,8	8293	-8,6	8371	-7,6	9010
396	[99]		7591	-15,8	-	-	7632	-15,2	8236	-6,7	7820	-12,4	8789
397	[99]		8378	-2,6	-	-	7669	-12,1	8357	-2,9	8135	-5,7	8599
398	[99]		8409	-7,1	9346	3,7	8791	-2,4	9032	0,3	8894	-1,2	9004
399	[99]		8310	-10	9240	1,1	8591	-6,4	9065	-0,8	8802	-3,9	9141
400	[99]		8117	-9,5	9288	4,3	8541	-4	9016	1,5	8740	-1,7	8885
401	[99]		8409	-15,3	-	-	7848	-23,5	8514	-13,9	8257	-17,4	9695
423	[99]		7410	0,2	7265	-1,8	6690	-10,5	7181	-3	7136	-3,6	7395

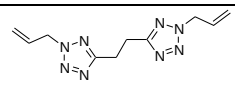
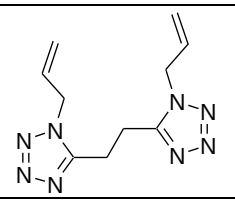
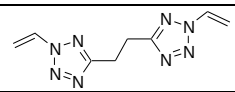
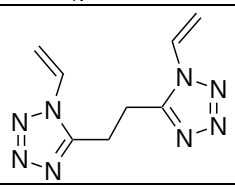
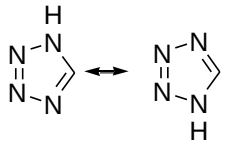
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
424	[99]		7492	-4,2	7349	-6,2	6879	-13,5	7390	-5,6	7278	-7,3	7807
425	[99]		7590	-6,9	8668	6,4	7534	-7,7	7887	-2,9	7920	-2,4	8113
426	[99]		7758	-12	9346	7	7947	-9,3	8299	-4,7	8338	-4,2	8690
427	[99]		7611	-7,6	8236	0,6	7406	-10,5	7929	-3,3	7796	-5	8187
428	[99]		8222	-6,4	9388	6,8	7847	-11,5	8356	-4,7	8453	-3,5	8750
429	[99]		7644	-7,4	8236	0,3	7411	-10,8	7937	-3,5	7807	-5,2	8213
430	[100]		7006	-11,6	-	-	6392	-22,3	7191	-8,7	6863	-13,9	7818
431	[100]		7266	-7,4	-	-	6508	-19,9	7128	-9,5	6967	-12	7806
432	[101]		6986	2	5873	-16,6	6656	-2,9	7161	4,4	6669	-2,7	6846
433	[101]		8837	-3,6	9321	1,8	8668	-5,6	8907	-2,8	8933	-2,5	9152
434	[101]		8849	-2,7	9135	0,5	8962	-1,4	8980	-1,2	8982	-1,2	9087
435	[101]		10100	7,4	9560	2,1	9383	0,3	9455	1,1	9624	2,8	9355
436	[101]		8861	-0,4	9163	2,9	8274	-7,5	8549	-4,1	8712	-2,1	8897

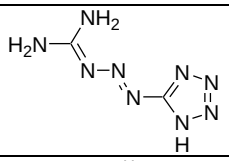
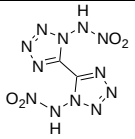
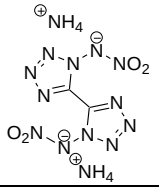
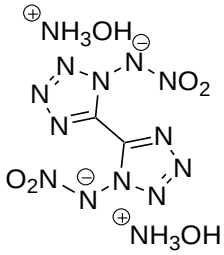
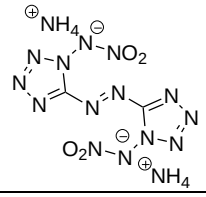
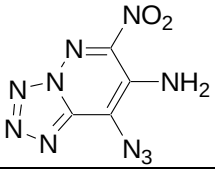
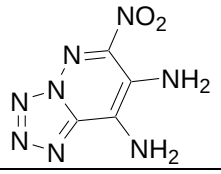
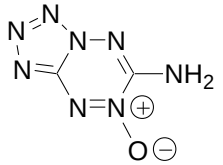
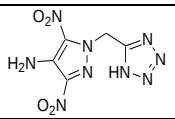
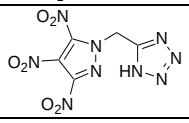
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
437	[101]		7947	-13,8	9281	2,5	8716	-3,8	8949	-1,1	8723	-3,7	9045
438	[101]		6635	-19,7	8748	9,2	7260	-9,4	7740	-2,6	7596	-4,6	7942
439			6301	-34,2	8872	4,7	7723	-9,5	8109	-4,3	7751	-9,1	8455
440	[101]		6517	-25,2	9198	11,3	8000	-2	8300	1,7	8004	-1,9	8159
441			7905	-5,5	8466	1,5	7763	-7,4	8055	-3,6	8047	-3,7	8341
442	[101]		7945	-8,8	8604	-0,4	7934	-8,9	8233	-5	8179	-5,7	8642
443	[101]		7405	-13,1	8604	2,7	7640	-9,6	8006	-4,6	7914	-5,8	8373
444	[101]		8748	0,4	8998	3,1	8371	-4,1	8610	-1,2	8682	-0,4	8716
445	[101]		8384	-8,1	9297	2,5	8677	-4,4	8892	-1,9	8812	-2,8	9060
446	[101]		8695	-3	9383	4,6	8747	-2,4	8913	-0,5	8934	-0,2	8954
447	[101]		7419	-7,7	8964	10,9	7576	-5,5	7951	-0,5	7978	-0,2	7990
448	[101]		7202	-13,7	9033	9,4	7771	-5,4	8120	-0,8	8032	-1,9	8187
449	[101]		7319	-12,8	9196	10,2	7932	-4,1	8238	-0,2	8171	-1	8256
450	[101]		8008	-2,4	8778	6,6	7773	-5,5	8084	-1,4	8161	-0,4	8197

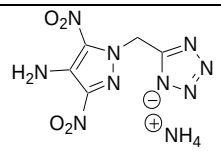
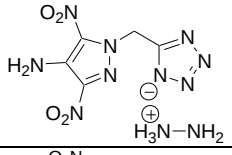
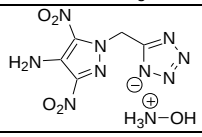
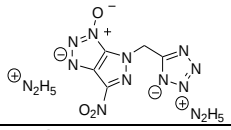
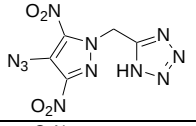
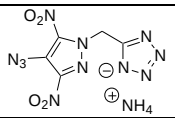
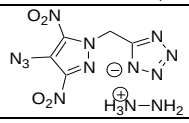
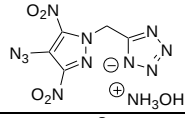
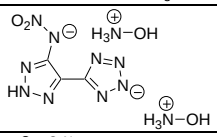
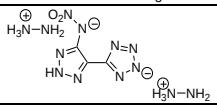
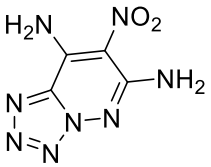
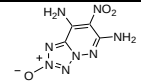
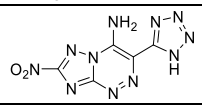
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
451	[101]		8157	-3,3	8853	4,8	7962	-5,8	8261	-2	8308	-1,4	8424
452	[101]		7795	-4,6	8853	7,9	7697	-5,9	8048	-1,3	8098	-0,7	8151
463	[24]		6697	-16	-	-	6268	-23,9	6882	-12,9	6616	-17,4	7767
464	[24]		7991	-2,7	7983	-2,8	7357	-11,5	7908	-3,7	7810	-5	8204
468	[105]		9281	6,9	9065	4,7	8460	-2,1	8604	-0,4	8852	2,4	8639

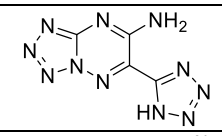
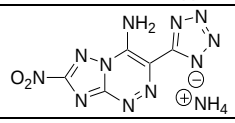
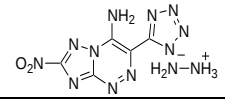
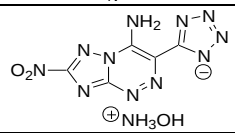
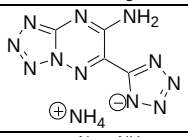
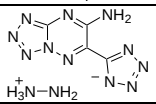
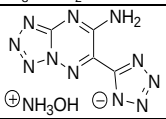
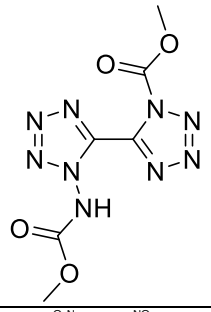
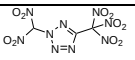
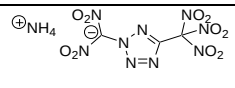
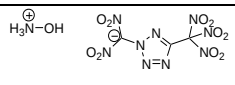
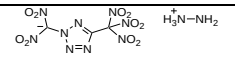
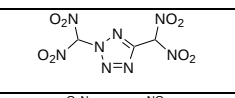
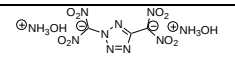
2.2.13 The detonation velocities of tetrazoles

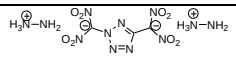
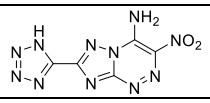
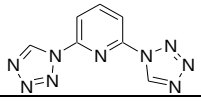
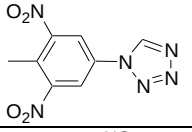
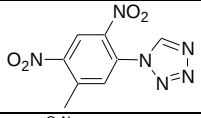
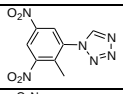
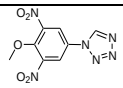
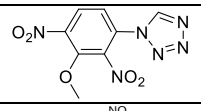
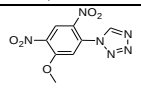
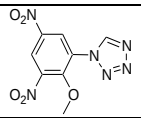
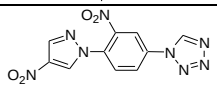
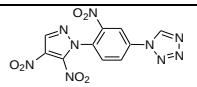
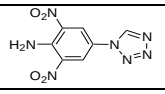
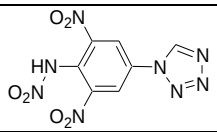
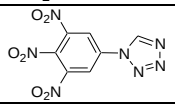
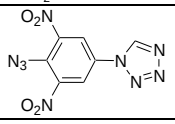
Table 43. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the tetrazoles.

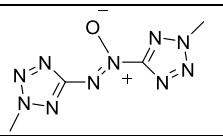
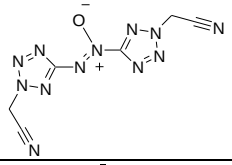
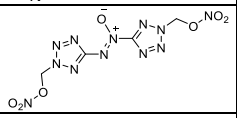
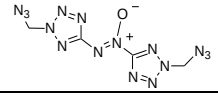
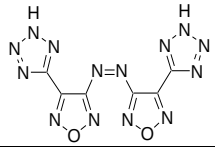
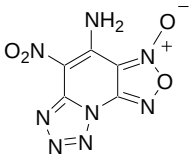
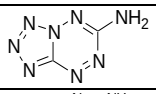
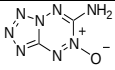
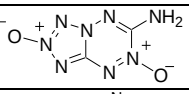
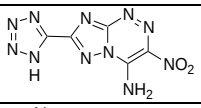
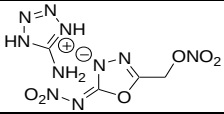
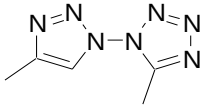
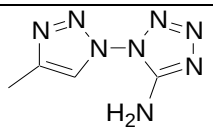
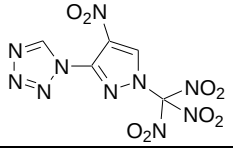
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
12	[30]		5408	-13,7	-	-	4514	-36,2	5243	-17,3	5055	-21,6	6148
13	[30]		5408	-14	-	-	4535	-36	5257	-17,3	5067	-21,7	6167
14	[30]		6310	-12,7	-	-	5284	-34,5	5843	-21,7	5812	-22,3	7109
15	[30]		6310	-13	-	-	5296	-34,7	5852	-21,9	5819	-22,6	7132
58	[38]		7165	-9,3	-	-	6781	-15,5	7710	-1,6	7219	-8,5	7831

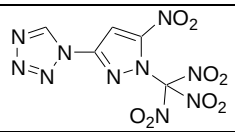
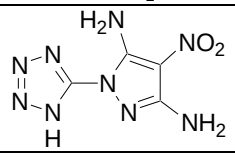
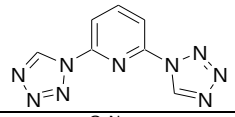
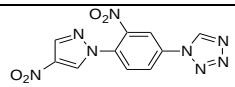
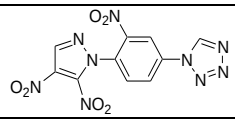
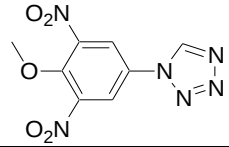
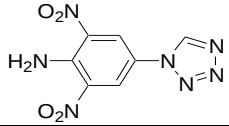
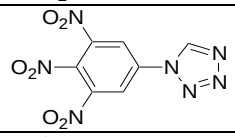
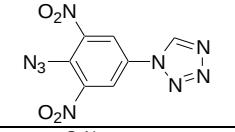
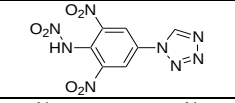
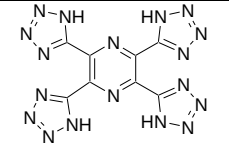
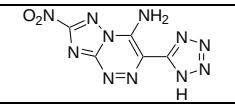
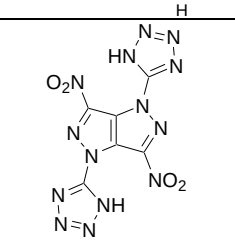
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
63	[38]		7964	-22,2	-	-	7514	-29,5	8526	-14,1	8001	-21,6	9729
109	[56]		9428	-7,6	10855	6,6	9715	-4,4	10282	1,4	10070	-0,7	10142
110	[56]		9497	-0,2	10312	7,7	8173	-16,5	8900	-7	9220	-3,2	9519
111	[56]		9372	-5,5	10556	6,4	9399	-5,2	9778	-1,1	9776	-1,1	9885
112	[56]		9442	-0,3	10504	9,8	8778	-7,9	9361	-1,2	9521	0,5	9472
131	[61]		8540	-2,4	9212	5,1	8079	-8,3	8608	-1,6	8610	-1,6	8746
132	[61]		8064	-4,6	8179	-3,1	7630	-10,5	8025	-5,1	7974	-5,8	8434
149	[40]		8885	-5	9359	0,4	8550	-9,1	9206	-1,3	9000	-3,6	9326
173	[69]		8234	-3,8	8582	0,4	7944	-7,6	8188	-4,4	8237	-3,8	8548
174	[69]		8843	0	9144	3,3	8488	-4,2	8690	-1,8	8791	-0,6	8845

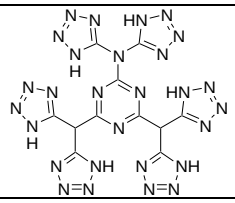
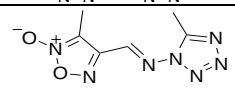
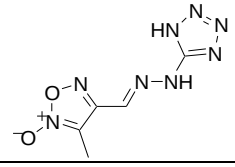
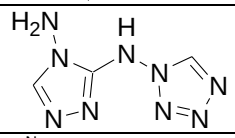
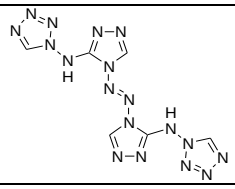
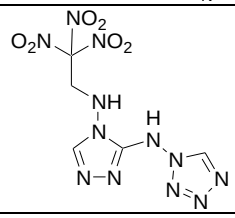
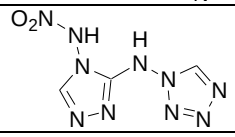
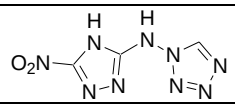
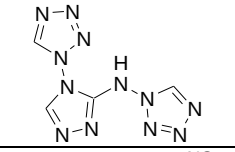
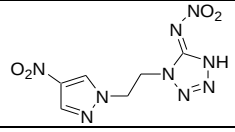
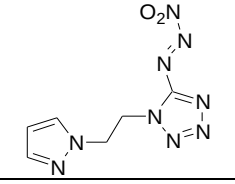
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
175	[69]		7998	-1,9	8433	3,3	7614	-7,1	7900	-3,2	7986	-2,1	8153
176	[69]		7458	-10,8	8521	3	7696	-7,4	7992	-3,4	7917	-4,4	8264
177	[69]		8096	-6,1	8696	1,2	8118	-5,8	8293	-3,6	8301	-3,5	8592
178	[69]		7755	-13,2	8342	-5,2	7914	-10,9	8269	-6,2	8070	-8,8	8778
179	[69]		8573	-1,6	9200	5,4	8194	-6,3	8579	-1,5	8636	-0,8	8707
180	[69]		8223	0,7	9028	9,5	7740	-5,5	8150	-0,2	8285	1,4	8167
181	[69]		8077	-7	9081	4,9	8137	-6,2	8503	-1,6	8450	-2,2	8640
182	[69]		8526	-2,6	9210	5	8354	-4,7	8652	-1,1	8686	-0,7	8747
208	[74]		8414	-10,3	9342	0,6	8591	-8	8900	-4,3	8812	-5,3	9282
209	[74]		7429	-21,4	8285	-8,9	8006	-12,7	8524	-5,8	7986	-13	9022
223	[78]		8297	-7,3	8179	-8,8	7731	-15,1	8115	-9,7	8080	-10,1	8899
224	[78]		8464	-6,6	8669	-4,1	8281	-8,9	8530	-5,8	8486	-6,3	9021
231	[80]		8711	-3,4	8709	-3,5	7792	-15,6	8300	-8,6	8378	-7,5	9010

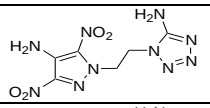
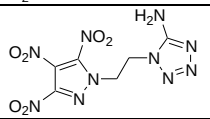
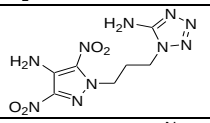
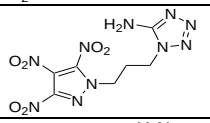
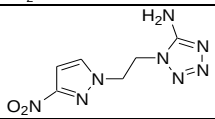
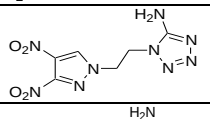
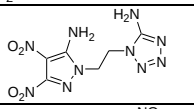
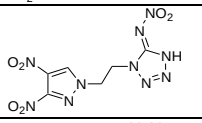
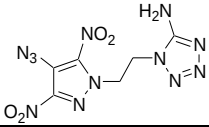
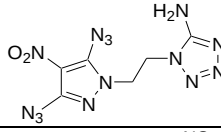
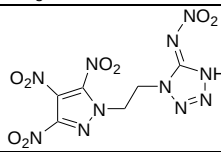
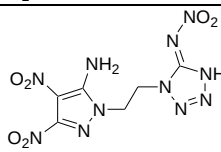
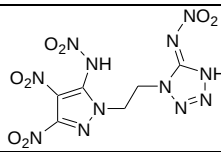
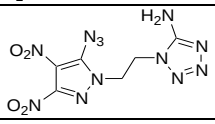
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
232	[80]		8415	0,6	-	-	7446	-12,4	8195	-2,1	8019	-4,3	8367
233	[80]		8786	-0,1	8292	-6	7565	-16,2	8091	-8,7	8184	-7,4	8793
234	[80]		8466	-5,7	8309	-7,7	7932	-12,8	8403	-6,5	8278	-8,1	8950
235	[80]		8804	-4,7	8761	-5,2	8064	-14,3	8457	-9	8522	-8,2	9220
236	[80]		8448	1,6	-	-	7117	-16,8	7909	-5,1	7825	-6,2	8313
237	[80]		8055	-7,7	-	-	7432	-16,8	8161	-6,3	7883	-10,1	8679
238	[80]		8392	-2,7	7414	-16,2	7576	-13,8	8242	-4,6	6221	-38,5	8618
241	[82]		7630	3	7063	-4,8	7122	-3,9	7409	0,1	7306	-1,3	7403
254	[85]		9651	11,8	9252	8	9432	9,8	9684	12,1	9505	10,5	8511
255	[85]		9317	7,5	9678	11	9109	5,4	9332	7,7	9359	7,9	8617
256	[85]		9683	6,5	9450	4,2	9729	6,9	9873	8,3	9762	7,3	9054
257	[85]		8926	0,1	9881	9,7	8889	-0,3	9166	2,7	9216	3,2	8920
258	[85]		9515	4,1	9750	6,4	9393	2,9	9587	4,8	9561	4,6	9123
259	[85]		9214	-4,1	10057	4,6	9558	-0,3	9604	0,1	9608	0,2	9590

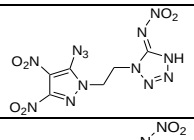
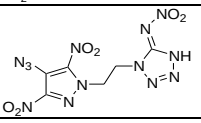
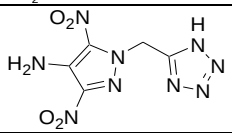
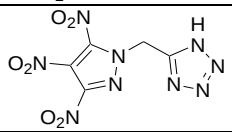
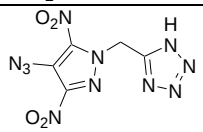
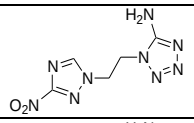
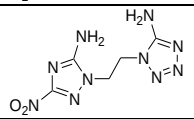
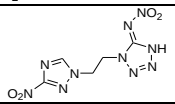
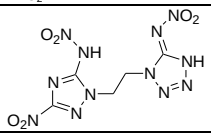
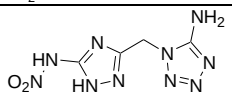
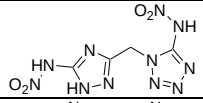
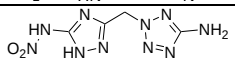
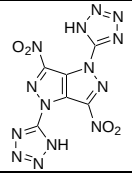
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
260	[85]		8272	-11,6	9998	7,7	9167	-0,7	9329	1,1	9192	-0,4	9230
268	[88]		8517	2,4	8709	4,6	7635	-8,9	8169	-1,8	8258	-0,7	8312
283	[92]		7504	5,1	-	-	6188	-15,1	6707	-6,2	6800	-4,7	7120
284	[92]		7421	-0,1	6492	-14,5	6833	-8,8	6865	-8,3	6903	-7,7	7432
285	[92]		7322	0,2	6492	-12,5	6754	-8,2	6813	-7,2	6845	-6,7	7305
286	[92]		7290	0,6	6492	-11,6	6706	-8	6777	-6,9	6816	-6,3	7243
287	[92]		7651	5,3	6688	-8,4	7097	-2,1	7075	-2,4	7128	-1,7	7247
288	[92]		7384	1,6	6688	-8,7	6849	-6,1	6900	-5,3	6955	-4,5	7268
289	[92]		7484	0,7	6688	-11,1	6977	-6,5	6995	-6,2	7036	-5,6	7432
290	[92]		7517	1	6688	-11,3	7006	-6,2	7015	-6,1	7056	-5,5	7442
291	[92]		7465	4,3	6496	-9,9	6626	-7,8	6771	-5,5	6840	-4,4	7142
292	[92]		7860	0,6	7338	-6,5	7104	-10	7239	-7,9	7385	-5,8	7812
293	[92]		7522	-5	7279	-8,5	7051	-12	7192	-9,8	7261	-8,8	7899
294	[92]		8026	-2,2	8121	-1	7816	-4,9	7917	-3,6	7970	-2,9	8202
295	[92]		8479	2,1	7988	-3,9	7989	-3,9	8022	-3,4	8120	-2,2	8298
296	[92]		7937	2,6	8027	3,7	7395	-4,6	7677	-0,7	7759	0,3	7734

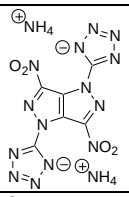
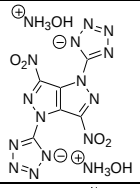
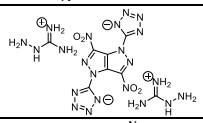
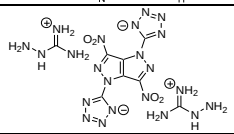
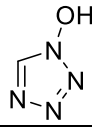
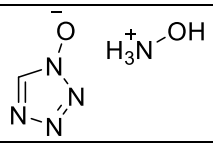
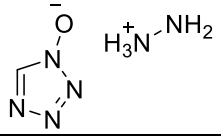
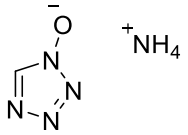
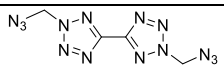
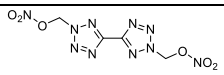
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
297	[93]		7743	3,6	6736	-10,8	6729	-10,9	7423	-0,6	7158	-4,3	7465
298	[93]		7566	4	7446	2,5	6635	-9,4	7318	0,8	7241	-0,3	7262
299	[93]		8866	9	10007	19,4	8035	-0,4	8481	4,9	8847	8,8	8066
300	[93]		8162	11,4	9067	20,3	6631	-9	7745	6,7	7901	8,5	7228
310	[95]		8415	-0,7	9053	6,4	7486	-13,2	8118	-4,4	8268	-2,5	8477
335	[96]		9194	3,9	8753	-1	8838	0	9037	2,2	8956	1,3	8838
347	[96]		8086	-4,5	-	-	7664	-10,2	8502	0,6	8084	-4,5	8449
348	[96]		8885	-5	9359	0,4	8551	-9,1	9207	-1,3	9000	-3,6	9326
349	[96]		9219	-4,1	10037	4,4	8979	-6,9	9517	-0,9	9438	-1,7	9600
364	[96]		8521	2,5	8709	4,6	7685	-8,2	8207	-1,3	8280	-0,4	8312
375	[98]		7929	-15,3	9166	0,3	8990	-1,7	9162	0,2	8812	-3,7	9142
377	[99]		6973	-10,8	-	-	6223	-24,1	6701	-15,3	6632	-16,5	7725
378	[99]		7146	-8,1	-	-	6741	-14,6	7292	-5,9	7060	-9,4	7724
379	[99]		9124	2,9	9554	7,3	8641	-2,5	8898	0,4	9054	2,1	8860

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
380	[99]		9005	2,5	9554	8,1	8566	-2,5	8834	0,6	8990	2,3	8780
381	[99]		7724	-6,9	8209	-0,6	6410	-28,8	7360	-12,2	7426	-11,2	8257
382	[99]		7504	5,1	-	-	6188	-15,1	6707	-6,2	6800	-4,7	7120
383	[99]		7465	4,3	6496	-9,9	6626	-7,8	6771	-5,5	6840	-4,4	7142
384	[99]		7860	0,6	7338	-6,5	7104	-10	7239	-7,9	7385	-5,8	7812
385	[99]		7651	4,9	6859	-6,1	7097	-2,5	7075	-2,8	7170	-1,5	7274
386	[99]		7522	-5	7279	-8,5	7051	-12	7192	-9,8	7261	-8,8	7899
387	[99]		8479	2,1	7988	-3,9	7989	-3,9	8022	-3,4	8120	-2,2	8298
388	[99]		7937	2,6	8027	3,7	7395	-4,6	7677	-0,7	7759	0,3	7734
389	[99]		8026	-2,3	8121	-1,1	7816	-5	7917	-3,7	7970	-3	8208
390	[99]		8856	2,3	-	-	7518	-15,1	8191	-5,7	8188	-5,7	8655
391	[99]		8700	-3,6	8709	-3,5	7783	-15,8	8293	-8,6	8371	-7,6	9010
392	[99]		9004	3,1	9365	6,9	8061	-8,2	8561	-1,9	8748	0,3	8721

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
393	[99]		8865	16,2	-	-	7280	-2,1	8065	7,9	8070	7,9	7430
394	[99]		7194	4,1	6118	-12,8	6644	-3,9	6903	0	6715	-2,8	6900
395	[99]		7264	-10	7169	-11,5	7407	-7,9	7685	-4	7381	-8,3	7991
396	[99]		7591	-15,8	-	-	7632	-15,2	8236	-6,7	7820	-12,4	8789
397	[99]		8378	-2,6	-	-	7669	-12,1	8357	-2,9	8135	-5,7	8599
398	[99]		8409	-7,1	9346	3,7	8791	-2,4	9032	0,3	8894	-1,2	9004
399	[99]		8310	-10	9240	1,1	8591	-6,4	9065	-0,8	8802	-3,9	9141
400	[99]		8117	-9,5	9288	4,3	8541	-4	9016	1,5	8740	-1,7	8885
401	[99]		8409	-15,3	-	-	7848	-23,5	8514	-13,9	8257	-17,4	9695
402	[99]		7665	-2,1	7941	1,5	7337	-6,6	7571	-3,3	7628	-2,6	7824
403	[99]		7192	2,1	6873	-2,4	6435	-9,4	6895	-2,1	6849	-2,8	7041

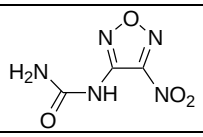
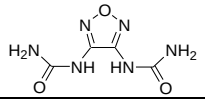
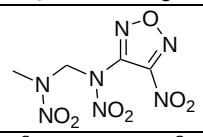
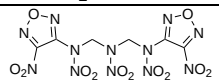
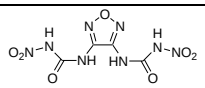
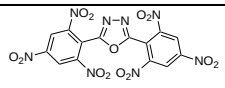
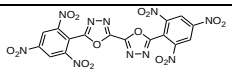
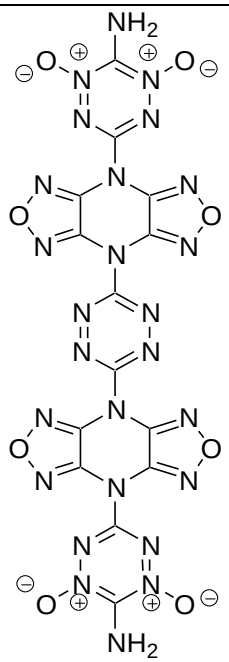
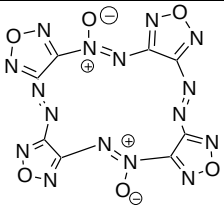
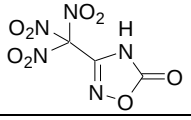
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
404	[99]		7539	-4,6	8057	2,1	7277	-8,4	7569	-4,2	7610	-3,7	7889
405	[99]		8138	-0,4	8689	6	7817	-4,5	8033	-1,7	8169	0	8172
406	[99]		7278	-6,7	7503	-3,5	7069	-9,9	7301	-6,4	7288	-6,6	7768
407	[99]		7797	-2,1	8205	3	7565	-5,2	7725	-3	7823	-1,7	7959
408	[99]		7013	-0,8	6285	-12,5	6330	-11,7	6730	-5,1	6590	-7,3	7072
409	[99]		7458	-0,8	7941	5,4	7067	-6,4	7363	-2,1	7457	-0,8	7516
410	[99]		7573	-4,1	8057	2,2	7300	-8	7588	-3,9	7630	-3,3	7883
411	[99]		8066	-0,6	8689	6,6	7814	-3,8	8031	-1	8150	0,4	8114
412	[99]		8021	-2	8660	5,5	7692	-6,4	8051	-1,7	8106	-1	8185
413	[99]		7695	-2,9	8334	5	7286	-8,7	7842	-1	7789	-1,6	7917
414	[99]		8253	-3,7	9155	6,6	8337	-2,6	8529	-0,3	8568	0,2	8555
415	[99]		7738	-8,4	8778	4,4	7990	-5	8201	-2,3	8177	-2,6	8388
416	[99]		8287	-6,2	9224	4,6	8534	-3,2	8712	-1,1	8689	-1,3	8804
417	[99]		8057	-1,6	8660	5,5	7657	-6,9	8024	-2	8100	-1,1	8186

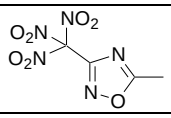
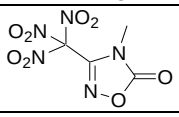
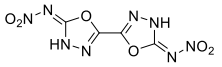
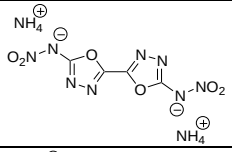
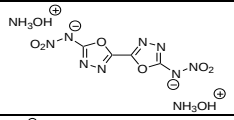
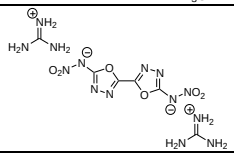
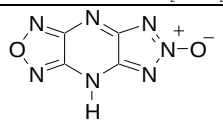
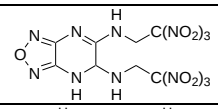
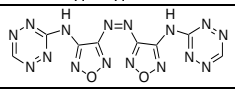
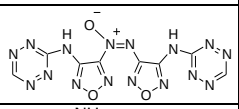
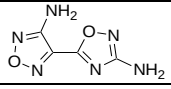
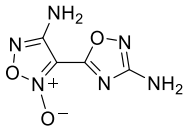
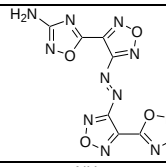
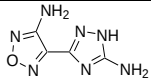
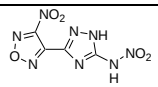
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
418	[99]		8309	-5,3	9209	5	8336	-4,9	8634	-1,3	8622	-1,5	8748
419	[99]		8204	-5,5	9209	6	8270	-4,7	8579	-0,9	8566	-1,1	8659
420	[99]		8234	-3,8	8582	0,4	7944	-7,6	8188	-4,4	8237	-3,8	8548
421	[99]		8843	0	9144	3,3	8488	-4,2	8690	-1,8	8791	-0,6	8845
422	[99]		8573	-1,6	9200	5,4	8194	-6,3	8579	-1,5	8636	-0,8	8707
423	[99]		7410	0,2	7265	-1,8	6690	-10,5	7181	-3	7136	-3,6	7395
424	[99]		7492	-4,2	7349	-6,2	6879	-13,5	7390	-5,6	7278	-7,3	7807
425	[99]		7590	-6,9	8668	6,4	7534	-7,7	7887	-2,9	7920	-2,4	8113
426	[99]		7758	-12	9346	7	7947	-9,3	8299	-4,7	8338	-4,2	8690
427	[99]		7611	-7,6	8236	0,6	7406	-10,5	7929	-3,3	7796	-5	8187
428	[99]		8222	-6,4	9388	6,8	7847	-11,5	8356	-4,7	8453	-3,5	8750
429	[99]		7644	-7,4	8236	0,3	7411	-10,8	7937	-3,5	7807	-5,2	8213
454	[103]		9004	3,1	9365	6,9	8061	-8,2	8561	-1,9	8748	0,3	8721

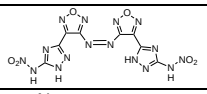
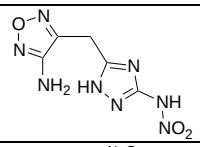
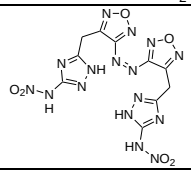
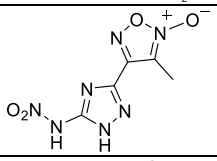
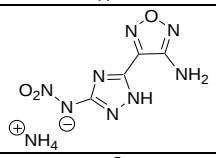
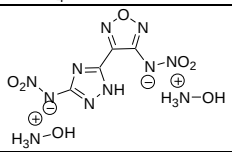
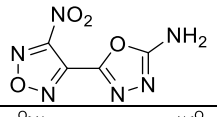
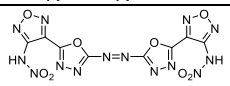
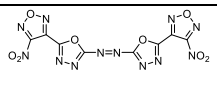
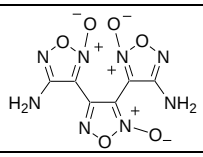
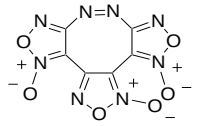
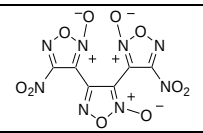
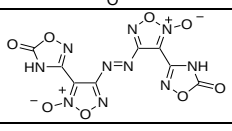
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
455	[103]		9167	8,3	9072	7,4	7682	-9,4	8171	-2,9	8523	1,4	8404
456	[103]		8545	3,6	9369	12,1	7853	-4,9	8262	0,3	8507	3,2	8237
457	[103]		7316	-24,1	8793	-3,3	7746	-17,2	8223	-10,4	8020	-13,2	9082
458	[103]		6981	-20,3	8793	4,5	7344	-14,3	7893	-6,4	7753	-8,3	8396
474	[106]		7840	-7,2	8682	3,2	7977	-5,4	8516	1,3	8254	-1,8	8405
475	[106]		7869	-18	8814	-5,3	7818	-18,8	8333	-11,4	8208	-13,1	9284
476	[106]		7343	-28,5	6198	-52,3	7838	-20,4	8394	-12,4	7443	-26,8	9437
477	[106]		7646	-4,8	6287	-27,5	7683	-4,3	8207	2,4	7456	-7,5	8013
478	[107]		8073	-1	-	-	7444	-9,6	8238	1	7918	-3	8155
479	[107]		8693	3,6	9054	7,5	8152	-2,8	8496	1,4	8599	2,6	8377

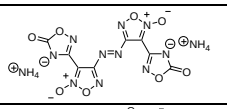
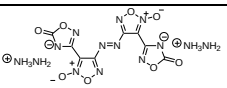
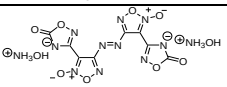
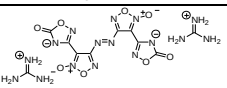
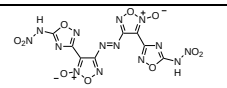
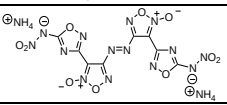
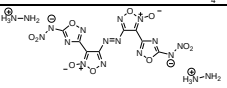
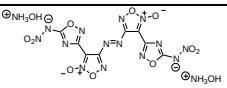
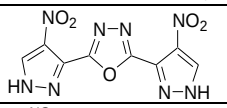
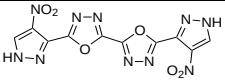
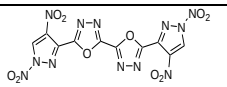
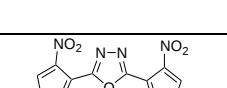
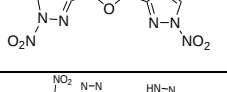
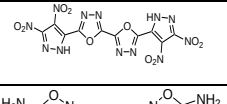
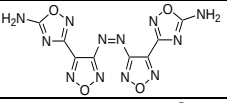
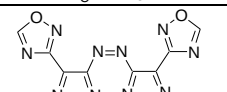
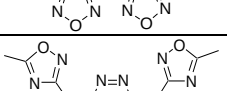
2.2.14 The detonation velocities of oxazoles

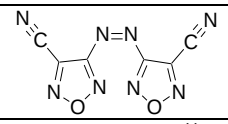
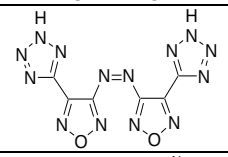
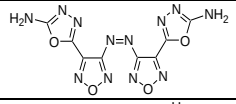
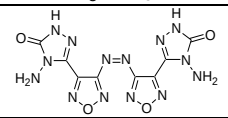
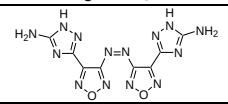
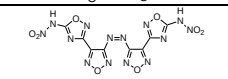
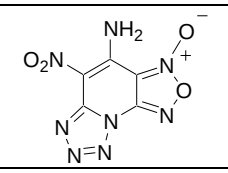
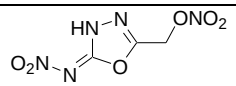
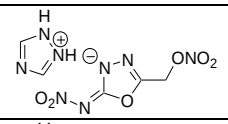
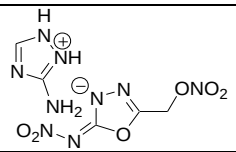
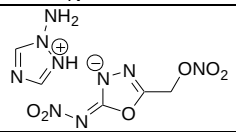
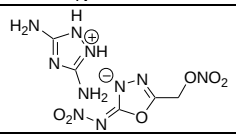
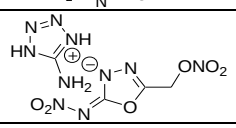
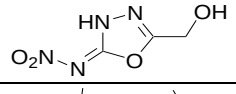
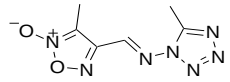
Table 44. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the oxazoles.

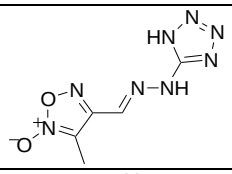
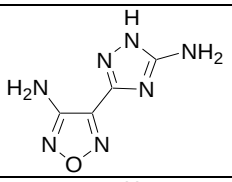
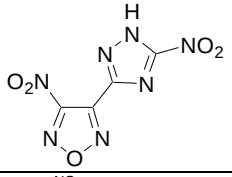
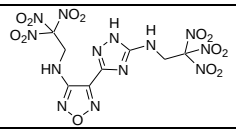
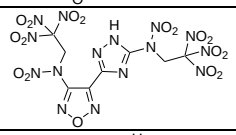
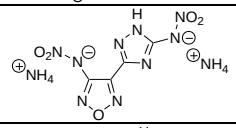
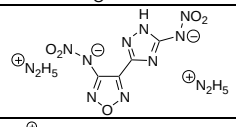
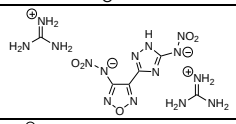
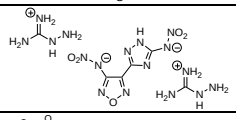
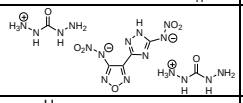
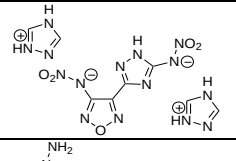
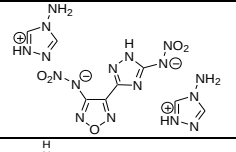
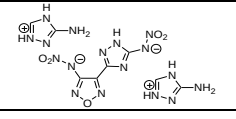
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
4	[25]		7511	-3,3	8516	8,9	7751	-0,1	7979	2,8	7939	2,3	7759
8	[25]		7547	-9,8	6885	-20,3	7281	-13,8	7590	-9,1	7326	-13,1	8283
10	[29]		8433	-1,9	9184	6,4	8579	-0,2	8644	0,6	8710	1,3	8596
11	[29]		9912	5,8	9600	2,8	9248	-0,9	9364	0,3	9531	2,1	9334
16	[25]		7901	-9,9	8908	2,5	8487	-2,3	8671	-0,2	8492	-2,3	8685
22	[32] [33]		8083	3	7350	-6,7	7543	-3,9	7478	-4,8	7614	-3	7840
23	[32]		8543	6	7377	-8,9	7547	-6,4	7486	-7,3	7738	-3,8	8030
42	[38]		10236	15	8854	1,7	8184	-6,3	8559	-1,6	8958	2,9	8700
43	[38] [39]		9368	0	9283	-0,9	8217	-14	8696	-7,7	8891	-5,4	9368
96	[54]		9158	3,9	8870	0,8	9619	8,5	9658	8,9	9326	5,7	8798

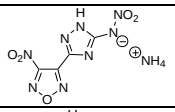
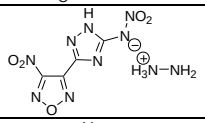
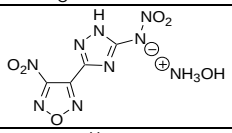
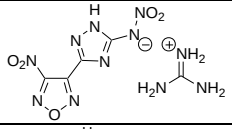
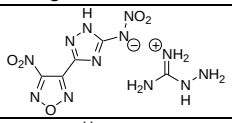
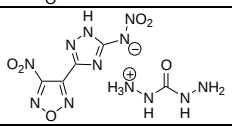
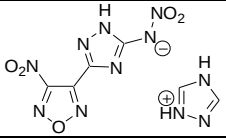
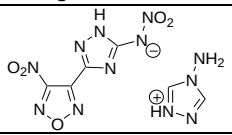
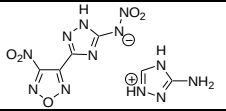
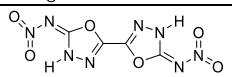
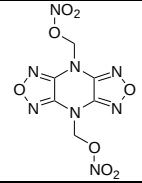
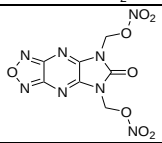
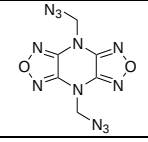
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
97	[54]		8696	-1	8980	2,2	8686	-1,1	8655	-1,4	8754	-0,3	8779
98	[54]		8655	-1,7	8404	-4,8	8868	0,7	8835	0,4	8690	-1,3	8804
123	[58]		8731	-7,5	8566	-9,6	8941	-5	9130	-2,8	8842	-6,2	9388
124	[58]		9685	4,7	8653	-6,6	8467	-9	8698	-6,1	8876	-3,9	9225
125	[58]		9231	0,5	8968	-2,4	8953	-2,6	9042	-1,6	9048	-1,5	9186
126	[58]		7315	-9,7	8386	4,3	7489	-7,2	7931	-1,2	7780	-3,2	8027
137	[63]		8467	-0,8	8748	2,5	7913	-7,8	8314	-2,6	8360	-2,1	8532
138	[63]		8005	-5	8907	5,6	8430	0,2	8483	0,9	8456	0,6	8409
162	[67]		8078	0	8373	3,6	7457	-8,3	7996	-1	7976	-1,2	8075
163	[67]		8471	0,8	8644	2,8	7752	-8,4	8223	-2,2	8272	-1,6	8401
191	[71]		7542	1,1	7458	0	6820	-9,4	7227	-3,2	7262	-2,7	7459
192	[71]		8004	-2,4	8085	-1,3	7576	-8,1	7787	-5,2	7863	-4,2	8193
193	[71]		7976	5,4	8192	7,9	6964	-8,4	7405	-1,9	7634	1,1	7547
194	[71]		7362	-5,9	5873	-32,8	6698	-16,4	7229	-7,9	6790	-14,8	7798
197	[73]		8578	-5,2	9389	3,9	8648	-4,4	8902	-1,4	8879	-1,6	9025

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
198	[73]		8709	-3	9045	0,8	8392	-6,9	8719	-2,9	8716	-2,9	8973
199	[73]		7361	-9,8	7834	-3,1	7456	-8,4	7699	-4,9	7588	-6,5	8079
200	[73]		7700	-5,5	8314	2,3	7607	-6,8	7890	-3	7878	-3,1	8125
201	[73]		7810	-5,5	8098	-1,7	7873	-4,6	7986	-3,1	7942	-3,7	8236
202	[73]		7787	-4,4	8386	3,1	7494	-8,5	7872	-3,3	7885	-3,1	8130
203	[73]		8032	-13,7	9478	3,6	8286	-10,2	8505	-7,4	8575	-6,5	9135
220	[77]		8240	1,7	8781	7,7	7724	-4,9	7991	-1,4	8184	1	8102
221	[77]		8945	6	8660	2,9	7940	-5,9	8295	-1,4	8460	0,6	8409
222	[77]		9598	8,3	8954	1,7	8170	-7,7	8475	-3,8	8683	-1,3	8800
242	[83]		8432	-0,6	8485	0,1	8145	-4,1	8248	-2,8	8328	-1,8	8480
243	[83]		9412	-0,1	8830	-6,6	8716	-8	8936	-5,4	8974	-4,9	9417
244	[83]		9932	4,3	9213	-3,1	9106	-4,4	9228	-3	9370	-1,4	9503
245	[84]		9207	3,4	7922	-12,2	8368	-6,3	8485	-4,8	8496	-4,6	8891

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
246	[84]		8798	6,4	7946	-3,6	7647	-7,7	7647	-7,7	8058	-2,2	8234
247	[84]		8151	-3,7	8700	2,8	8099	-4,4	8255	-2,4	8301	-1,8	8453
248	[84]		8787	3,9	8206	-2,9	8234	-2,6	8326	-1,4	8388	-0,7	8445
249	[84]		7196	-13,3	7892	-3,3	6871	-18,6	7293	-11,8	7313	-11,4	8150
250	[84]		9771	2,7	9027	-5,3	9028	-5,3	9235	-2,9	9265	-2,6	9505
251	[84]		9261	9,8	8997	7,1	8134	-2,7	8386	0,3	8694	3,9	8357
252	[84]		8701	-1,8	9115	2,8	8451	-4,8	8677	-2,1	8736	-1,4	8860
253	[84]		9224	4,1	9137	3,2	8717	-1,5	8895	0,6	8993	1,6	8846
262	[87]		7987	-1,4	7264	-11,5	7508	-7,9	7594	-6,6	7588	-6,7	8099
263	[87]		8243	2,3	7098	-13,5	7431	-8,4	7553	-6,6	7581	-6,2	8054
264	[87]		9423	6	8102	-9,3	7499	-18,1	7771	-13,9	8199	-8	8855
265	[87]		9245	5,2	8434	-3,9	8552	-2,5	8676	-1	8727	-0,4	8766
266	[87]		9037	3,6	8102	-7,5	7614	-14,4	7859	-10,8	8153	-6,8	8710
305	[95]		8695	2,9	7919	-6,6	7541	-12	7855	-7,5	8002	-5,5	8445
306	[95]		8469	9,3	7700	0,2	7135	-7,7	7496	-2,5	7700	0,2	7685
307	[95]		8326	6,5	6730	-15,6	6971	-11,6	7136	-9	7291	-6,7	7781
308	[95]		7912	-7,2	6358	-33,4	6891	-23,1	7137	-18,8	7074	-19,9	8482

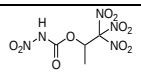
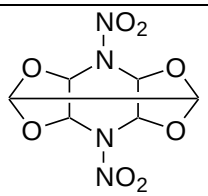
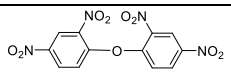
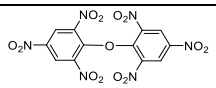
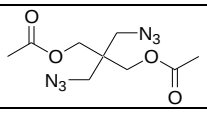
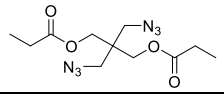
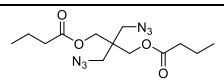
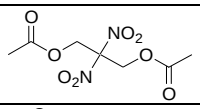
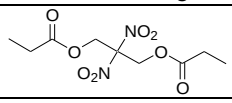
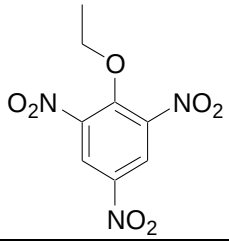
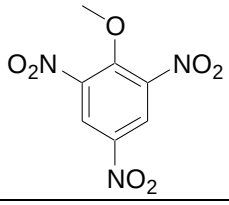
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
309	[95]		7612	-0,4	8220	7,1	6980	-9,5	7509	-1,7	7580	-0,8	7640
310	[95]		8415	-0,7	9053	6,4	7486	-13,2	8118	-4,4	8268	-2,5	8477
311	[95]		8622	3,5	7645	-8,9	7451	-11,7	7785	-6,9	7876	-5,7	8323
312	[95]		7687	-1,1	7951	2,2	7140	-8,9	7590	-2,4	7592	-2,4	7774
313	[95]		7853	-7,7	7693	-9,9	7180	-17,8	7645	-10,6	7593	-11,4	8458
314	[95]		10336	2,1	8875	-14	9274	-9,1	9424	-7,3	9477	-6,7	10114
335	[96]		9194	3,9	8753	-1	8838	0	9037	2,2	8956	1,3	8838
370	[98]		8644	-2,4	8732	-1,4	8858	0	8880	0,3	8778	-0,9	8855
371	[98]		8172	-5,6	8237	-4,8	7815	-10,4	7988	-8	8053	-7,2	8630
372	[98]		7614	-14,6	8361	-4,4	8584	-1,6	8651	-0,9	8302	-5,1	8725
373	[98]		7946	-11,7	8518	-4,2	8732	-1,7	8781	-1,1	8494	-4,5	8877
374	[98]		7511	-17,4	8622	-2,3	7910	-11,5	8153	-8,2	8049	-9,6	8821
375	[98]		7929	-15,3	9166	0,3	8990	-1,7	9162	0,2	8812	-3,7	9142
376	[98]		8134	-0,1	7855	-3,6	8042	-1,2	8047	-1,2	8020	-1,5	8140
394	[99]		7194	4,1	6118	-12,8	6644	-3,9	6903	0	6715	-2,8	6900

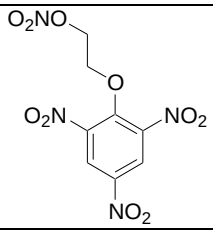
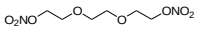
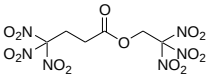
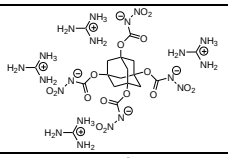
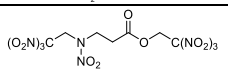
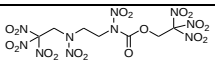
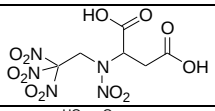
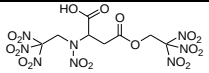
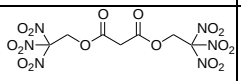
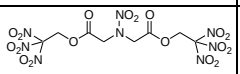
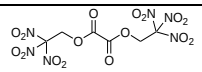
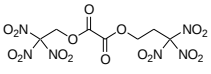
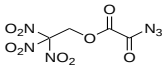
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
395	[99]		7264	-10	7169	-11,5	7407	-7,9	7685	-4	7381	-8,3	7991
432	[101]		6986	2	5873	-16,6	6656	-2,9	7161	4,4	6669	-2,7	6846
433	[101]		8837	-3,6	9321	1,8	8668	-5,6	8907	-2,8	8933	-2,5	9152
434	[101]		8849	-2,7	9135	0,5	8962	-1,4	8980	-1,2	8982	-1,2	9087
435	[101]		10100	7,4	9560	2,1	9383	0,3	9455	1,1	9624	2,8	9355
436	[101]		8861	-0,4	9163	2,9	8274	-7,5	8549	-4,1	8712	-2,1	8897
437	[101]		7947	-13,8	9281	2,5	8716	-3,8	8949	-1,1	8723	-3,7	9045
438	[101]		6635	-19,7	8748	9,2	7260	-9,4	7740	-2,6	7596	-4,6	7942
439			6301	-34,2	8872	4,7	7723	-9,5	8109	-4,3	7751	-9,1	8455
440	[101]		6517	-25,2	9198	11,3	8000	-2	8300	1,7	8004	-1,9	8159
441			7905	-5,5	8466	1,5	7763	-7,4	8055	-3,6	8047	-3,7	8341
442	[101]		7945	-8,8	8604	-0,4	7934	-8,9	8233	-5	8179	-5,7	8642
443	[101]		7405	-13,1	8604	2,7	7640	-9,6	8006	-4,6	7914	-5,8	8373

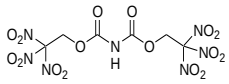
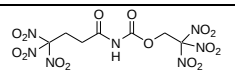
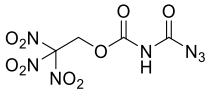
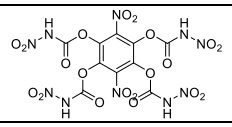
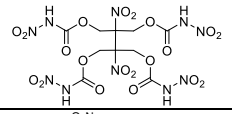
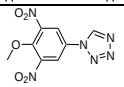
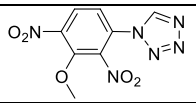
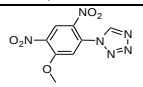
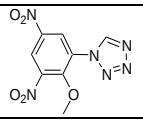
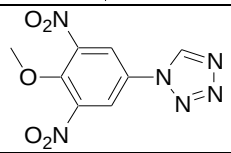
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
444	[101]		8748	0,4	8998	3,1	8371	-4,1	8610	-1,2	8682	-0,4	8716
445	[101]		8384	-8,1	9297	2,5	8677	-4,4	8892	-1,9	8812	-2,8	9060
446	[101]		8695	-3	9383	4,6	8747	-2,4	8913	-0,5	8934	-0,2	8954
447	[101]		7419	-7,7	8964	10,9	7576	-5,5	7951	-0,5	7978	-0,2	7990
448	[101]		7202	-13,7	9033	9,4	7771	-5,4	8120	-0,8	8032	-1,9	8187
449	[101]		7319	-12,8	9196	10,2	7932	-4,1	8238	-0,2	8171	-1	8256
450	[101]		8008	-2,4	8778	6,6	7773	-5,5	8084	-1,4	8161	-0,4	8197
451	[101]		8157	-3,3	8853	4,8	7962	-5,8	8261	-2	8308	-1,4	8424
452	[101]		7795	-4,6	8853	7,9	7697	-5,9	8048	-1,3	8098	-0,7	8151
453	[102]		8765	-7,9	8566	-10,4	8790	-7,6	9006	-5	8782	-7,7	9457
466	[105]		8980	3,5	8546	-1,4	8449	-2,6	8493	-2,1	8617	-0,6	8669
467	[105]		8979	10,3	7994	-0,8	7746	-4	7860	-2,5	8145	1,1	8057
470	[105]		8017	-3,8	8304	-0,2	7484	-11,2	7971	-4,4	7944	-4,8	8323

2.2.15 The detonation velocities of ethers and esters

Table 45. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the ethers and esters.

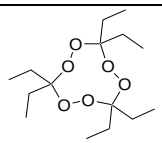
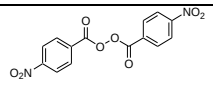
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
2	[22]		7777	1,2	8582	10,5	7953	3,4	8006	4,1	7912	2,9	7680
3	[23] [24]		8822	2,3	6896	-24,9	8139	-5,8	7832	-10	8092	-6,5	8615
24	[34]		7290	9,7	6277	-4,9	6827	3,6	6623	0,6	6754	2,5	6582
25	[34]		8201	6,9	7449	-2,5	7794	2,1	7617	-0,2	7765	1,7	7634
26	[35]		5507	1,6	4203	-29	4912	-10,3	5434	0,3	4828	-12,3	5420
27	[35]		5088	-4	3458	-53	4553	-16,2	5124	-3,3	4556	-16,2	5292
28	[35]		4648	-8,6	2842	-77,6	4185	-20,6	4852	-4	4130	-22,2	5048
29	[35]		6297	9,8	5396	-5,3	5796	1,9	5916	3,9	5851	2,9	5683
30	[35]		5652	9,6	4641	-10,1	5224	2,2	5435	6	5238	2,4	5111
39	[26]		6845	4,4	6303	-3,8	6741	2,9	6598	0,8	6622	1,2	6545
40	[38]		7502	6,2	6800	-3,5	7263	3,1	7059	0,3	7156	1,7	7035

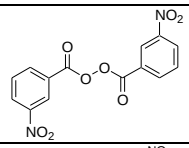
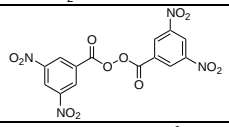
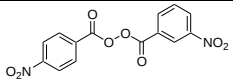
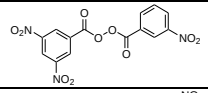
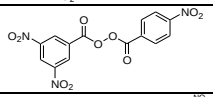
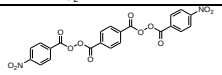
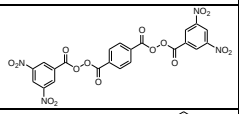
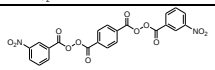
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
41	[38]		7742	3,5	7290	-2,5	7684	2,8	7476	0,1	7548	1	7470
44	[38]		6473	-0,4	5848	-11,1	6468	-0,5	6354	-2,3	6286	-3,4	6498
45	[38]		8852	2,7	8537	-0,9	8658	0,5	8534	-1	8645	0,3	8616
76	[49]		3538	-92,5	6836	0,4	6308	-7,9	6589	-3,3	5900	-15,4	6809
79	[50]		8775	5,4	8653	4,1	8503	2,4	8429	1,5	8590	3,4	8300
81	[50]		9754	6,9	9008	-0,8	9212	1,4	9102	0,2	9269	2	9083
82	[50]		8130	7,6	7739	2,9	7671	2	7652	1,8	7798	3,6	7515
83	[50]		8475	8	8354	6,6	8014	2,7	8010	2,6	8213	5	7801
94	[53]		8790	6	8197	-0,8	8361	1,2	8262	0	8402	1,7	8263
95	[53]		8987	6,4	8354	-0,7	8506	1,1	8401	-0,2	8562	1,7	8415
113	[57]		9317	11,2	8017	-3,2	8813	6,1	8724	5,1	8718	5,1	8275
114	[57]		8674	7	8197	1,5	8305	2,8	8220	1,8	8349	3,3	8071
115	[57]		8641	4,8	8574	4,1	8353	1,6	8496	3,2	8516	3,4	8223

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
116	[57]		9413	7,8	8251	-5,1	8967	3,3	8867	2,2	8874	2,2	8675
117	[57]		8003	3,7	8303	7,2	7889	2,4	7905	2,6	7932	2,9	7703
118	[57]		7515	4	8697	17,1	7385	2,3	7727	6,7	7831	7,9	7213
129	[60]		7701	0	8023	4	7629	-1	7806	1,3	7790	1,1	7702
130	[60]		8225	-0,9	7846	-5,8	8293	-0,1	8190	-1,3	8138	-2	8298
287	[92]		7651	5,3	6688	-8,4	7097	-2,1	7075	-2,4	7128	-1,7	7247
288	[92]		7384	1,6	6688	-8,7	6849	-6,1	6900	-5,3	6955	-4,5	7268
289	[92]		7484	0,7	6688	-11,1	6977	-6,5	6995	-6,2	7036	-5,6	7432
290	[92]		7517	1	6688	-11,3	7006	-6,2	7015	-6,1	7056	-5,5	7442
385	[99]		7651	4,9	6859	-6,1	7097	-2,5	7075	-2,8	7170	-1,5	7274

2.2.16 The detonation velocities of peroxides

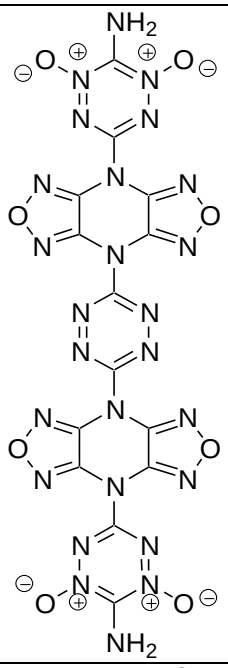
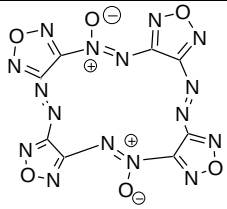
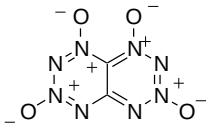
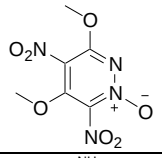
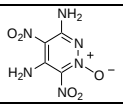
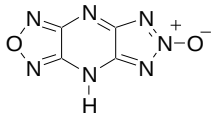
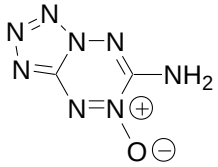
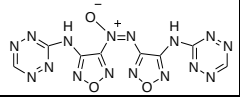
Table 46. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the peroxides.

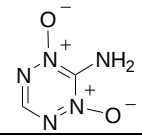
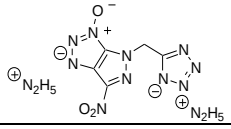
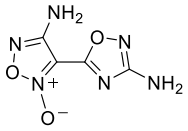
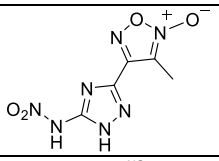
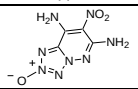
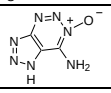
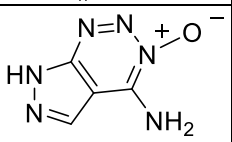
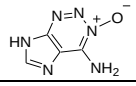
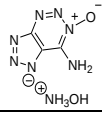
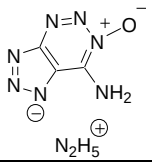
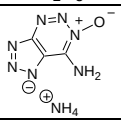
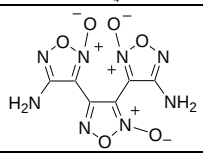
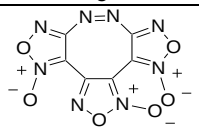
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
49	[42]		4600	-37,4	-		4462	-41,7	4599	-37,5	3594	-75,9	6322
67	[48]		6354	3,5	4197	-46	5752	-6,6	5577	-9,9	5470	-12	6129

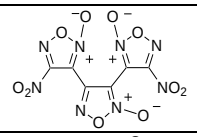
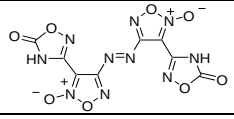
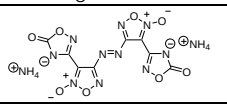
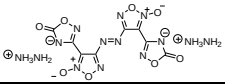
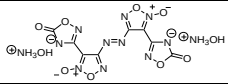
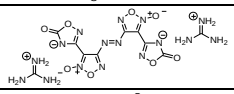
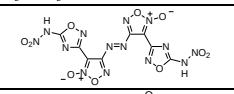
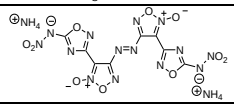
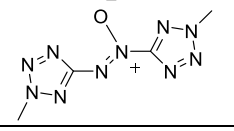
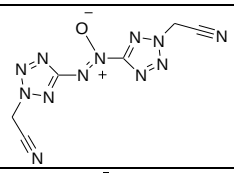
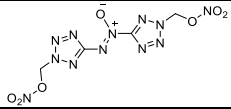
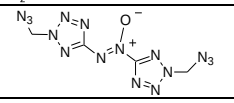
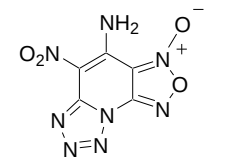
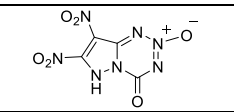
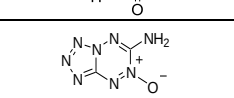
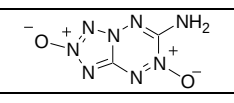
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
68	[48]		6354	3,5	4197	-46,1	5757	-6,5	5582	-9,8	5471	-12	6130
69	[48]		7183	1,3	5893	-20,3	6853	-3,4	6662	-6,4	6648	-6,6	7087
70	[48]		6517	1,9	4197	-52,4	5909	-8,2	5657	-13	5570	-14,8	6395
71	[48]		6863	1	5158	-31,8	6451	-5,3	6219	-9,3	6173	-10,1	6796
72	[48]		6835	1,1	5158	-31	6425	-5,2	6204	-8,9	6156	-9,8	6757
73	[48]		5310	-0,1	3642	-45,9	5179	-2,6	5189	-2,4	4830	-10	5315
74	[48]		5895	-1,9	4929	-21,9	5897	-1,9	5882	-2,1	5651	-6,3	6007
75	[48]		5288	0,1	3642	-45,1	5980	11,6	5910	10,6	5205	-1,5	5284

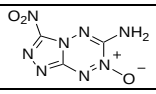
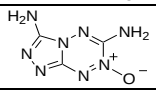
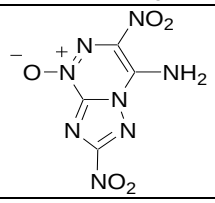
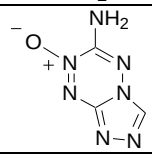
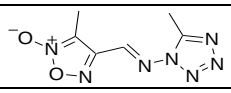
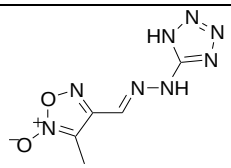
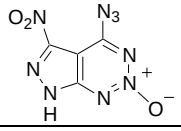
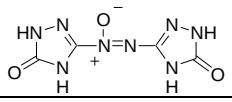
2.2.17 The detonation velocities of nitroxides

Table 47. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the nitroxides.

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
42	[38]		10236	15	8854	1,7	8184	-6,3	8559	-1,6	8958	2,9	8700
43	[38] [39]		9368	0	9283	-0,9	8217	-14	8696	-7,7	8891	-5,4	9368
57	[46]		9865	5,9	10734	13,5	8751	-6,1	9379	1	9682	4,1	9287
127	[59]		7362	1,8	7213	-0,2	7314	1,2	7240	0,2	7282	0,8	7227
128	[59]		8001	-6,1	8725	2,7	8266	-2,7	8335	-1,8	8332	-1,8	8486
137	[63]		8467	-0,8	8748	2,5	7913	-7,8	8314	-2,6	8360	-2,1	8532
149	[40]		8885	-5	9359	0,4	8550	-9,1	9206	-1,3	9000	-3,6	9326
163	[67]		8471	0,8	8644	2,8	7752	-8,4	8223	-2,2	8272	-1,6	8401

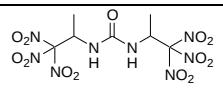
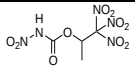
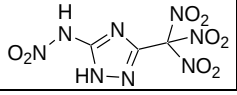
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
164	[67]		8050	-7,3	8799	1,8	8145	-6,1	8466	-2,1	8365	-3,3	8640
178	[69]		7755	-13,2	8342	-5,2	7914	-10,9	8269	-6,2	8070	-8,8	8778
192	[71]		8004	-2,4	8085	-1,3	7576	-8,1	7787	-5,2	7863	-4,2	8193
201	[73]		7810	-5,5	8098	-1,7	7873	-4,6	7986	-3,1	7942	-3,7	8236
224	[78]		8464	-6,6	8669	-4,1	8281	-8,9	8530	-5,8	8486	-6,3	9021
225	[79]		8151	-7,9	7641	-15,1	7868	-11,7	8330	-5,5	7998	-9,9	8792
226	[79]		7744	-6,8	5901	-40,2	7155	-15,6	7467	-10,8	7067	-17	8271
227	[79]		7650	-4,7	5901	-35,7	6943	-15,3	7309	-9,6	6951	-15,2	8008
228	[79]		8141	-5,7	8155	-5,5	7686	-12	8136	-5,8	8030	-7,2	8607
229	[79]		7726	-21,5	6237	-50,5	7594	-23,6	8128	-15,5	7421	-26,5	9385
230	[79]		8182	-6,9	6295	-38,9	7622	-14,7	8093	-8	7548	-15,8	8744
242	[83]		8432	-0,6	8485	0,1	8145	-4,1	8248	-2,8	8328	-1,8	8480
243	[83]		9412	-0,1	8830	-6,6	8716	-8	8936	-5,4	8974	-4,9	9417

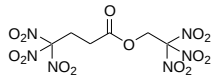
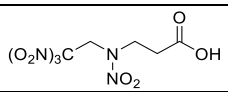
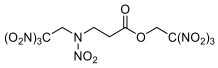
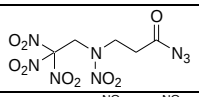
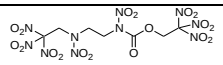
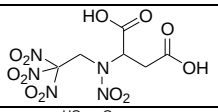
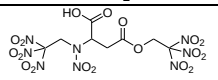
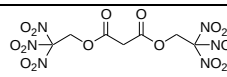
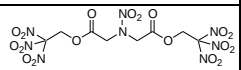
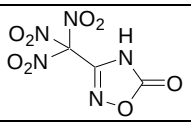
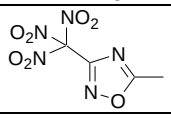
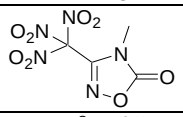
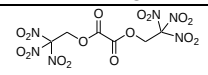
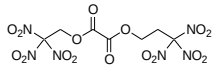
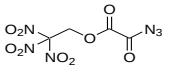
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
244	[83]		9932	4,3	9213	-3,1	9106	-4,4	9228	-3	9370	-1,4	9503
245	[84]		9207	3,4	7922	-12,2	8368	-6,3	8485	-4,8	8496	-4,6	8891
246	[84]		8798	6,4	7946	-3,6	7647	-7,7	7647	-7,7	8058	-2,2	8234
247	[84]		8151	-3,7	8700	2,8	8099	-4,4	8255	-2,4	8301	-1,8	8453
248	[84]		8787	3,9	8206	-2,9	8234	-2,6	8326	-1,4	8388	-0,7	8445
249	[84]		7196	-13,3	7892	-3,3	6871	-18,6	7293	-11,8	7313	-11,4	8150
250	[84]		9771	2,7	9027	-5,3	9028	-5,3	9235	-2,9	9265	-2,6	9505
251	[84]		9261	9,8	8997	7,1	8134	-2,7	8386	0,3	8694	3,9	8357
297	[93]		7743	3,6	6736	-10,8	6729	-10,9	7423	-0,6	7158	-4,3	7465
298	[93]		7566	4	7446	2,5	6635	-9,4	7318	0,8	7241	-0,3	7262
299	[93]		8866	9	10007	19,4	8035	-0,4	8481	4,9	8847	8,8	8066
300	[93]		8162	11,4	9067	20,3	6631	-9	7745	6,7	7901	8,5	7228
335	[96]		9194	3,9	8753	-1	8838	0	9037	2,2	8956	1,3	8838
345	[96]		9533	10,7	9137	6,8	8855	3,8	9035	5,8	9140	6,8	8515
348	[96]		8885	-5	9359	0,4	8551	-9,1	9207	-1,3	9000	-3,6	9326
349	[96]		9219	-4,1	10037	4,4	8979	-6,9	9517	-0,9	9438	-1,7	9600

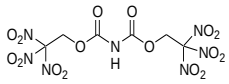
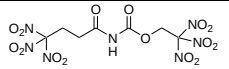
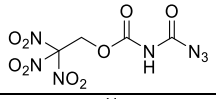
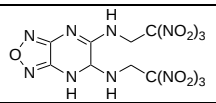
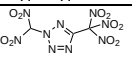
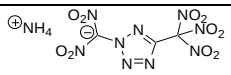
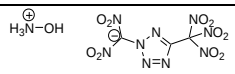
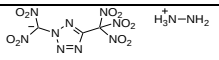
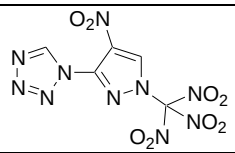
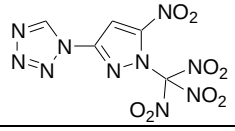
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
353	[96]		8865	-5,9	9622	2,5	8905	-5,4	9282	-1,1	9168	-2,4	9384
354	[96]		8221	-9,6	7457	-20,8	7761	-16,1	8298	-8,6	7934	-13,5	9008
362	[96]		9029	0,7	9389	4,5	8594	-4,4	8850	-1,4	8966	0	8970
369	[97]		8007	-2,6	7641	-7,5	7487	-9,7	8012	-2,5	7787	-5,5	8215
394	[99]		7194	4,1	6118	-12,8	6644	-3,9	6903	0	6715	-2,8	6900
395	[99]		7264	-10	7169	-11,5	7407	-7,9	7685	-4	7381	-8,3	7991
459	[104]		8738	-4,3	9441	3,5	8378	-8,7	8823	-3,3	8845	-3	9111
464	[24]		7991	-2,7	7983	-2,8	7357	-11,5	7908	-3,7	7810	-5	8204

2.2.18 The detonation velocities of molecules with a -C(NO$_2$)$_3$ group present

Table 48. Table summarizing the structural formulae, empirical formulae and the detonation velocities of molecules with an -C(NO$_2$)$_3$ group present.

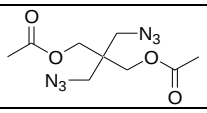
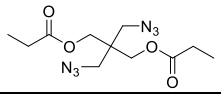
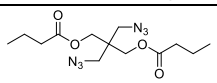
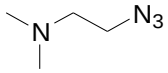
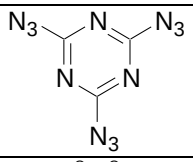
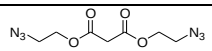
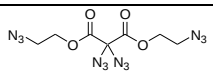
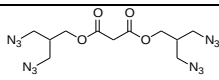
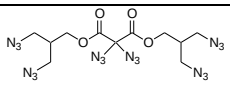
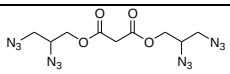
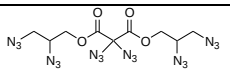
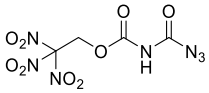
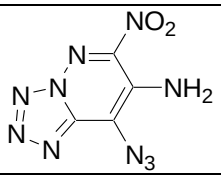
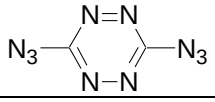
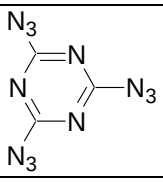
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
1	[22]		8263	-2,5	8400	-0,8	8547	0,9	8388	-1	8399	-0,8	8469
2	[22]		7777	1,2	8582	10,5	7953	3,4	8006	4,1	7912	2,9	7680
9	[28]		8920	-3,7	9750	5,1	9397	1,6	9580	3,4	9409	1,7	9250

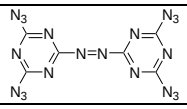
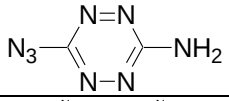
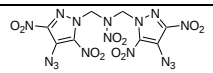
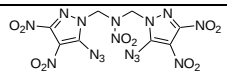
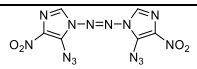
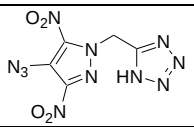
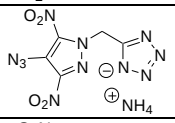
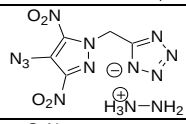
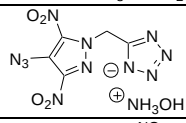
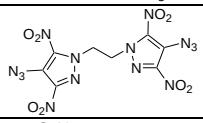
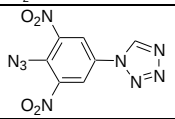
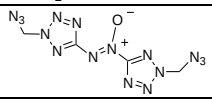
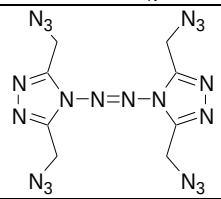
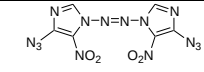
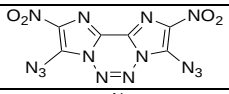
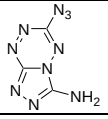
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
45	[38]		8852	2,7	8537	-0,9	8658	0,5	8534	-1	8645	0,3	8616
78	[50]		8337	4,2	8093	1,3	8150	2	8041	0,7	8155	2,1	7987
79	[50]		8775	5,4	8653	4,1	8503	2,4	8429	1,5	8590	3,4	8300
80	[50]		8349	0,8	8707	4,8	8288	0	8363	0,9	8427	1,7	8285
81	[50]		9754	6,9	9008	-0,8	9212	1,4	9102	0,2	9269	2	9083
82	[50]		8130	7,6	7739	2,9	7671	2	7652	1,8	7798	3,6	7515
83	[50]		8475	8	8354	6,6	8014	2,7	8010	2,6	8213	5	7801
94	[53]		8790	6	8197	-0,8	8361	1,2	8262	0	8402	1,7	8263
95	[53]		8987	6,4	8354	-0,7	8506	1,1	8401	-0,2	8562	1,7	8415
96	[54]		9158	3,9	8870	0,8	9619	8,5	9658	8,9	9326	5,7	8798
97	[54]		8696	-1	8980	2,2	8686	1,1	8655	-1,4	8754	-0,3	8779
98	[54]		8655	-1,7	8404	-4,8	8868	0,7	8835	0,4	8690	-1,3	8804
113	[57]		9317	11,2	8017	-3,2	8813	6,1	8724	5,1	8718	5,1	8275
114	[57]		8674	7	8197	1,5	8305	2,8	8220	1,8	8349	3,3	8071
115	[57]		8641	4,8	8574	4,1	8353	1,6	8496	3,2	8516	3,4	8223

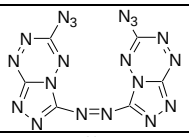
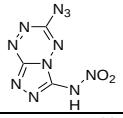
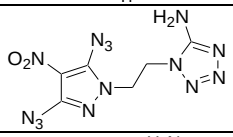
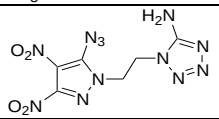
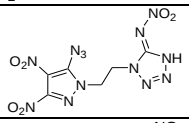
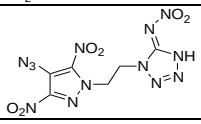
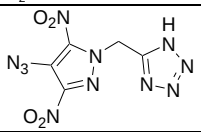
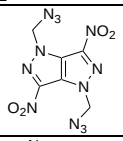
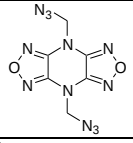
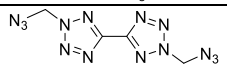
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
116	[57]		9413	7,8	8251	-5,1	8967	3,3	8867	2,2	8874	2,2	8675
117	[57]		8003	3,7	8303	7,2	7889	2,4	7905	2,6	7932	2,9	7703
118	[57]		7515	4	8697	17,1	7385	2,3	7727	6,7	7831	7,9	7213
138	[63]		8005	-5	8907	5,6	8430	0,2	8483	0,9	8456	0,6	8409
254	[85]		9651	11,8	9252	8	9432	9,8	9684	12,1	9505	10,5	8511
255	[85]		9317	7,5	9678	11	9109	5,4	9332	7,7	9359	7,9	8617
256	[85]		9683	6,5	9450	4,2	9729	6,9	9873	8,3	9762	7,3	9054
257	[85]		8926	0,1	9881	9,7	8889	0,3	9166	2,7	9216	3,2	8920
379	[99]		9124	2,9	9554	7,3	8641	2,5	8898	0,4	9054	2,1	8860
380	[99]		9005	2,5	9554	8,1	8566	2,5	8834	0,6	8990	2,3	8780

2.2.19 The detonation velocities of azides

Table 49. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the azides.

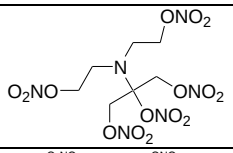
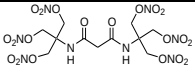
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
26	[35]		5507	1,6	4203	-29	4912	-10,3	5434	0,3	4828	-12,3	5420
27	[35]		5088	-4	3458	-53	4553	-16,2	5124	-3,3	4556	-16,2	5292
28	[35]		4648	-8,6	2842	-77,6	4185	-20,6	4852	-4	4130	-22,2	5048
46	[24]		4940	-16	-	-	4252	-34,8	5168	-10,9	4787	-19,7	5730
47	[24] [40]		8221	4,3	-	-	7403	-6,3	8458	7	8027	2	7866
84	[51]		6329	2,2	5120	-20,9	5648	-9,6	6039	-2,5	5784	-7,1	6192
85	[51]		6999	0,4	7209	3,3	6660	-4,7	7135	2,3	7001	0,4	6974
86	[51]		5977	-10	5598	-17,5	5880	-11,8	6278	-4,7	5933	-10,8	6576
87	[51]		6681	-7	6978	-2,4	6695	-6,8	7122	-0,4	6869	-4	7147
88	[51]		6052	-3,3	6340	1,4	5809	-7,6	6350	1,5	6138	-1,9	6252
89	[51]		7004	-1,2	7669	7,6	6816	-4	7346	3,5	7209	1,7	7087
118	[57]		7515	4	8697	17,1	7385	2,3	7727	6,7	7831	7,9	7213
131	[61]		8540	-2,4	9212	5,1	8079	-8,3	8608	-1,6	8610	-1,6	8746
145	[40]		7887	-5,3	-	-	8023	-3,5	8987	7,6	8299	-0,1	8306
146	[40]		8257	-0,6	-	-	7699	-7,9	8680	4,3	8212	-1,2	8308

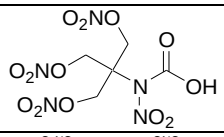
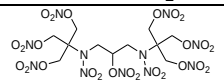
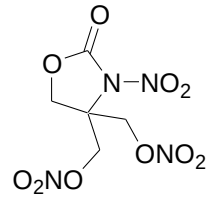
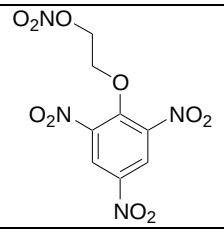
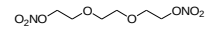
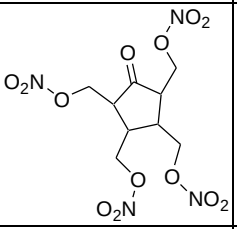
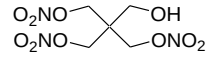
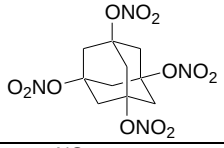
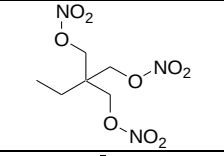
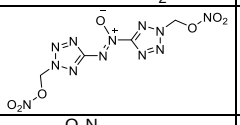
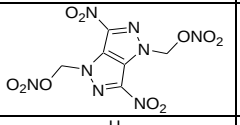
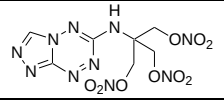
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
147	[40]		8282	-0,3	-	-	7691	-8	8582	3,2	8185	-1,5	8306
148	[40]		7728	-9,3	-	-	7664	-10,2	8502	0,6	7965	-6,1	8449
154	[65]		9265	5,9	9339	6,7	8619	-1,1	8880	1,8	9026	3,4	8717
155	[65]		9265	5,8	9339	6,6	8626	-1,1	8886	1,8	9029	3,4	8724
172	[68]		8687	-0,2	9365	7,1	8056	-8	8557	-1,7	8666	-0,4	8702
179	[69]		8573	-1,6	9200	5,4	8194	-6,3	8579	-1,5	8636	-0,8	8707
180	[69]		8223	0,7	9028	9,5	7740	-5,5	8150	-0,2	8285	1,4	8167
181	[69]		8077	-7	9081	4,9	8137	-6,2	8503	-1,6	8450	-2,2	8640
182	[69]		8526	-2,6	9210	5	8354	-4,7	8652	-1,1	8686	-0,7	8747
188	[70]		8661	1,2	8991	4,8	8170	-4,7	8444	-1,4	8566	0,1	8558
296	[92]		7937	2,6	8027	3,7	7395	-4,6	7677	-0,7	7759	0,3	7734
300	[93]		8162	11,4	9067	20,3	6631	-9	7745	6,7	7901	8,5	7228
317	[95]		7361	-4,5	-	-	6962	-10,5	7657	-0,4	7327	-5	7690
326	[95]		8687	-0,2	9365	7,1	8175	-6,4	8663	-0,5	8722	0,2	8702
329	[96]		9564	3,2	9561	3,2	8499	-8,9	9014	-2,7	9160	-1	9256
355	[96]		8237	-4,2	-	-	7732	-11	8524	-0,7	8164	-5,1	8581

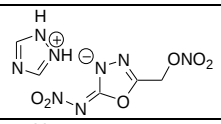
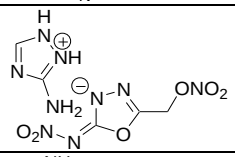
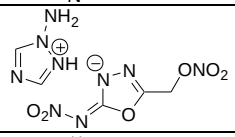
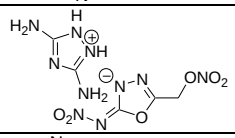
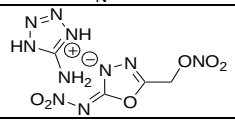
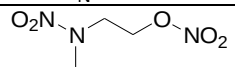
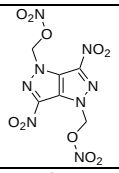
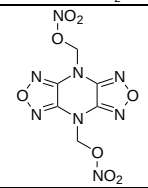
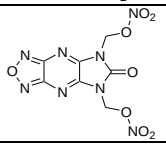
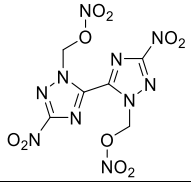
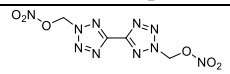
		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
356	[96]		9413	7,7	-	-	8028	-8,2	8889	2,2	8777	1	8690
357	[96]		8921	-3,5	10187	9,3	8591	-7,5	9255	0,2	9238	0	9236
413	[99]		7695	-2,9	8334	5	7286	-8,7	7842	-1	7789	-1,6	7917
417	[99]		8057	-1,6	8660	5,5	7657	-6,9	8024	-2	8100	-1,1	8186
418	[99]		8309	-5,3	9209	5	8336	-4,9	8634	-1,3	8622	-1,5	8748
419	[99]		8204	-5,5	9209	6	8270	-4,7	8579	-0,9	8566	-1,1	8659
422	[99]		8573	-1,6	9200	5,4	8194	-6,3	8579	-1,5	8636	-0,8	8707
469	[105]		8324	0,4	8868	6,5	7816	-6,1	8209	-1	8304	0,1	8292
470	[105]		8017	-3,8	8304	-0,2	7484	-11,2	7971	-4,4	7944	-4,8	8323
478	[107]		8073	-1	-	-	7444	-9,6	8238	1	7918	-3	8155

2.2.20 The detonation velocities of nitrat ester

Table 50. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the nitrate esters.

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
31	[36]		8368	3,7	8008	-0,6	8393	4	8158	1,2	8232	2,1	8059
32	[36]		7654	-3,1	7548	-4,5	7911	0,3	7726	-2,1	7710	-2,3	7891

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
33	[36]		8307	3,1	8209	2	8495	5,3	8356	3,7	8434	4,6	8048
34	[36]		9319	8,3	8384	-2	8869	3,6	8622	0,8	8798	2,8	8550
35	[36]		8727	5,3	7679	-7,6	8165	-1,2	8008	-3,2	8145	-1,5	8266
41	[38]		7742	3,5	7290	-2,5	7684	2,8	7476	0,1	7548	1	7470
44	[38]		6473	-0,4	5848	-11,1	6468	-0,5	6354	-2,3	6286	-3,4	6498
56	[38]		7219	-4,1	6786	-10,8	7308	-2,9	7108	-5,8	7105	-5,8	7518
60	[38]		7550	-3	7540	-3,1	7683	-1,2	7484	-3,9	7564	-2,8	7777
77	[49]		7348	0,9	6556	-11,1	7435	2,1	7121	-2,3	7115	-2,3	7282
119	[26]		7141	0,6	6815	-4,1	7298	2,8	7074	-0,3	7082	-0,2	7097
299	[93]		8866	9	10007	19,4	8035	-0,4	8481	4,9	8847	8,8	8066
341	[96]		9116	4,8	8788	1,3	8561	-1,3	8593	-0,9	8764	1	8674
350	[96]		8527	-8,9	8366	-11	8261	-12,5	8285	-12,1	8360	-11,1	9290

		Compound	VoD [m/s] Keshavarz	Deviation Keshavarz [%]	VoD [m/s] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	VoD [m/s] Kamlet and Jacobs	Deviation Kamlet and Jacobs [%]	VoD [m/s] Stine	Deviation Stine [%]	VoD [m/s] Rose Hybrid	Deviation Rose Hybrid [%]	VoD [m/s] from reference
371	[98]		8172	-5,6	8237	-4,8	7815	-10,4	7988	-8	8053	-7,2	8630
372	[98]		7614	-14,6	8361	-4,4	8584	-1,6	8651	-0,9	8302	-5,1	8725
373	[98]		7946	-11,7	8518	-4,2	8732	-1,7	8781	-1,1	8494	-4,5	8877
374	[98]		7511	-17,4	8622	-2,3	7910	-11,5	8153	-8,2	8049	-9,6	8821
375	[98]		7929	-15,3	9166	0,3	8990	-1,7	9162	0,2	8812	-3,7	9142
460	[26]		7414	-8,6	7345	-9,6	7676	-4,9	7536	-6,8	7493	-7,4	8050
465	[105]		9116	4,8	8788	1,3	8561	-1,3	8593	-0,9	8764	1	8674
466	[105]		8980	3,5	8546	-1,4	8449	-2,6	8493	-2,1	8617	-0,6	8669
467	[105]		8979	10,3	7994	-0,8	7746	-4	7860	-2,5	8145	1,1	8057
468	[105]		9281	6,9	9065	4,7	8460	-2,1	8604	-0,4	8852	2,4	8639
479	[107]		8693	3,6	9054	7,5	8152	-2,8	8496	1,4	8599	2,6	8377

2.2.21 Summary of the detonation velocities

Table 51. Table summarizing the Mean absoulute percent deviation (MAPE); R^2, and Pearson value of all in RoseBoom Implemented values to predict the detonation velocity.

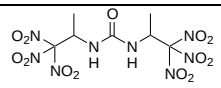
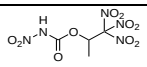
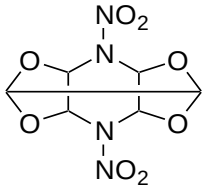
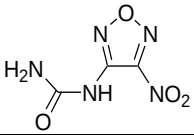
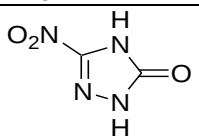
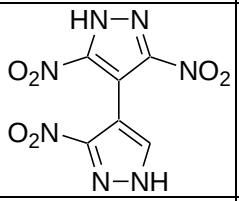
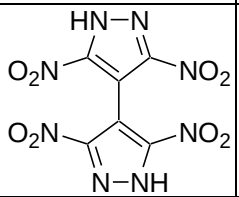
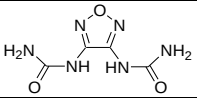
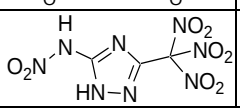
Compound class		MAPE Keshavarz	Pearson Keshavarz	R^2 Keshavarz	MAPE Rothstein and Petersen	Pearson Rothstein and Petersen	R^2 Rothstein and Petersen	MAPE Kamlet and Jacobs	Pearson Kamlet and Jacobs	R^2 Kamlet and Jacobs	MAPE Stine	Pearson Stine	R^2 Stine	MAPE RoseHybrid	Pearson RoseHybrid	R^2 RoseHybrid
All Molecules	482	6.3	0.75	0.56	6.7	0.81	0.66	7.5	0.85	0.72	4.2	0.91	0.83	5	0.87	0.76
Neutral molecules	332	4.9	0.84	0.71	9.8	0.87	0.76	7.7	0.85	0.72	4.2	0.91	0.83	4.6	0.91	0.83
ionic	113	11	0.6	0.36	6	0.64	0.41	8	0.82	0.67	4.2	0.86	0.74	5.9	0.72	0.52
Zwitterionic	3	1.9	0.98	0.96	2.9	0.96	0.92	7.5	0.998	0.996004	3.4	0.9999	1	7.5	0.999	1.00
aromatic	418	6.1	0.72	0.52	6	0.94	0.88	7.6	0.85	0.72	4.1	0.91	0.83	4.6	0.87	0.76
Non aromatic	67	8.3	0.8	0.64	9.4	0.85	0.72	5.8	0.92	0.85	4.4	0.91	0.83	0.9	6.6	43.56
Cyclic nitraminnes	15	3.8	0.64	0.41	7	0.54	0.29	3.6	0.94	0.88	3.6	0.91	0.83	3.5	0.84	0.71
Acyclic nitaminnes	113	7.3	0.5	0.25	4.3	0.75	0.56	6.1	0.66	0.44	3	0.8	0.64	3.5	0.78	0.61
Molecules with Nitro groups	377	5.9	0.74	0.55	6.1	0.87	0.76	5.8	0.86	0.74	3.6	0.91	0.83	3.7	0.91	0.83
Molecules without Nitro groups	104	7.7	0.76	0.58	15.4	0.61	0.37	13.4	0.9	0.81	6.2	0.89	0.79	9.2	0.82	0.67
Diazoles	137	4	0.68	0.46	4.5	0.78	0.61	5.8	0.87	0.76	3.2	0.91	0.83	2.9	0.88	0.77
Triazoles	115	8.9	0.6	0.36	6.6	0.66	0.44	9.6	0.8	0.64	4.7	0.87	0.76	5.9	0.81	0.66
Tetrazoles	133	5.8	0.73	0.53	6.5	0.79	0.62	9.6	0.85	0.72	4.6	0.9	0.81	5.5	0.84	0.71
Oxazole	96	6.1	0.67	0.45	5.8	0.66	0.44	6.7	0.85	0.72	3.7	0.87	0.76	3.7	0.87	0.76
Ethers and Esters	34	7.5	0.88	0.77	10.3	0.9	0.81	4	0.97	0.94	2.8	0.97	0.94	4.6	0.97	0.94
Peroxides	10	4.8	0.72	0.52	37.8	0.89	0.79	9.3	0.52	0.27	10.99	0.49	0.24	15.9	0.54	0.29
Nitroxides	45	5.86	0.65	0.42	9	0.51	0.26	8.2	0.83	0.69	4.1	0.86	0.74	5.6	0.74	0.55
Molecules with -$C(NO_2)_3$ Groups	28	4.9	0.75	0.56	4.97	0.65	0.42	2.7	0.88	0.77	2.9	0.58	0.34	3.3	0.88	0.77

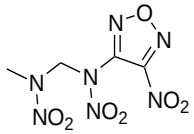
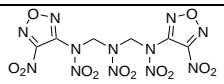
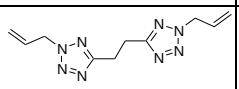
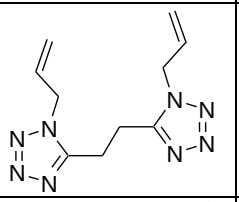
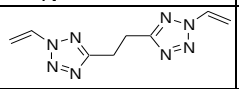
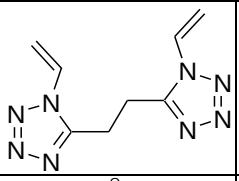
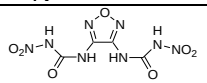
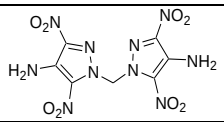
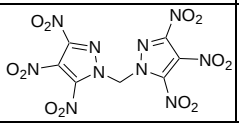
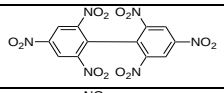
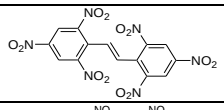
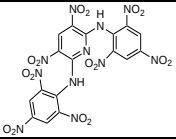
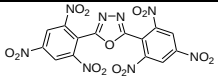
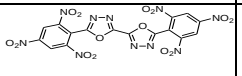
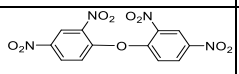
Azides	41	4	0.95	0.9	11.68	0.94	0.88	8.2	0.97	0.94	2.5	0.98	0.96	4	0.98	0.96
Nitrate esters	25	6.4	0.61	0.37	5.3	0.8	0.64	3.4	0.84	0.71	3	0.89	0.79	3.7	0.84	0.71

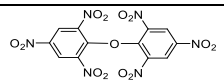
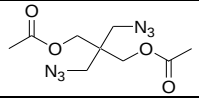
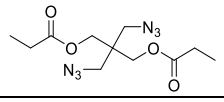
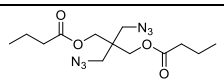
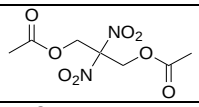
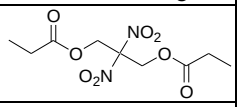
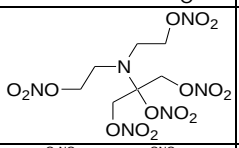
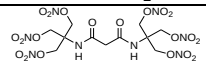
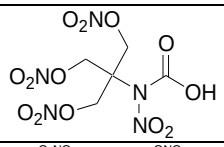
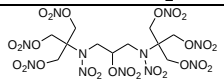
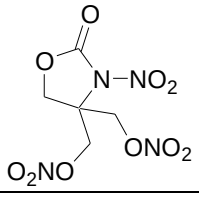
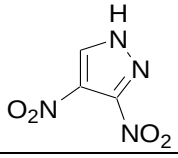
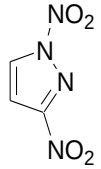
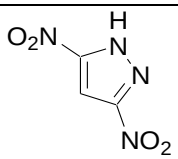
2.3 Comparison of the detonation pressure from RoseBoom2.1 to the EXPLO5 values

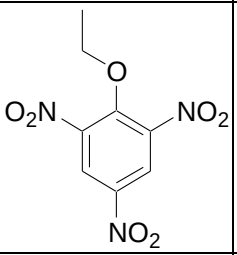
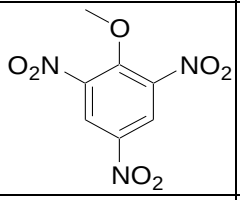
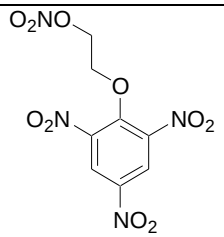
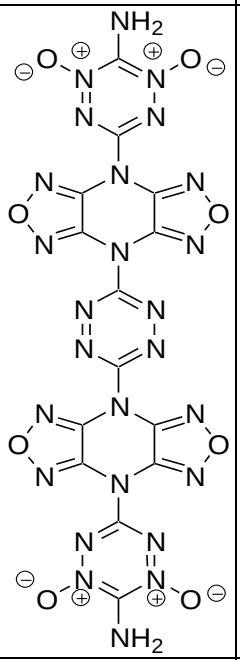
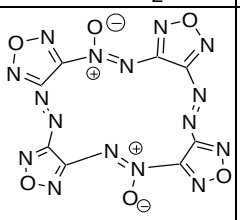
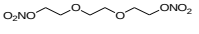
2.3.1 The detonation pressures of all compounds

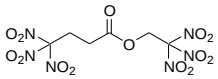
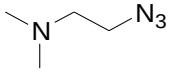
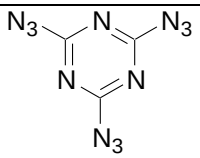
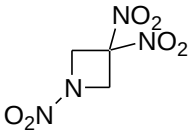
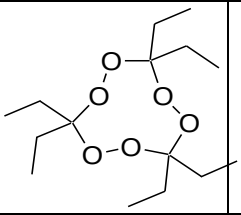
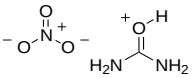
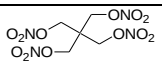
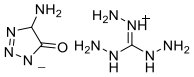
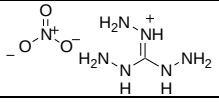
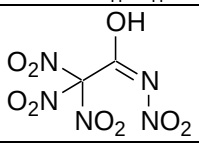
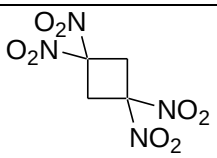
Table 52. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the all compounds.

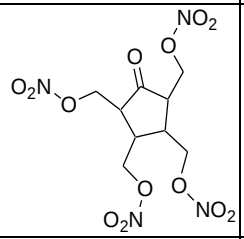
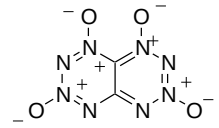
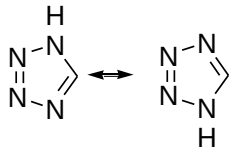
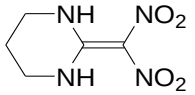
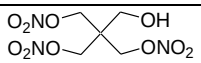
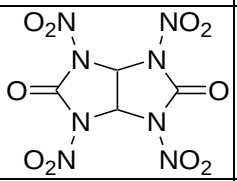
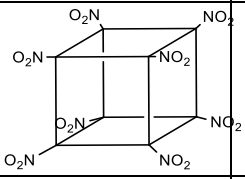
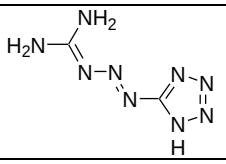
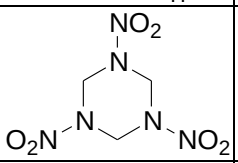
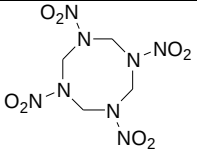
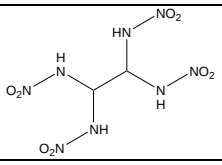
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
1	[22]		328	2.1	328	2.1	326	1.5	327	1.8	321
2	[22]		259	12	345	33.9	259	12	259	12	228
3	[23] [24]		394	12.9	187	-83.4	311	-10.3	319	-7.5	343
4	[25]		263	10.3	339	30.4	255	7.5	286	17.5	236
5	[23] [26]		351	13.1	361	15.5	300	-1.7	337	9.5	305
6	[27]		333	14.1	324	11.7	290	1.4	313	8.6	286
7	[27]		336	7.4	375	17.1	303	-2.6	338	8	311
8	[25]		311	21.2	186	-31.7	246	0.4	248	1.2	245
9	[28]		384	3.9	454	18.7	406	9.1	414	10.9	369

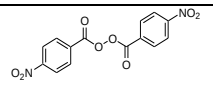
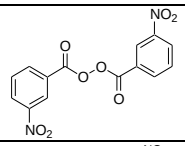
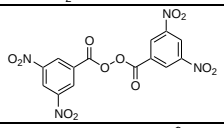
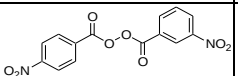
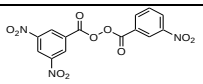
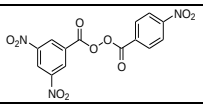
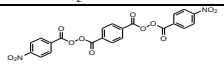
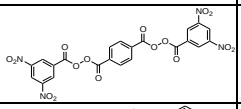
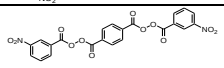
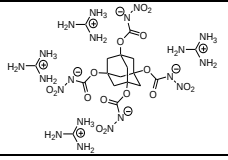
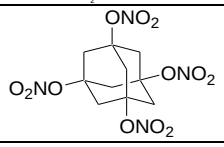
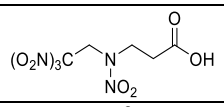
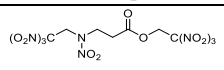
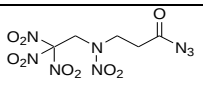
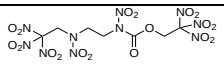
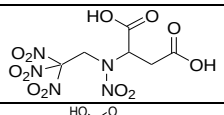
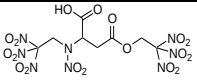
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
10	[29]		322	0	401	19.7	320	-0.6	348	7.5	322
11	[29]		440	10.7	440	10.7	392	-0.3	424	7.3	393
12	[30]		105	5.7	-	-	68	-45.6	86	-15.1	99
13	[30]		105	5.7	-	-	69	-43.5	87	-13.8	99
14	[30]		164	9.8	-	-	105	-41	134	-10.4	148
15	[30]		164	9.1	-	-	106	-40.6	135	-10.4	149
16	[25]		317	-1.6	375	14.1	327	1.5	340	5.3	322
17	[31]		323	8.4	350	15.4	285	-3.9	319	7.2	296
18	[31]		437	10.5	402	2.7	377	-3.7	405	3.5	391
19	[32] [26]		270	9.6	226	-8	231	-5.6	242	-0.8	244
20	[32]		266	8.6	181	-34.3	230	-5.7	226	-7.5	243
21	[32]		271	7.4	240	-4.6	241	-4.1	251	0	251
22	[32] [33]		309	9.7	230	-21.3	250	-11.6	263	-6.1	279
23	[32]		347	21.3	232	-17.7	256	-6.6	278	1.8	273
24	[34]		260	35.4	130	-29.2	202	16.8	197	14.7	168

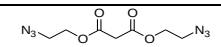
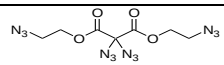
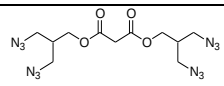
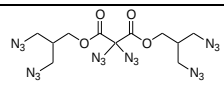
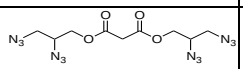
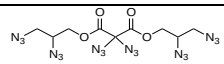
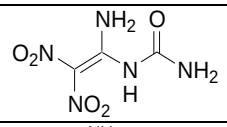
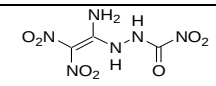
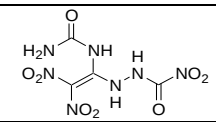
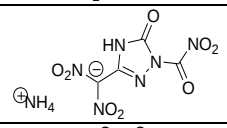
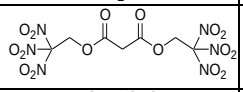
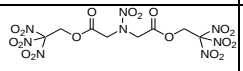
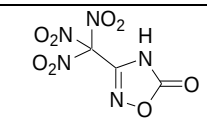
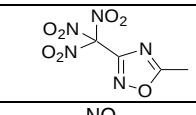
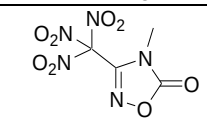
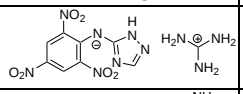
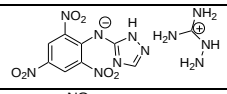
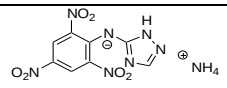
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
25	[34]		329	24	239	-4.6	273	8.4	280	10.7	250
26	[35]		109	27.5	-	-	81	2.5	28	-182.1	79
27	[35]		89	19.1	-	-	68	-5.9	12	-500	72
28	[35]		68	8.8	-	-	54	-14.8	-	-	62
29	[35]		154	35.1	47	-112.8	122	18	108	7.4	100
30	[35]		116	35.3	-	-	93	19.4	93	19.4	75
31	[36]		309	-	291	-	301	-	300	-	-
32	[36]		269	-	248	-	265	-	261	-	-
33	[36]		333	-	310	-	312	-	318	-	-
34	[36]		383	14.4	326	-0.6	349	6	353	7.1	328
35	[36]		358	12.6	260	-20.4	300	-4.3	306	-2.3	313
36	[37]		313	2.2	301	-1.7	226	-35.4	327	6.4	306
37	[37]		315	2.2	367	16.1	301	-2.3	328	6.1	308
38	[37]		309	6.5	367	21.3	290	0.3	322	10.2	289

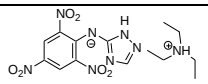
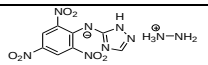
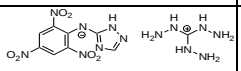
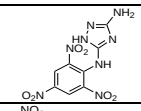
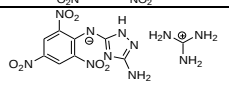
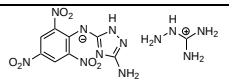
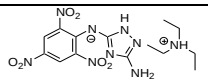
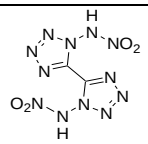
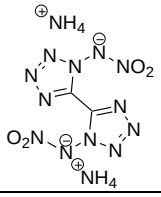
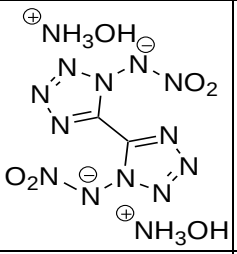
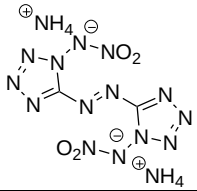
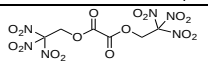
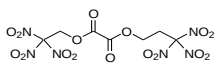
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
39	[26]		210	9	132	-44.7	184	-3.8	175	-9.1	191
40	[38]		266	23.3	178	-14.6	226	9.7	223	8.5	204
41	[38]		282	16	224	-5.8	255	7.1	254	6.7	237
42	[38]		459	30.3	370	13.5	307	-4.2	379	15.6	320
43	[38] [39]		377	0	410	8	296	-27.4	361	-4.4	377
44	[38]		164	12.8	90	-58.9	153	6.5	136	-5.1	143

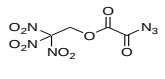
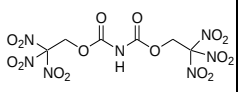
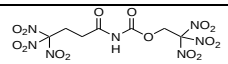
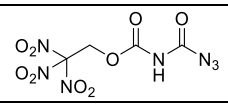
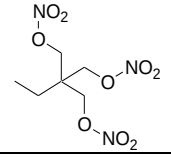
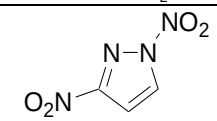
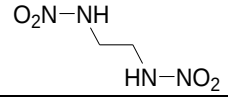
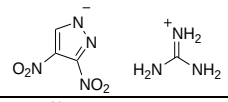
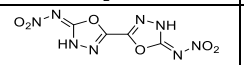
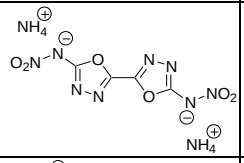
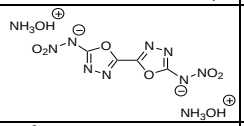
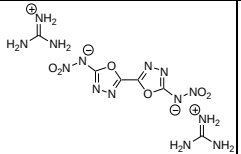
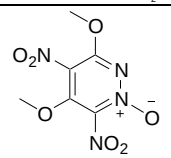
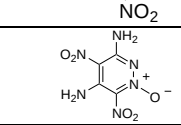
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
45	[38]		353	5.1	340	1.5	330	-1.5	341	1.8	335
46	[24]		63	-15.9	-	-	49	-49	56	-30.4	73
47	[24] [40]		309	26.9	-	-	237	4.6	273	17.2	226
48	[41]		358	-2	354	-3.1	368	0.8	360	-1.4	365
49	[42]		79	-44.3	-389	129.3	69	-65.2	-120	195	114
50	[43]		271	12.9	330	28.5	221	-6.8	274	13.9	236
51	[44]		336	6	298	-6	328	3.7	321	1.6	316
52	[45]		168	-89.3	-	-	242	-31.4	146	-117.8	318
53	[38]		181	-54.1	368	24.2	222	-25.7	257	-8.6	279
54	[38]		392	41.3	307	25.1	395	41.8	365	37	230
55	[38]		35	-868.6	344	1.5	354	4.2	352	3.7	339

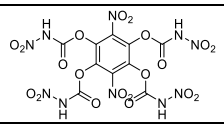
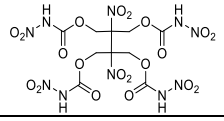
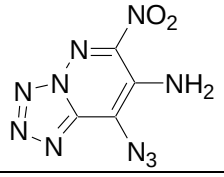
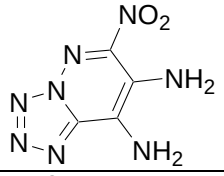
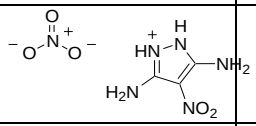
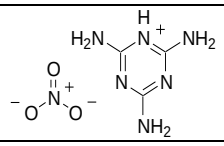
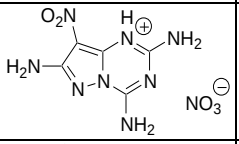
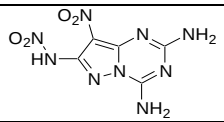
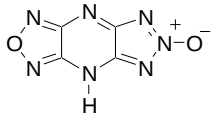
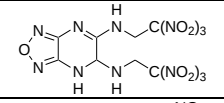
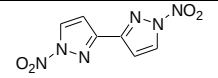
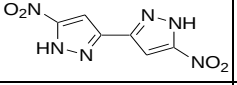
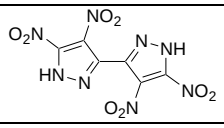
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
56	[38]		227	10.6	177	-14.7	216	6	207	1.9	203
57	[46]		451	18.4	545	32.5	357	-3.1	451	18.4	368
58	[38]		221	5	-	-	184	-14.1	202	-4	210
59	[47]		230	-0.9	131	-77.1	226	-2.7	196	-18.4	232
60	[38]		241	-5	248	-2	237	-6.8	242	-4.5	253
61	[38]		479	16.1	370	-8.6	434	7.4	428	6.1	402
62	[38]		441	4.3	377	-11.9	420	-0.5	413	-2.2	422
63	[38]		326	-3.7	-	-	259	-30.5	292	-15.8	338
64	[26]		341	0.3	378	10.1	340	0	353	3.7	340
65	[38]		398	4.3	388	1.8	384	0.8	390	2.3	381
66	[38]		345	-13.6	445	11.9	421	6.9	404	3	392

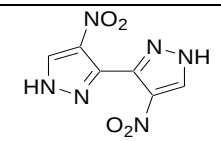
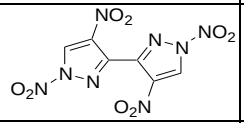
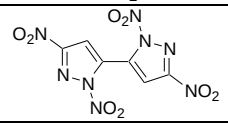
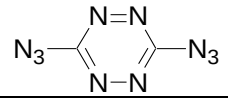
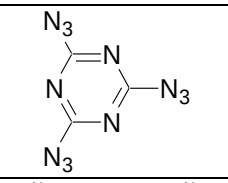
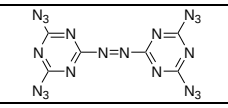
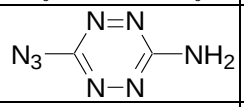
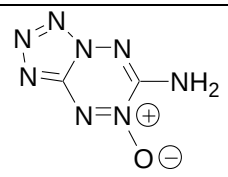
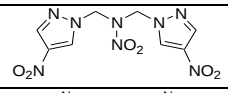
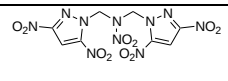
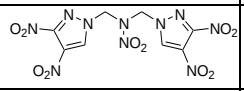
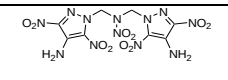
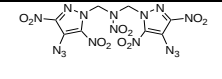
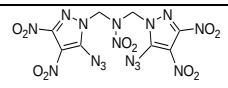
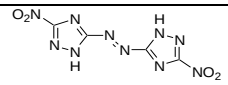
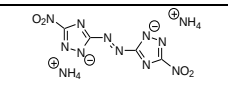
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
67	[48]		194	33	-64	303.1	137	5.1	134	3	130
68	[48]		194	33	-64	303.1	137	5.1	134	3	130
69	[48]		252	20.6	94	-112.8	202	1	183	-9.3	200
70	[48]		211	57.3	-64	240.6	148	39.2	148	39.2	90
71	[48]		233	22.7	25	-620	178	-1.1	145	-24.1	180
72	[48]		230	26.1	25	-580	176	3.4	144	-18.1	170
73	[48]		128	29.7	-	-	104	13.5	58	-55.2	90
74	[48]		160	18.8	4	-3150	138	5.8	101	-28.7	130
75	[48]		126	28.6	-	-	138	34.8	74	-21.6	90
76	[49]		68	-133.8	182	12.6	160	0.6	137	-16.1	159
77	[49]		253	9.5	156	-46.8	234	2.1	214	-7	229
78	[50]		313	11.5	299	7.4	287	3.5	300	7.7	277
79	[50]		338	13.6	351	16.8	313	6.7	334	12.6	292
80	[50]		310	6.1	356	18.3	294	1	320	9.1	291
81	[50]		428	14.7	384	4.9	387	5.7	400	8.8	365
82	[50]		291	19.6	266	12	248	5.6	268	12.7	234
83	[50]		306	19.3	323	23.5	270	8.5	300	17.7	247

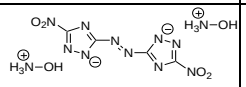
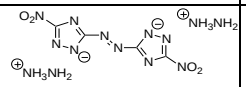
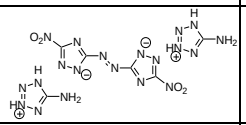
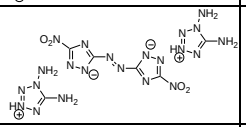
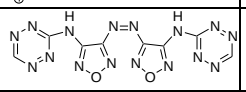
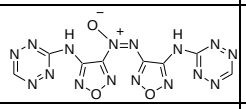
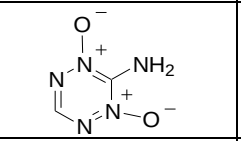
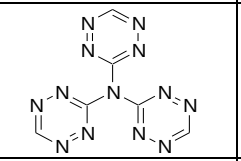
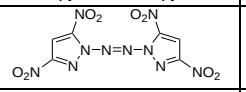
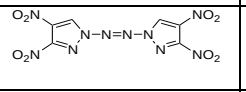
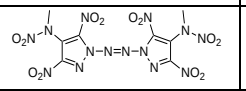
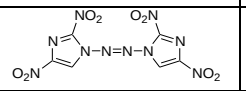
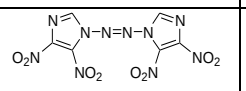
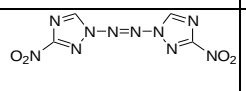
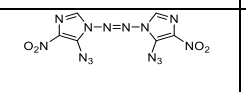
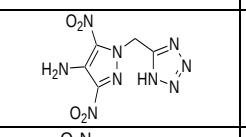
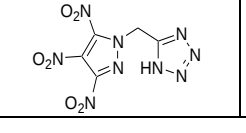
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
84	[51]		162	27.2	22	-436.4	119	0.8	101	-16.8	118
85	[51]		208	18.3	217	21.7	174	2.3	200	15	170
86	[51]		148	-8.1	66	-142.4	129	-24	114	-40.4	160
87	[51]		196	7.7	195	7.2	178	-1.7	190	4.7	181
88	[51]		141	15.6	135	11.9	120	0.8	132	9.8	119
89	[51]		209	14.8	260	31.5	183	2.7	217	18	178
90	[52]		317	3.8	308	1	294	-3.7	306	0.3	305
91	[52]		307	4.6	385	23.9	320	8.4	337	13.1	293
92	[52]		260	11.2	344	32.8	262	11.8	289	20.1	231
93	[52]		331	15.7	344	18.9	302	7.6	326	14.4	279
94	[53]		345	28.7	309	20.4	306	19.6	320	23.1	246
95	[53]		360	33.3	323	25.7	319	24.8	334	28.1	240
96	[54]		407	18.7	372	11	430	23	403	17.9	331
97	[54]		357	3.1	382	9.4	339	-2.1	359	3.6	346
98	[54]		346	0	328	-5.5	349	0.9	341	-1.5	346
99	[55]		218	3.2	242	12.8	207	-1.9	222	5	211
100	[55]		247	-8.5	254	-5.5	249	-7.6	250	-7.2	268
101	[55]		321	10	242	-19.4	268	-7.8	277	-4.3	289

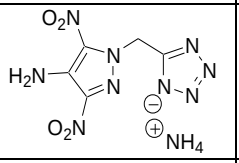
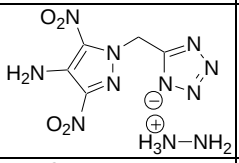
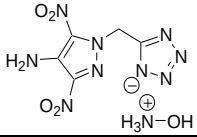
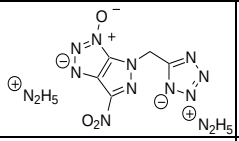
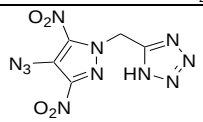
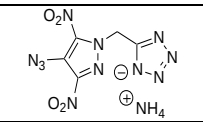
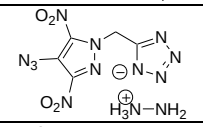
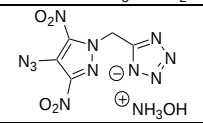
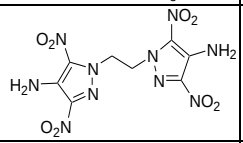
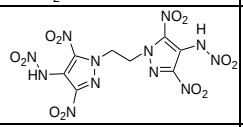
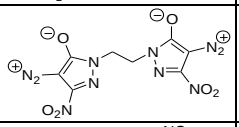
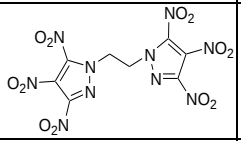
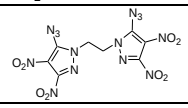
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
102	[55]		154	-2.6	42	-276.2	146	-8.2	114	-38.6	158
103	[55]		223	1.3	256	14.1	217	-1.4	232	5.2	220
104	[55]		170	-22.4	275	24.4	206	-1	217	4.1	208
105	[55]		296	6.1	256	-8.6	256	-8.6	269	-3.3	278
106	[55]		188	1.6	254	27.2	186	0.5	209	11.5	185
107	[55]		197	-8.6	265	19.2	210	-1.9	224	4.5	214
108	[55]		150	-0.7	60	-151.7	140	-7.9	117	-29.1	151
109	[56]		418	-9.1	557	18.1	436	-4.6	470	3	456
110	[56]		391	7.7	506	28.7	296	-22	398	9.3	361
111	[56]		395	-5.8	529	21	397	-5.3	440	5	418
112	[56]		379	5.5	524	31.7	336	-6.5	413	13.3	358
113	[57]		392	27	292	2.1	349	18.1	344	16.9	286
114	[57]		333	18.9	309	12.6	299	9.7	314	14	270

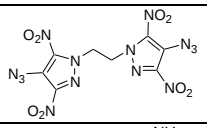
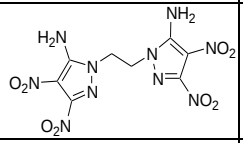
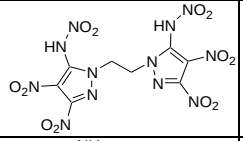
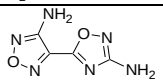
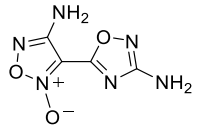
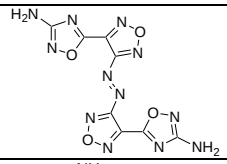
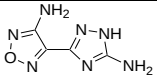
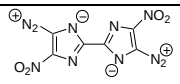
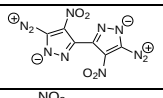
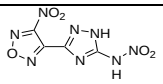
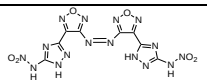
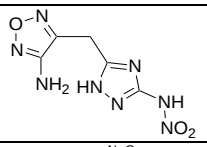
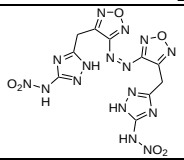
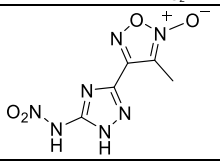
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
115	[57]		335	16.4	344	18.6	304	7.9	328	14.6	280
116	[57]		415	42.9	314	24.5	370	35.9	366	35.2	237
117	[57]		279	13.6	319	24.5	260	7.3	270	10.7	241
118	[57]		233	18.9	355	46.8	215	12.1	268	29.5	189
119	[26]		216	9.3	180	-8.9	210	6.7	202	3	196
120	[37]		315	2.9	367	16.6	301	-1.7	328	6.7	306
121	[26]		292	-2.4	319	6.3	309	3.2	307	2.6	299
122	[37]		230	-20	317	12.9	222	-24.3	256	-7.8	276
123	[58]		387	-1	343	-14	375	-4.3	368	-6.3	391
124	[58]		438	20.3	351	0.6	333	-4.8	374	6.7	349
125	[58]		404	15.6	381	10.5	369	7.6	385	11.4	341
126	[58]		271	8.5	326	23.9	248	0	282	12.1	248
127	[59]		241	13.7	217	4.1	220	5.5	226	8	208
128	[59]		318	5	358	15.6	307	1.6	328	7.9	302

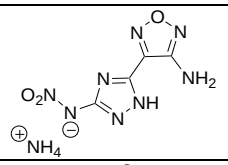
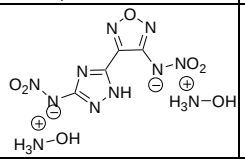
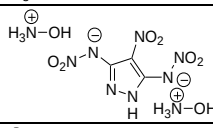
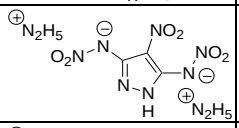
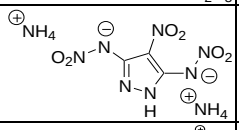
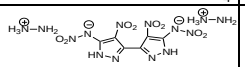
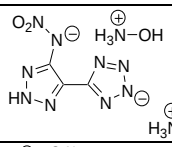
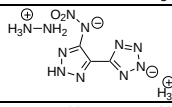
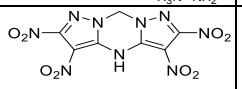
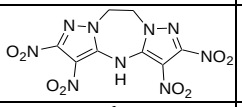
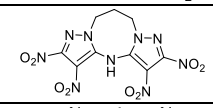
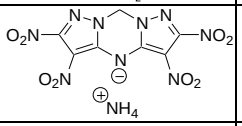
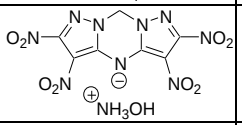
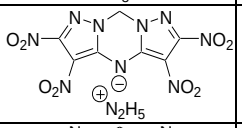
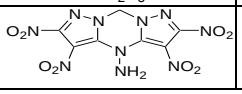
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
129	[60]		278	-	293	-	250	-	274	-	-
130	[60]		340	-	276	-	314	-	310	-	-
131	[61]		344	8.4	403	21.8	291	-8.2	346	9	315
132	[61]		314	11.8	307	9.8	258	-7.4	293	5.5	277
133	[62]		270	-10.4	367	18.8	292	-2.1	310	3.9	298
134	[62]		228	15.4	326	40.8	192	-0.5	249	22.5	193
135	[62]		300	6	350	19.4	270	-4.4	307	8.1	282
136	[62]		336	5.1	345	7.5	292	-9.2	324	1.5	319
137	[63]		346	6.4	360	10	282	-14.9	329	1.5	324
138	[63]		310	-3.5	375	14.4	315	-1.9	333	3.6	321
139	[64]		330	12.7	244	-18	265	-8.7	280	-2.9	288
140	[64]		301	13	244	-7.4	245	-6.9	263	0.4	262
141	[64]		344	6.1	375	13.9	293	-10.2	337	4.2	323

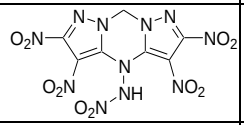
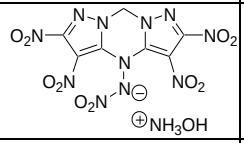
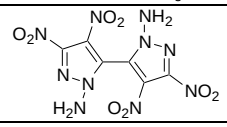
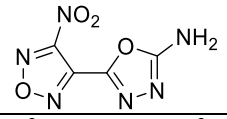
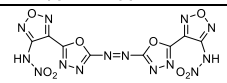
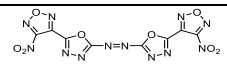
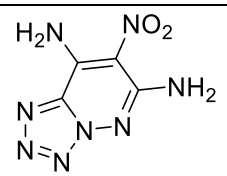
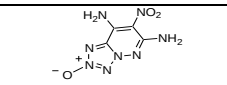
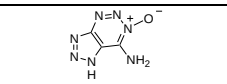
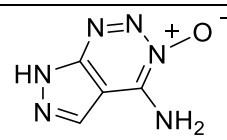
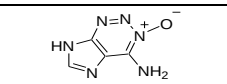
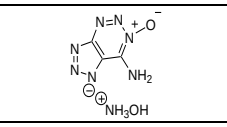
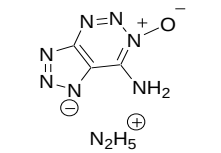
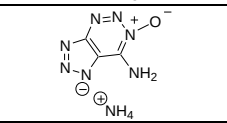
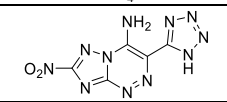
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
142	[64]		308	12.7	244	-10.2	250	-7.6	267	-0.7	269
143	[64]		378	8.7	375	8	327	-5.5	360	4.2	345
144	[64]		380	6.8	375	5.6	332	-6.6	362	2.2	354
145	[40]		271	2.2	-	-	267	0.7	269	1.5	265
146	[40]		313	14.1	-	-	258	-4.3	286	5.9	269
147	[40]		301	12.3	-	-	250.5	-5.4	275.8	4.3	264
148	[40]		274	1.5	-	-	250	-8	262	-3.1	270
149	[40]		374	2.7	417	12.7	332	-9.6	374	2.7	364
150	[65]		280	10.4	242	-3.7	236	-6.4	253	0.8	251
151	[65]		343	9.9	345	10.4	299	-3.3	329	6.1	309
152	[65]		343	9.6	345	10.1	299	-3.7	329	5.8	310
153	[65]		352	1.4	361	3.9	331	-4.8	348	0.3	347
154	[65]		386	9.1	415	15.4	333	-5.4	378	7.1	351
155	[65]		386	8.8	415	15.2	333	-5.7	378	6.9	352
156	[66]		365	4.9	440	21.1	323	-7.4	376	7.7	347
157	[66]		349	15.5	402	26.6	279	-5.7	343	14	295

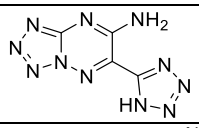
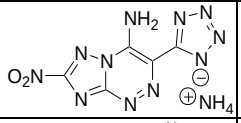
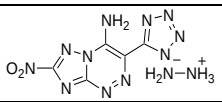
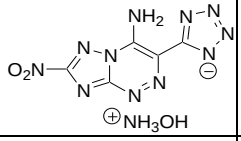
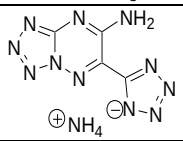
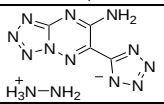
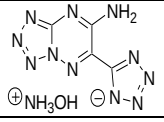
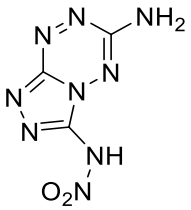
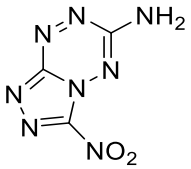
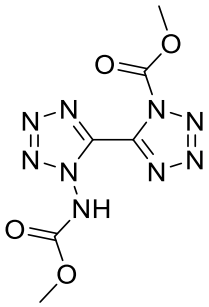
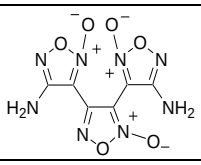
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
158	[66]		356	7.3	436	24.3	315	-4.8	369	10.6	330
159	[66]		314	-4.8	410	19.8	310	-6.1	345	4.6	329
160	[66]		293	11.9	433	40.4	266	3	331	22.1	258
161	[66]		329	10.6	436	32.6	271	-8.5	345	14.8	294
162	[67]		290	13.4	325	22.8	236	-6.4	284	11.6	251
163	[67]		326	13.2	350	19.1	262	-8	313	9.6	283
164	[67]		307	1.6	365	17.3	291	-3.8	321	5.9	302
165	[67]		320	17.5	-	-	238	-10.9	279	5.4	264
166	[68]**4**		368	5.4	403	13.6	326	-6.7	366	4.9	348
167	[68]**5**		372	5.6	403	12.9	330	-6.4	368	4.6	351
168	[68]**6**		377	8.2	402	13.9	332	-4.2	370	6.5	346
169	[68]**7**		385	7.5	403	11.7	333	-6.9	374	4.8	356
170	[68]**8**		376	6.6	403	12.9	328	-7	369	4.9	351
171	[68]		362	7.5	440	23.9	311	-7.7	371	9.7	335
172	[68]		342	8.2	418	24.9	285	-10.2	348	9.8	314
173	[69]		329	8.8	345	13	283	-6	319	6	300
174	[69]		369	6.5	397	13.1	326	-5.8	364	5.2	345

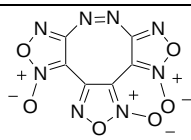
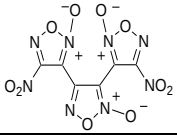
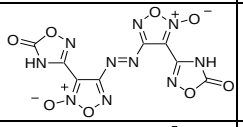
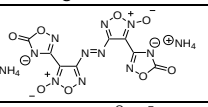
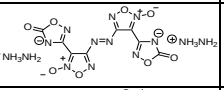
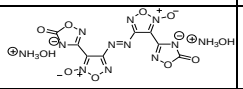
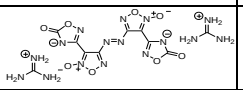
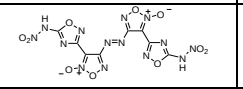
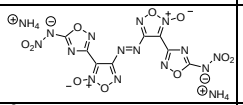
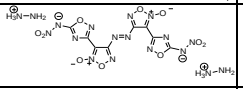
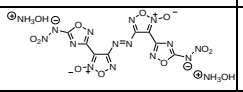
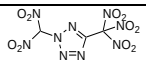
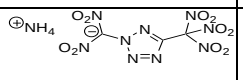
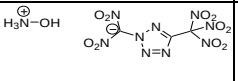
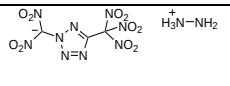
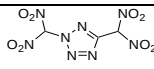
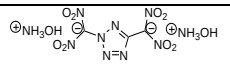
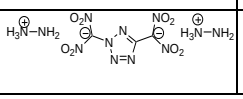
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
175	[69]		288	12.8	331	24.2	247	-1.6	289	13.1	251
176	[69]		255	-0.4	339	24.5	249	-2.8	281	8.9	256
177	[69]		306	2.6	355	16.1	287	-3.8	316	5.7	298
178	[69]		277	-4.3	322	10.2	267	-8.2	289	0	289
179	[69]		344	6.7	402	20.1	299	-7.4	348	7.8	321
180	[69]		292	11.6	386	33.2	251	-2.8	310	16.8	258
181	[69]		299	0.7	391	24	286	-3.8	325	8.6	297
182	[69]		331	2.7	403	20.1	305	-5.6	346	6.9	322
183	[70]		299	6.7	313	10.9	268	-4.1	293	4.8	279
184	[70]		357	3.9	384	10.7	331	-3.6	357	3.9	343
185	[70]		299	19.1	307	21.2	233	-3.9	280	13.6	242
186	[70]		382	10.7	370	7.8	329	-3.6	360	5.3	341
187	[70]		347	3.7	383	12.8	311	-7.4	347	3.7	334

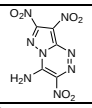
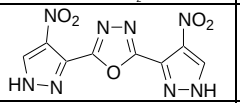
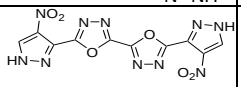
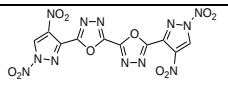
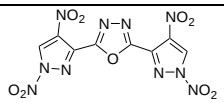
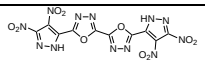
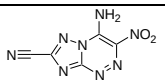
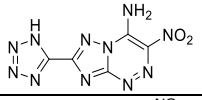
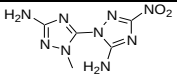
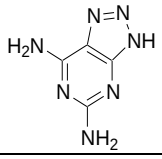
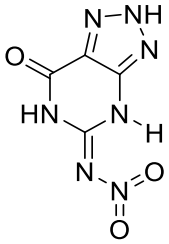
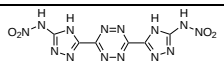
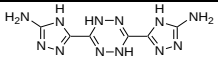
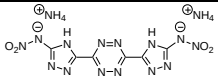
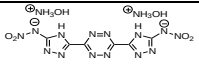
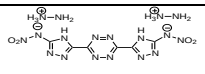
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
188	[70]		338	8.3	383	19.1	292	-6.2	338	8.3	310
189	[70]		292	6.5	313	12.8	263	-3.8	289	5.5	273
190	[70]		353	4.5	384	12.2	327	-3.1	355	5.1	337
191	[71]		265	23	240	15	198	-3	234	12.8	204
192	[71]		308	13	298	10.1	254	-5.5	287	6.6	268
193	[71]		282	23.4	308	29.9	204	-5.9	265	18.5	216
194	[71]		261	17.6	92	-133.7	193	-11.4	182	-18.1	215
195	[72]		354	12.1	380	18.2	281	-10.7	338	8	311
196	[72]		362	6.1	380	10.5	302	-12.6	348	2.3	340
197	[73]		352	-2.3	420	14.3	337	-6.8	370	2.7	360
198	[73]		364	4.1	388	10.1	320	-9.1	357	2.2	349
199	[73]		258	3.5	275	9.5	238	-4.6	257	3.1	249
200	[73]		277	6.1	320	18.8	248	-4.8	282	7.8	260
201	[73]		289	2.4	300	6	269	-4.8	286	1.4	282

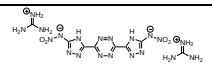
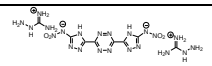
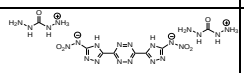
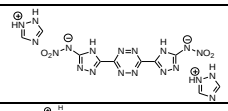
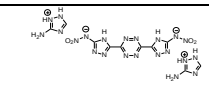
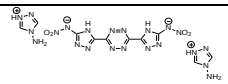
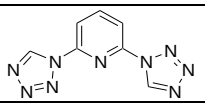
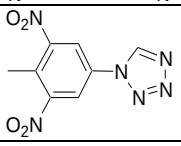
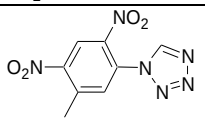
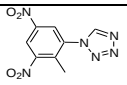
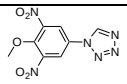
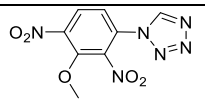
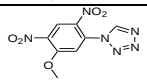
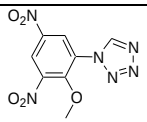
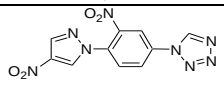
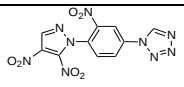
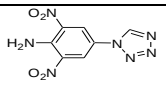
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
202	[73]		277	11.2	326	24.5	239	-2.9	281	12.5	246
203	[73]		290	-26.2	428	14.5	292	-25.3	337	-8.6	366
204	[74]		364	-9.9	451	11.3	402	0.5	406	1.5	400
205	[74]		314	-22.6	437	11.9	373	-3.2	375	-2.7	385
206	[74]		341	4.4	426	23.5	319	-2.2	362	9.9	326
207	[74]		303	-16.2	397	11.3	338	-4.1	346	-1.7	352
208	[74]		337	-3.3	416	16.3	330	-5.5	361	3.6	348
209	[74]		264	-14	317	5	276	-9.1	270	-11.5	301
210	[75]		373	8	352	2.6	323	-6.2	349	1.7	343
211	[75]		323	9.6	313	6.7	277	-5.4	304	3.9	292
212	[75]		297	8.4	276	1.4	258	-5.4	277	1.8	272
213	[75]		359	11.7	350	9.4	302	-5	337	5.9	317
214	[75]		367	2.2	361	0.6	331	-8.5	353	-1.7	359
215	[75]		337	1.5	359	7.5	315	-5.4	337	1.5	332
216	[75]		333	11.1	361	18	285	-3.9	326	9.2	296

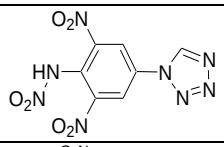
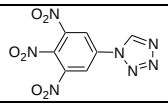
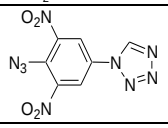
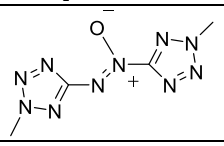
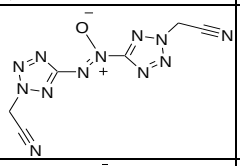
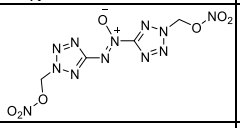
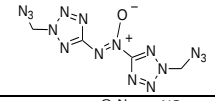
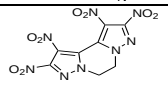
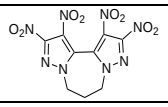
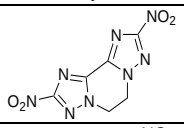
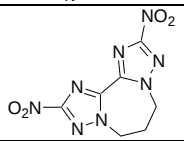
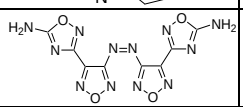
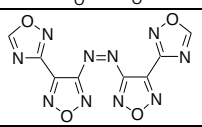
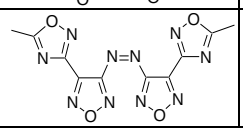
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
217	[75]		412	5.8	396	2	366	-6	391	0.8	388
218	[75]		391	5.1	401	7.5	359	-3.3	384	3.4	371
219	[76]		318	2.5	391	20.7	299	-3.7	336	7.7	310
220	[77]		313	14.1	363	25.9	260	-3.5	312	13.8	269
221	[77]		355	17.5	352	16.8	277	-5.8	328	10.7	293
222	[77]		404	13.1	379	7.4	299	-17.4	346	-1.4	351
223	[78]		340	10.9	307	1.3	271	-11.8	306	1	303
224	[78]		353	1.4	353	1.4	313	-11.2	340	-2.4	348
225	[79]		321	5.6	257	-17.9	276	-9.8	285	-6.3	303
226	[79]		291	12	95	-169.5	225	-13.8	204	-25.5	256
227	[79]		281	17.1	95	-145.3	210	-11	195	-19.5	233
228	[79]		313	10.5	305	8.2	260	-7.7	293	4.4	280
229	[79]		285	-17.9	126	-166.7	251	-33.9	221	-52	336
230	[79]		309	8.7	131	-115.3	252	-11.9	231	-22.1	282
231	[80]		364	9.9	357	8.1	276	-18.8	332	1.2	328

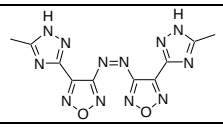
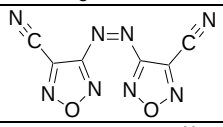
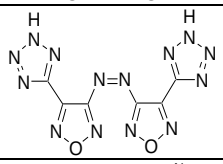
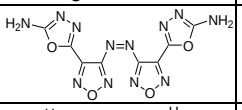
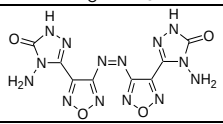
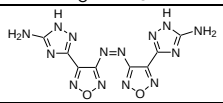
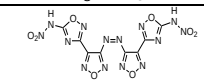
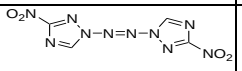
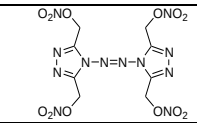
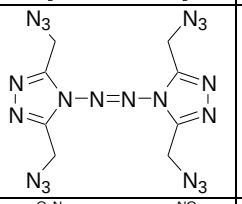
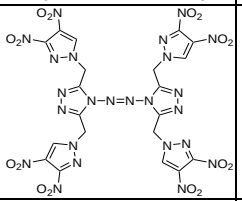
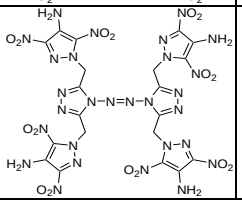
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
232	[80]		332	22.9	-	-	246	-4.1	289	11.4	256
233	[80]		356	19.7	318	10.1	255	-12.2	310	7.7	286
234	[80]		347	5.2	319	-3.1	284	-15.8	317	-3.8	329
235	[80]		367	9.8	361	8.3	294	-12.6	341	2.9	331
236	[80]		320	22.2	-	-	219	-13.7	270	7.8	249
237	[80]		302	8.6	-	-	240	-15	271	-1.8	276
238	[80]		322	13	236	-18.6	253	-10.7	270	-3.7	280
239	[81]		324	3.4	411	23.8	295	-6.1	343	8.7	313
240	[81]		352	3.7	416	18.5	314	-8	361	6.1	339
241	[82]		262	23.3	203	1	212	5.2	226	11.1	201
242	[83]		331	6.3	336	7.7	293	-5.8	320	3.1	310

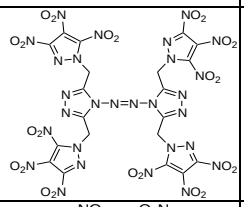
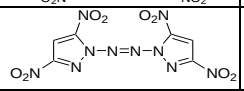
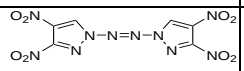
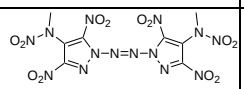
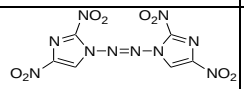
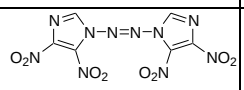
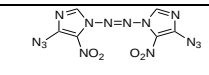
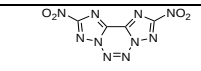
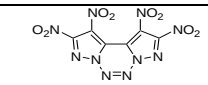
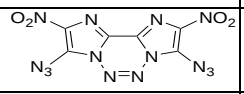
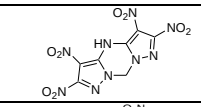
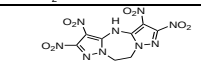
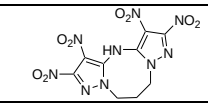
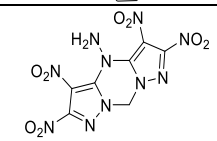
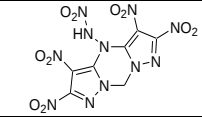
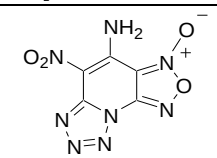
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
243	[83]		409	3.2	368	-7.6	347	-14.1	375	-5.6	396
244	[83]		444	8.1	404	-1	381	-7.1	410	0.5	408
245	[84]		399	13	283	-22.6	321	-8.1	334	-3.9	347
246	[84]		323	15.5	285	4.2	246	-11	285	4.2	273
247	[84]		301	2.7	356	17.7	282	-3.9	313	6.4	293
248	[84]		337	8.9	310	1	293	-4.8	313	1.9	307
249	[84]		242	-10.3	280	4.6	198	-34.8	240	-11.3	267
250	[84]		436	5.3	386	-7	375	-10.1	399	-3.5	413
251	[84]		348	17	383	24.5	279	-3.6	337	14.2	289
252	[84]		336	5.1	394	19	310	-2.9	347	8.1	319
253	[84]		360	4.7	396	13.4	328	-4.6	361	5	343
254	[85]		420	25.7	407	23.3	405	23	411	24.1	312
255	[85]		380	16.8	447	29.3	367	13.9	398	20.6	316
256	[85]		431	15.8	426	14.8	436	16.7	434	16.4	363
257	[85]		363	4.7	466	25.8	352	1.7	394	12.2	346
258	[85]		421	10.5	454	17	406	7.1	427	11.7	377
259	[85]		401	-5.7	482	12	420	-1	434	2.3	424
260	[85]		331	-14.5	477	20.5	376	-0.8	395	4.1	379

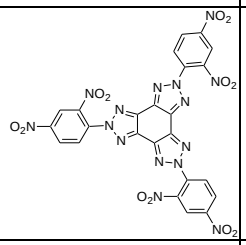
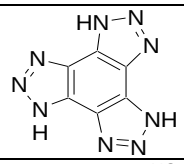
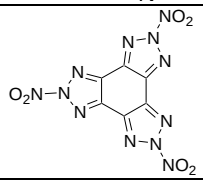
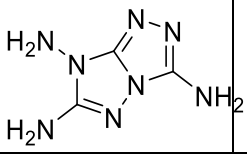
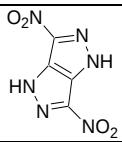
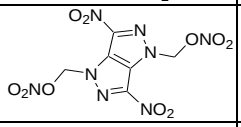
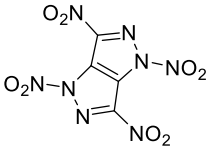
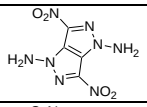
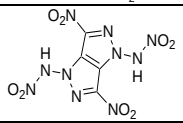
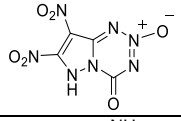
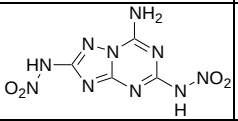
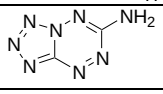
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
261	[86]		383	14.9	389	16.2	329	0.9	367	11.2	326
262	[87]		309	12.2	222	-22.3	250	-8.6	260	-4.4	271.4
263	[87]		325	18.4	206	-28.8	246	-7.8	259	-2.4	265.3
264	[87]		395	13.3	300	-14.1	252	-35.8	316	-8.3	342.3
265	[87]		388	14.1	331	-0.7	329	-1.3	349	4.5	333.3
266	[87]		382	14.3	300	-9.2	263	-24.5	315	-4	327.5
267	[88]		301	23.4	309	25.4	225	-2.4	263	12.4	230.5
268	[88]		342	20.9	357	24.3	260	-4	320	15.5	270.4
269	[89]		316	19.6	222	-14.4	244	-4.1	261	2.7	254
270	[90]		241	24.6	-	-	161	-12.8	201	9.7	181.6
271	[90]		354	8.1	312	-4.3	293	-11.1	320	-1.7	325.4
272	[91]		347	8.6	400	20.8	341	7	363	12.7	317
273	[91]		246	-48	-	-	263	-38.4	254	-43.3	364
274	[91]		345	9.9	374	16.8	293	-6.1	337	7.7	311
275	[91]		336	-12.5	406	6.9	353	-7.1	365	-3.6	378
276	[91]		290	-16.2	383	12	312	-8	328	-2.7	337

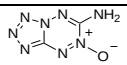
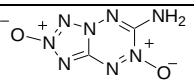
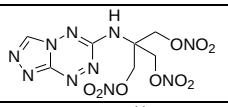
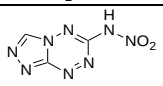
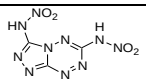
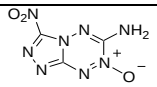
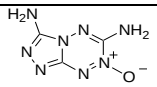
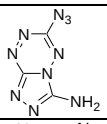
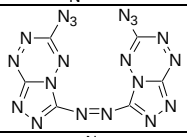
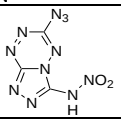
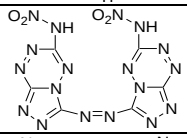
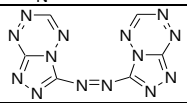
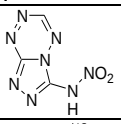
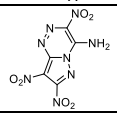
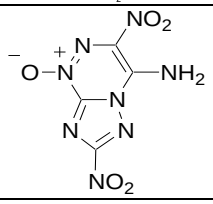
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
277	[91]		265	-16.6	343	9.9	277	-11.6	295	-4.7	309
278	[91]		227	-40.1	352	9.7	285	-11.6	288	-10.4	318
279	[91]		247	-35.2	387	13.7	311	-7.4	315	-6	334
280	[91]		323	1.5	325	2.2	289	-10	312	-1.9	318
281	[91]		295	-13.9	335	-0.3	296	-13.5	309	-8.7	336
282	[91]		329	1.8	335	3.6	284	-13.7	316	-2.2	323
283	[92]		247	30.4	-	-	157	-9.6	202	14.9	172
284	[92]		255	20	150	-36	197	-3.6	201	-1.5	204
285	[92]		245	20.4	150	-30	190	-2.6	195	0	195
286	[92]		242	21.1	150	-27.3	187	-2.1	193	1	191
287	[92]		274	27.4	168	-18.5	216	7.9	219	9.1	199
288	[92]		247	20.2	168	-17.3	195	-1	203	3	197
289	[92]		257	18.3	168	-25	205	-2.4	210	0	210
290	[92]		260	18.8	168	-25.6	207	-1.9	212	0.5	211
291	[92]		254	25.6	150	-26	184	-2.7	196	3.6	189
292	[92]		281	22.1	229	4.4	215	-1.9	242	9.5	219
293	[92]		265	9.1	223	-8.1	212	-13.7	233	-3.4	241

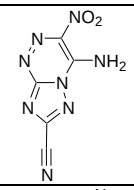
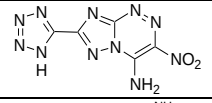
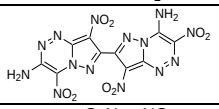
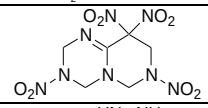
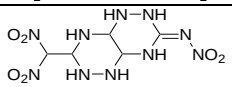
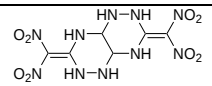
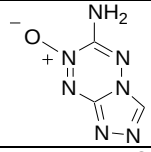
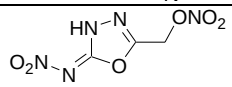
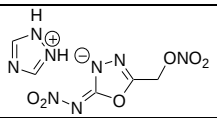
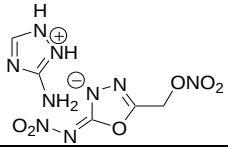
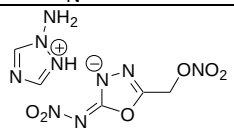
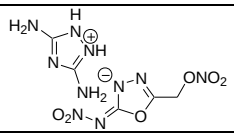
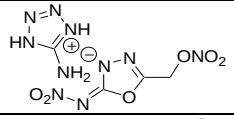
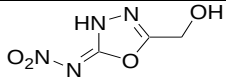
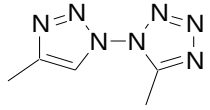
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
294	[92]		304	7.9	302	7.3	267	-4.9	291	3.8	280
295	[92]		342	17	289	1.7	286	0.7	306	7.2	284
296	[92]		288	9	293	10.6	234	-12	272	3.7	262
297	[93]		256	25.8	172	-10.5	184	-3.3	204	6.9	190
298	[93]		249	24.9	239	21.8	180	-3.9	223	16.1	187
299	[93]		333	22.5	478	46	275	6.2	362	28.7	258
300	[93]		279	36.6	390	54.6	180	1.7	283	37.5	177
301	[94]		320	12.2	302	7	267	-5.2	296	5.1	281
302	[94]		277	13	264	8.7	232	-3.9	258	6.6	241
303	[94]		307	21.5	296	18.6	232	-3.9	278	13.3	241
304	[94]		261	24.5	238	17.2	195	-1	231	14.7	197
305	[95]		359	21.2	283	0	256	-10.5	299	5.4	283
306	[95]		312	27.2	262	13.4	216	-5.1	263	13.7	227
307	[95]		318	28.9	172	-31.4	212	-6.6	234	3.4	226

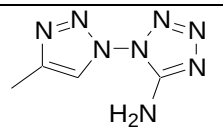
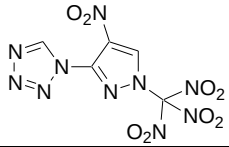
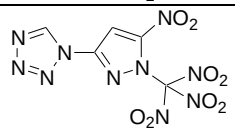
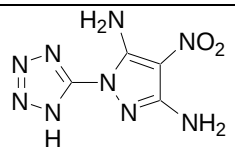
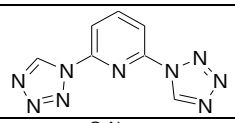
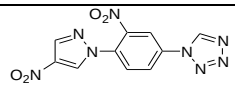
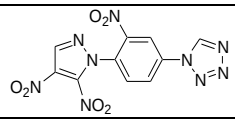
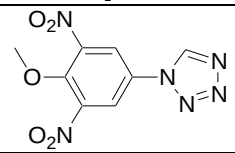
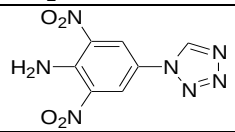
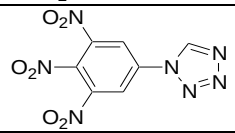
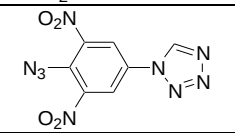
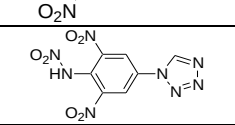
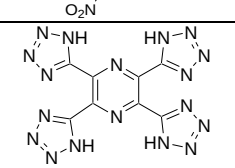
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
308	[95]		307	14	137	-92.7	211	-25.1	218	-21.1	264
309	[95]		258	15.5	311	29.9	202	-7.9	257	15.2	218
310	[95]		311	10	389	28	239	-17.2	313	10.5	280
311	[95]		350	22	257	-6.2	249	-9.6	285	4.2	273
312	[95]		272	17.6	286	21.7	217	-3.2	258	13.2	224
313	[95]		300	12.7	262	0	228	-14.9	263	0.4	262
314	[95]		520	11.3	372	-23.9	418	-10.3	437	-5.5	461
315	[95]		362	7.5	440	23.9	311	-7.7	371	9.7	335
316	[95]		327	12.8	384	25.8	280	-1.8	330	13.6	285
317	[95]		231	9.5	-	-	194	-7.7	212	1.4	209
318	[95]		361	25.5	303	11.2	254	-5.9	306	12.1	269
319	[95]		322	15.2	322	15.2	261	-4.6	302	9.6	273

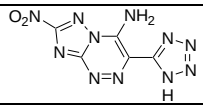
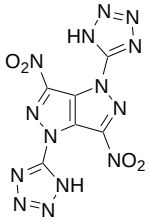
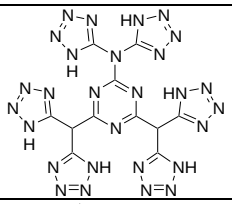
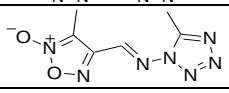
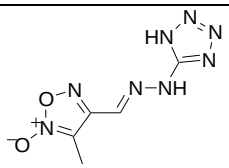
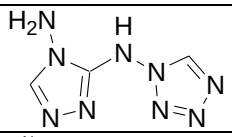
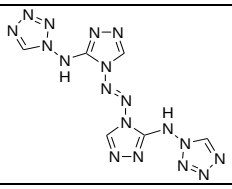
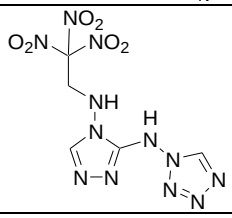
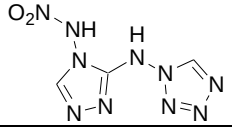
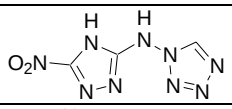
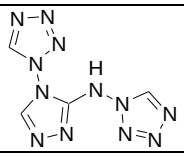
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
320	[95]		460	29.8	364	11.3	306	-5.6	377	14.3	323
321	[95]		368	5.4	403	13.6	326	-6.7	366	4.9	348
322	[95]		372	5.6	403	12.9	330	-6.4	368	4.6	351
323	[95]		377	8.2	402	13.9	330	-4.8	370	6.5	346
324	[95]		385	7.5	403	11.7	333	-6.9	374	4.8	356
325	[95]		376	33.2	403	37.7	328	23.5	369	32	251
326	[95]		342	8.2	418	24.9	293	-7.2	351	10.5	314
327	[96]		431	11.8	464	18.1	345	-10.1	413	8	380
328	[96]		427	-3	414	-6.3	353	-24.6	398	-10.6	440
329	[96]		417	12	436	15.8	330	-11.2	394	6.9	367
330	[96]		375	8.5	352	2.6	324	-5.9	350	2	343
331	[96]		323	9.6	313	6.7	277	-5.4	304	3.9	292
332	[96]		297	8.4	276	1.4	258	-5.4	277	1.8	272
333	[96]		333	11.1	361	18	285	-3.9	326	9.2	296
334	[96]		413	6.1	396	2	367	-5.7	392	1	388
335	[96]		402	10.4	361	0.3	360	0	374	3.7	360

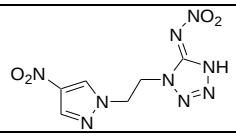
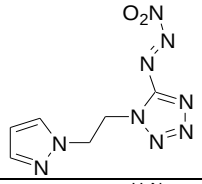
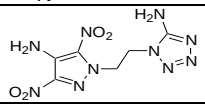
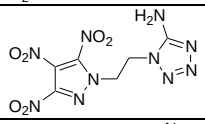
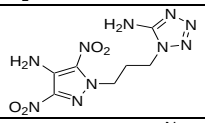
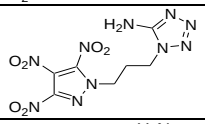
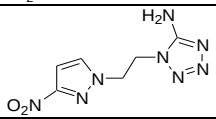
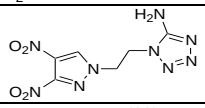
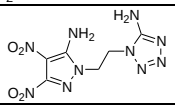
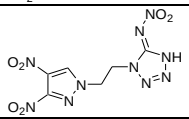
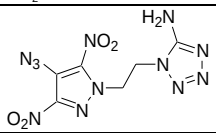
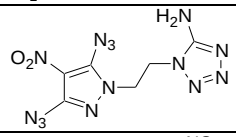
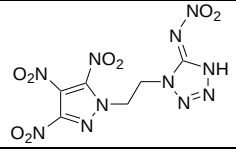
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
336	[96]		274	27.4	154	-29.2	180	-10.6	203	2	199
337	[96]		302	35.8	-	-	153	-26.8	228	14.9	194
338	[96]		411	24.1	425	26.6	292	-6.8	376	17	312
339	[96]		273	5.1	-	-	217	-19.4	245	-5.7	259
340	[96]		339	19.2	363	24.5	305	10.2	336	18.5	274
341	[96]		376	12	364	9.1	327	-1.2	356	7	331
342	[96]		448	8.7	462	11.5	414	1.2	441	7.3	409
343	[96]		341	0.6	380	10.8	318	-6.6	346	2	339
344	[96]		412	-1.5	471	11.3	405	-3.2	429	2.6	418
345	[96]		445	25.4	397	16.4	372	10.8	405	18	332
346	[96]		333	-2.7	416	17.8	315	-8.6	355	3.7	342
347	[96]		292	7.5	-	-	250	-8	271	0.4	270

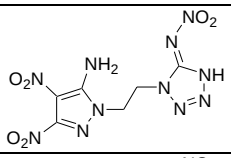
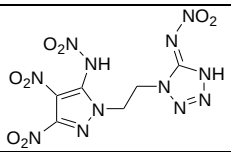
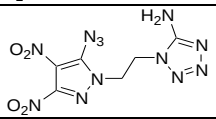
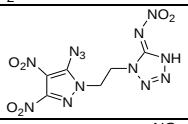
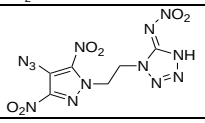
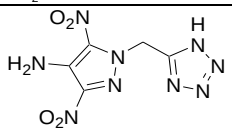
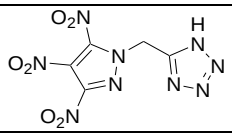
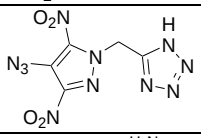
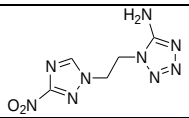
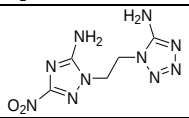
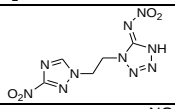
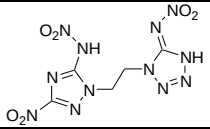
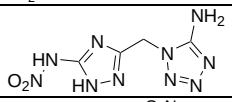
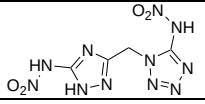
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
348	[96]		374	2.7	417	12.7	332	-9.6	374	2.7	364
349	[96]		406	-1.7	480	14	372	-11	419	1.4	413
350	[96]		337	12.8	325	9.5	302	2.6	321	8.4	294
351	[96]		324	6.2	416	26.9	293	-3.8	344	11.6	304
352	[96]		390	1.8	487	21.4	379	-1.1	419	8.6	383
353	[96]		370	-5.7	442	11.5	359	-8.9	390	-0.3	391
354	[96]		326	-6.4	240	-44.6	269	-29	278	-24.8	347
355	[96]		312	8.7	-	-	260	-9.6	286	0.3	285
356	[96]		381	20.7	-	-	283	-6.7	332	9	302
357	[96]		371	2.2	494	26.5	333	-9	399	9	363
358	[96]		404	1.5	460	13.5	192	-107.3	352	-13.1	398
359	[96]		423	17.7	-	-	298	-16.8	360	3.3	348
360	[96]		344	3.5	416	20.2	306	-8.5	355	6.5	332
361	[96]		404	10.9	389	7.5	307	-17.3	367	1.9	360
362	[96]		388	8.8	420	15.7	338	-4.7	382	7.3	354

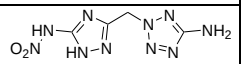
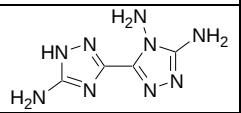
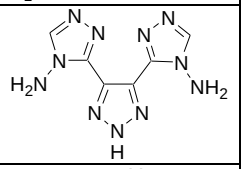
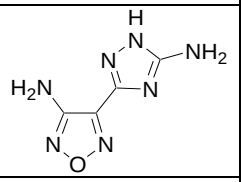
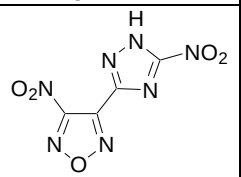
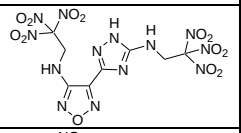
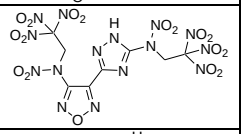
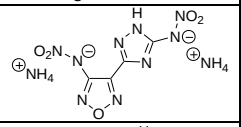
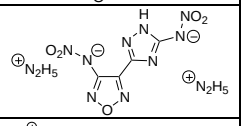
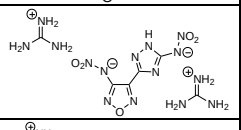
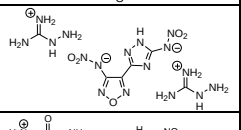
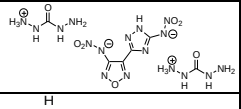
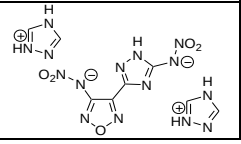
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
363	[96]		322	28.3	309	25.2	240	3.8	290	20.3	231
364	[96]		343	21.3	357	24.4	264	-2.3	321	15.9	270
365	[96]		347	9.5	336	6.5	275	-14.2	319	1.6	314
366	[96]		356	4.9	321	-5.5	329	-2.9	335	-1.1	338.7
367	[96]		230	-27.8	340	13.5	286	-2.8	285	-3.2	294
368	[96]		268	-31.3	352	0	334	-5.4	318	-10.7	352
369	[97]		292	12.7	257	0.8	240	-6.3	263	3	255
370	[98]		361	3.1	359	2.5	357	2	359	2.5	349.9
371	[98]		314	-1.8	312	-2.5	268	-19.3	298	-7.3	319.8
372	[98]		285	-12.7	324	0.9	325	1.2	311	-3.3	321.2
373	[98]		307	-9.8	339	0.6	338	0.3	328	-2.8	337.1
374	[98]		286	-12.3	348	7.7	279	-15.1	304	-5.7	321.2
375	[98]		305	-19.9	399	8.3	358	-2.2	354	-3.3	365.7
376	[98]		320	14.9	277	1.7	288	5.5	295	7.7	272.2
377	[99]		203	-20.7	-	-	151	-62.3	177	-38.4	245

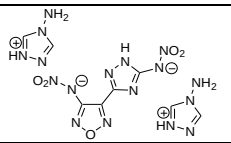
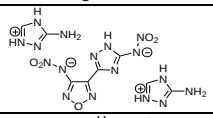
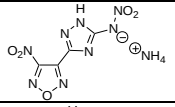
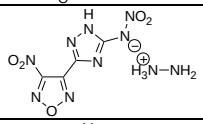
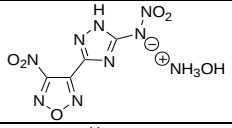
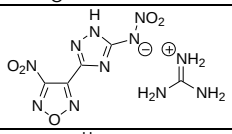
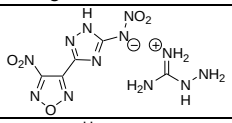
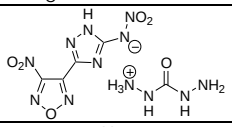
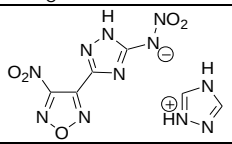
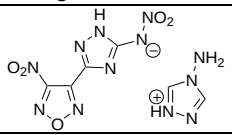
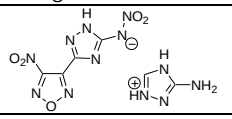
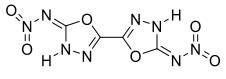
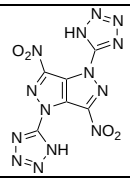
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
378	[99]		219	7.3		-	181	-12.2	200	-1.5	203
379	[99]		370	8.1	435	21.8	330	-3	378	10.1	340
380	[99]		357	10.4	435	26.4	321	0.3	371	13.7	320
381	[99]		288	10.1	310	16.5	180	-43.9	259	0	259
382	[99]		247	30.4	-	-	157	-9.6	202	14.9	172
383	[99]		254	25.6	150	-26	184	-2.7	196	3.6	189
384	[99]		281	22.1	229	4.4	215	-1.9	242	9.5	219
385	[99]		274	27.4	184	-8.2	216	7.9	225	11.6	199
386	[99]		265	9.1	223	-8.1	212	-13.7	233	-3.4	241
387	[99]		342	17	289	1.7	286	0.7	306	7.2	284
388	[99]		288	9	293	10.6	234	-12	272	3.7	262
389	[99]		304	7.9	302	7.3	267	-4.9	291	3.8	280
390	[99]		389	28	-	-	263	-6.5	326	14.1	280

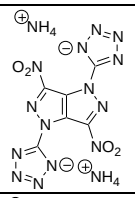
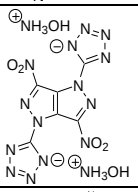
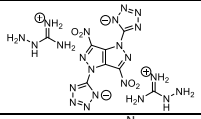
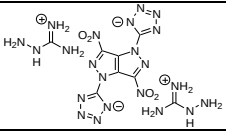
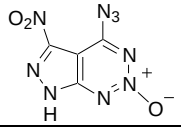
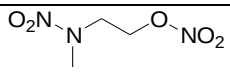
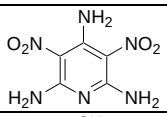
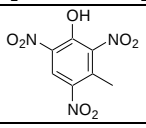
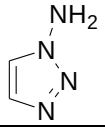
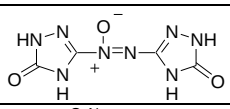
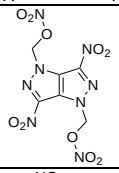
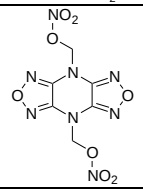
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
391	[99]		363	9.6	357	8.1	275	-19.3	332	1.2	328
392	[99]		363	14.9	418	26.1	287	-7.7	356	13.2	309
393	[99]		375	33.1	-	-	241	-4.1	308	18.5	251
394	[99]		223	13.7	115	-67.3	177	-8.7	172	-11.9	192.4
395	[99]		241	2.5	213	-10.3	228	-3.1	227	-3.5	235
396	[99]		262	-5.7	-	-	245	-13.1	254	-9.1	277
397	[99]		307	10.1	-	-	250	-10.4	278	0.7	276
398	[99]		327	-6.7	416	16.1	339	-2.9	361	3.3	349
399	[99]		323	-4	406	17.2	325	-3.4	351	4.3	336
400	[99]		305	-5.2	411	21.9	317	-1.3	344	6.7	321
401	[99]		315	9.8	-	-	265	-7.2	290	2.1	284

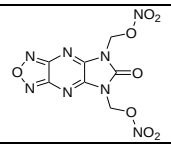
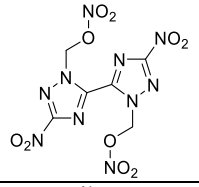
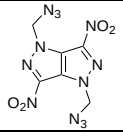
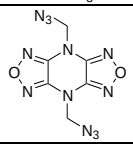
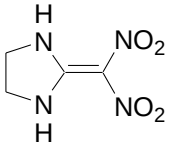
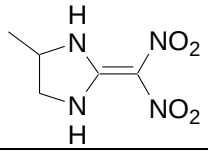
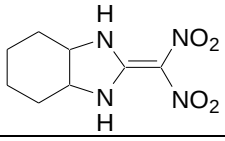
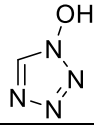
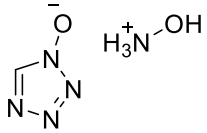
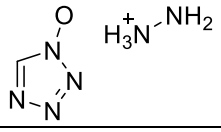
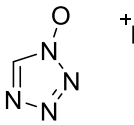
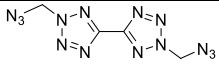
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
402	[99]		266	13.2	285	18.9	226	-2.2	259	10.8	231
403	[99]		218	25.2	185	11.9	164	0.6	189	13.8	163
404	[99]		263	11.8	296	21.6	224	-3.6	261	11.1	232
405	[99]		301	10	355	23.7	263	-3	306	11.4	271
406	[99]		246	11.4	244	10.7	210	-3.8	233	6.4	218
407	[99]		276	10.5	310	20.3	242	-2.1	276	10.5	247
408	[99]		214	21.5	130	-29.2	160	-5	168	0	168
409	[99]		245	15.9	285	27.7	205	-0.5	245	15.9	206
410	[99]		266	13.5	296	22.3	227	-1.3	263	12.5	230
411	[99]		293	8.9	355	24.8	261	-2.3	303	11.9	267
412	[99]		293	10.9	352	25.9	253	-3.2	299	12.7	261
413	[99]		264	12.5	322	28.3	221	-4.5	269	14.1	231
414	[99]		318	0.6	398	20.6	305	-3.6	340	7.1	316

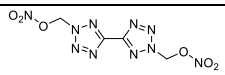
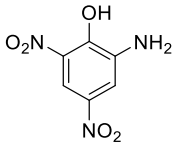
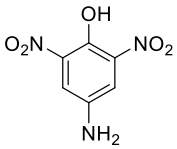
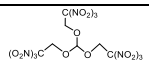
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
415	[99]		289	0.3	363	20.7	279	-3.2	310	7.1	288
416	[99]		334	-2.4	405	15.6	327	-4.6	355	3.7	342
417	[99]		297	11.4	352	25.3	252	-4.4	300	12.3	263
418	[99]		329	0.6	403	18.9	309	-5.8	347	5.8	327
419	[99]		318	0	403	21.1	301	-5.6	341	6.7	318
420	[99]		329	8.8	345	13	283	-6	319	6	300
421	[99]		369	6.5	397	13.1	326	-5.8	364	5.2	345
422	[99]		344	6.7	402	20.1	299	-7.4	348	7.8	321
423	[99]		241	22	222	15.3	183	-2.7	215	12.6	188
424	[99]		259	16.6	230	6.1	200	-8	230	6.1	216
425	[99]		264	3	353	27.5	240	-6.7	286	10.5	256
426	[99]		277	-16.2	416	22.6	270	-19.3	321	-0.3	322
427	[99]		273	8.8	312	20.2	236	-5.5	274	9.1	249
428	[99]		324	1.9	420	24.3	274	-16.1	339	6.2	318

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
429	[99]		277	9	312	19.2	237	-6.3	275	8.4	252
430	[100]		237	13.9	-	-	174	-17.2	206	1	204
431	[100]		246	15.9	-	-	178	-16.3	212	2.4	207
432	[101]		223	13.5	92	-109.8	182	-6	166	-16.3	193
433	[101]		369	-0.5	414	10.4	340	-9.1	374	0.8	371
434	[101]		379	-0.5	396	3.8	369	-3.3	381	0	381
435	[101]		458	12.4	436	8	407	1.5	434	7.6	401
436	[101]		362	11.9	399	20.1	306	-4.2	356	10.4	319
437	[101]		313	-11.5	410	14.9	341	-2.3	355	1.7	349
438	[101]		215	-6.5	360	36.4	222	-3.2	266	13.9	229
439			201	-31.8	372	28.8	254	-4.3	276	4	265
440	[101]		213	-30	402	31.1	273	-1.5	296	6.4	277
441			301	12.3	334	21	266	0.8	300	12	264

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
442	[101]		300	3	347	16.1	276	-5.4	308	5.5	291
443	[101]		269	0.4	347	22.8	255	-5.1	290	7.6	268
444	[101]		354	7.9	384	15.1	312	-4.5	350	6.9	326
445	[101]		340	-5.3	411	12.9	339	-5.6	363	1.4	358
446	[101]		357	0	419	14.8	344	-3.8	373	4.3	357
447	[101]		258	4.3	380	35	244	-1.2	294	16	247
448	[101]		246	-4.9	387	33.3	256	-0.8	296	12.8	258
449	[101]		252	-7.1	402	32.8	267	-1.1	307	12.1	270
450	[101]		296	8.4	363	25.3	261	-3.8	307	11.7	271
451	[101]		309	6.8	370	22.2	276	-4.3	318	9.4	288
452	[101]		284	7.4	370	28.9	255	-3.1	303	13.2	263
453	[102]		392	-3	343	-17.8	363	-11.3	366	-10.4	403.9
454	[103]		363	14.9	418	26.1	287	-7.7	356	13.2	309

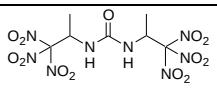
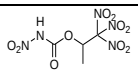
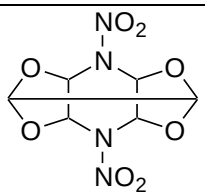
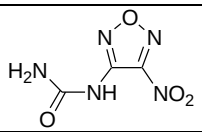
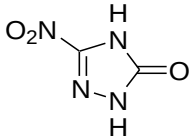
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
455	[103]		350	25.1	390	32.8	252	-4	331	20.8	262
456	[103]		302	13.9	418	37.8	255	-2	325	20	260
457	[103]		264	-18.6	364	14	262	-19.5	297	-5.4	313
458	[103]		230	-8.3	364	31.6	226	-10.2	273	8.8	249
459	[104]		363	3.2	425	17.3	317	-10.9	368	4.5	351.4
460	[26]		233	-11.2	229	-13.1	236	-9.7	233	-11.2	259
461	[38]		278	19.4	259	13.5	244	8.2	260	13.8	224
462	[38]		239	24.7	196	8.2	237	24.1	224	19.6	180
463	[24]		187	89.6	-	-	151	87.1	169	88.5	19.5
464	[24]		330	26.1	289	15.6	249	2	289	15.6	243.9
465	[105]		376	12	364	9.1	327	-1.2	356	7	331
466	[105]		373	10.5	341	2.1	321	-4	345	3.2	334

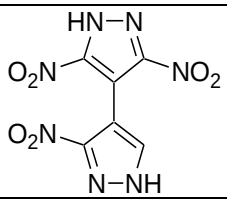
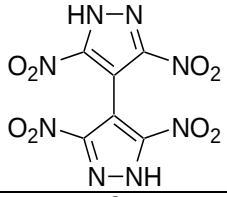
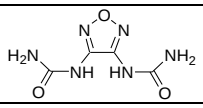
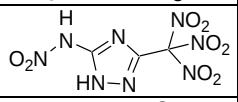
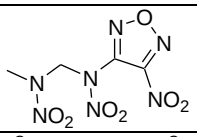
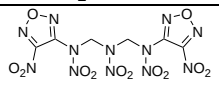
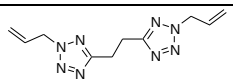
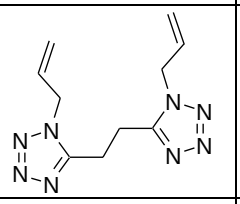
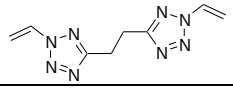
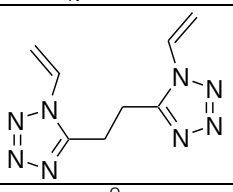
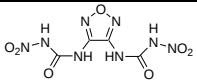
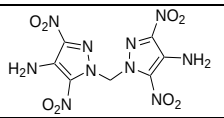
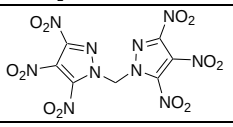
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
467	[105]		362	24.6	290	5.9	265	-3	306	10.8	273
468	[105]		387	15.5	390	16.2	321	-1.9	366	10.7	327
469	[105]		310	11	371	25.6	263	-4.9	315	12.4	276
470	[105]		289	3.8	319	12.9	238	-16.8	282	1.4	278
471	[47]		253	-13	206	-38.8	244	-17.2	234	-22.2	286
472	[47]		221	-4.1	131	-75.6	217	-6	190	-21.1	230
473	[47]		173	-2.3	-17	1141.2	164	-7.9	160	-10.6	177
474	[106]		271	0.7	354	24	265	-1.5	297	9.4	269
475	[106]		280	-18.2	366	9.6	259	-27.8	302	-9.6	331
476	[106]		241	-32.4	122	-161.5	253	-26.1	205	-55.6	319
477	[106]		250	14.8	131	-62.6	240	11.3	207	-2.9	213
478	[107]		281	15.7	-	-	230	-3	256	7.4	237

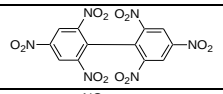
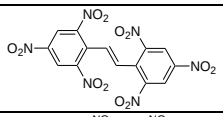
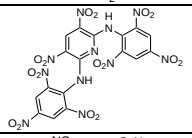
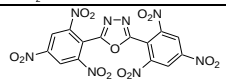
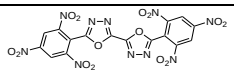
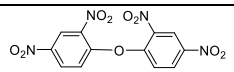
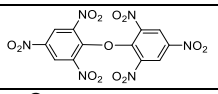
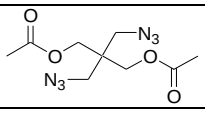
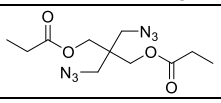
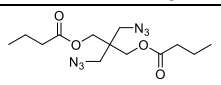
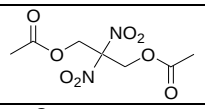
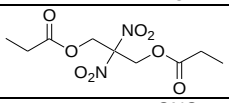
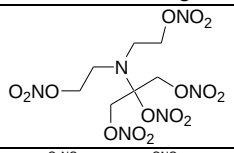
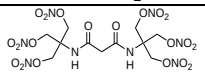
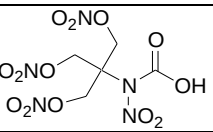
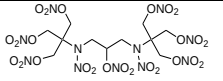
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
479	[107]		326	12.3	389	26.5	284	-0.7	333	14.1	286
480	[108]		249	34.9	146	-11	193	16.1	196	17.3	162
481	[109]		279	19.4	146	-54.1	246	8.5	224	-0.4	225
482	[110]		405	-	353	-	340	-	366	-	-

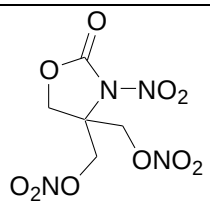
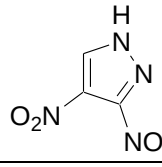
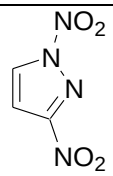
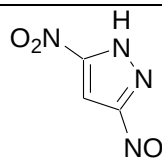
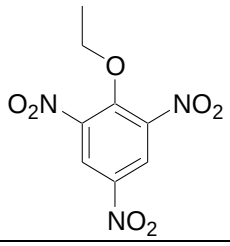
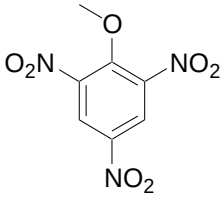
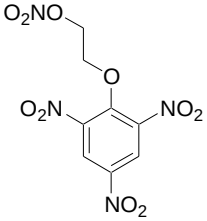
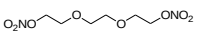
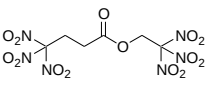
2.3.2 The detonation pressures of neutral compounds

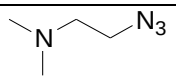
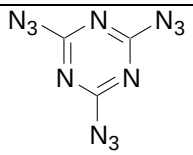
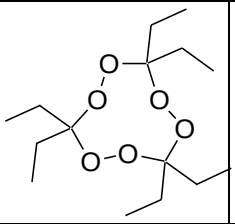
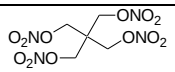
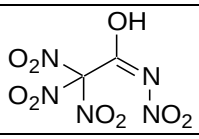
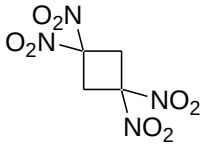
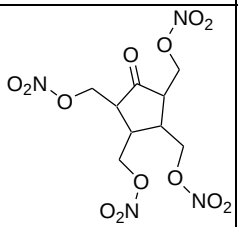
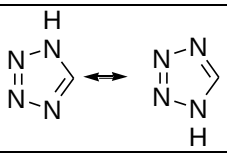
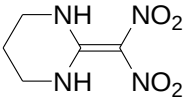
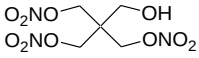
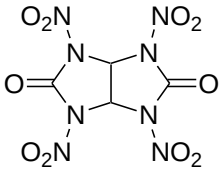
Table 53. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the neutral compounds.

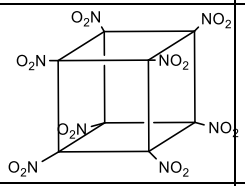
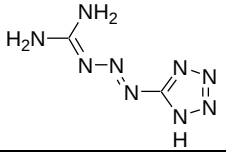
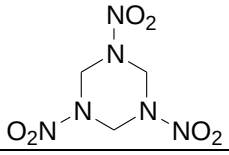
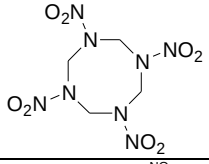
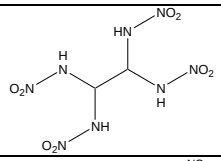
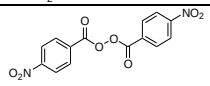
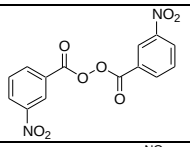
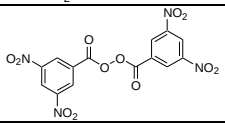
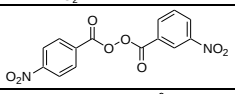
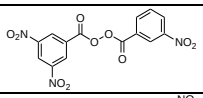
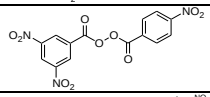
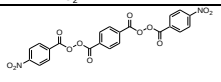
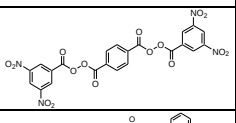
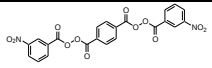
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1	[22]		328	2.1	328	2.1	326	1.5	327	1.8	321
2	[22]		259	12	345	33.9	259	12	259	12	228
3	[23] [24]		394	12.9	187	83.4	311	10.3	319	7.5	343
4	[25]		263	10.3	339	30.4	255	7.5	286	17.5	236
5	[23] [26]		351	13.1	361	15.5	300	1.7	337	9.5	305

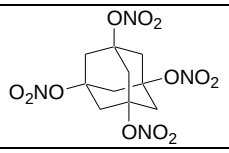
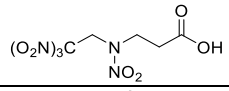
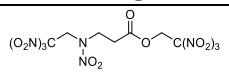
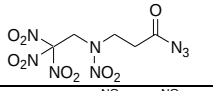
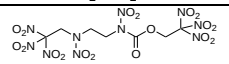
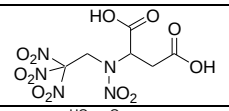
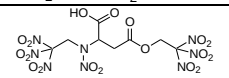
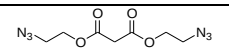
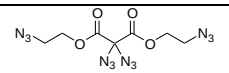
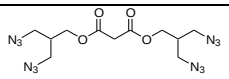
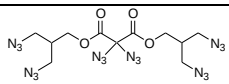
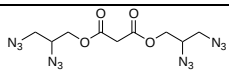
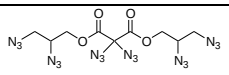
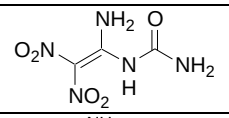
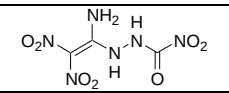
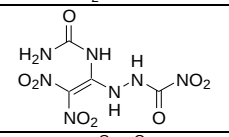
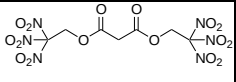
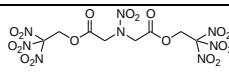
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
6	[27]		333	14.1	324	11.7	290	1.4	313	8.6	286
7	[27]		336	7.4	375	17.1	303	2.6	338	8	311
8	[25]		311	21.2	186	31.7	246	0.4	248	1.2	245
9	[28]		384	3.9	454	18.7	406	9.1	414	10.9	369
10	[29]		322	0	401	19.7	320	0.6	348	7.5	322
11	[29]		440	10.7	440	10.7	392	0.3	424	7.3	393
12	[30]		105	5.7	-	-	68	45.6	86	15.1	99
13	[30]		105	5.7	-	-	69	43.5	87	13.8	99
14	[30]		164	9.8	-	-	105	41	134	10.4	148
15	[30]		164	9.1	-	-	106	40.6	135	10.4	149
16	[25]		317	1.6	375	14.1	327	1.5	340	5.3	322
17	[31]		323	8.4	350	15.4	285	3.9	319	7.2	296
18	[31]		437	10.5	402	2.7	377	3.7	405	3.5	391

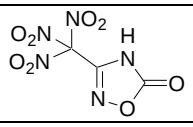
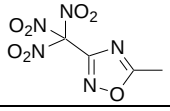
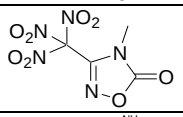
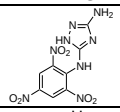
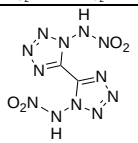
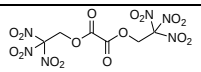
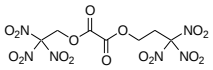
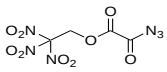
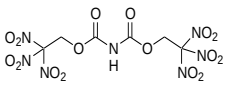
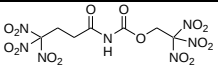
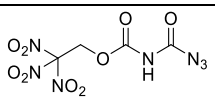
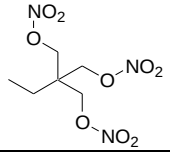
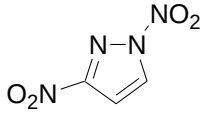
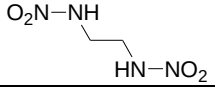
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
19	[32] [26]		270	9.6	226	8	231	5.6	242	0.8	244
20	[32]		266	8.6	181	34.3	230	5.7	226	7.5	243
21	[32]		271	7.4	240	4.6	241	4.1	251	0	251
22	[32] [33]		309	9.7	230	21.3	250	11.6	263	6.1	279
23	[32]		347	21.3	232	17.7	256	6.6	278	1.8	273
24	[34]		260	35.4	130	29.2	202	16.8	197	14.7	168
25	[34]		329	24	239	4.6	273	8.4	280	10.7	250
26	[35]		109	27.5	-64	223.4	81	2.5	28	182.1	79
27	[35]		89	19.1	-133	154.1	68	5.9	12	500	72
28	[35]		68	8.8	-191	132.5	54	14.8	-	-	62
29	[35]		154	35.1	47	112.8	122	18	108	7.4	100
30	[35]		116	35.3	-23	426.1	93	19.4	93	19.4	75
31	[36]		309	-	291	-	301	-	300	-	-
32	[36]		269	-	248	-	265	-	261	-	-
33	[36]		333	-	310	-	312	-	318	-	-
34	[36]		383	14.4	326	0.6	349	6	353	7.1	328

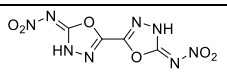
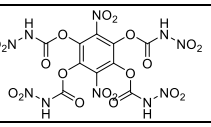
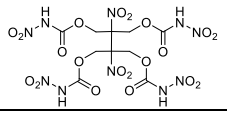
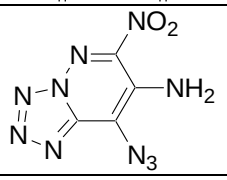
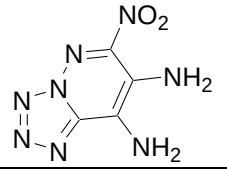
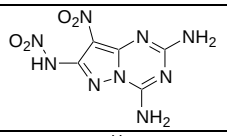
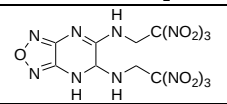
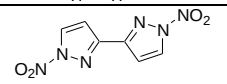
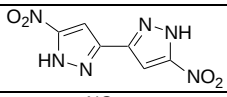
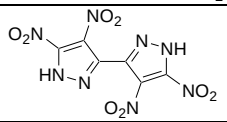
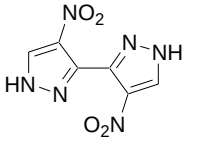
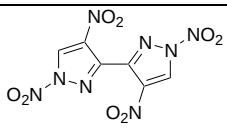
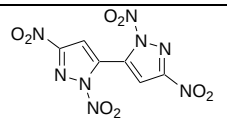
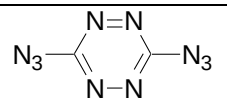
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
35	[36]		358	12.6	260	20.4	300	4.3	306	2.3	313
36	[37]		313	2.2	301	1.7	226	35.4	327	6.4	306
37	[37]		315	2.2	367	16.1	301	2.3	328	6.1	308
38	[37]		309	6.5	367	21.3	290	0.3	322	10.2	289
39	[26]		210	9	132	44.7	184	3.8	175	9.1	191
40	[38]		266	23.3	178	14.6	226	9.7	223	8.5	204
41	[38]		282	16	224	5.8	255	7.1	254	6.7	237
44	[38]		164	12.8	90	58.9	153	6.5	136	5.1	143
45	[38]		353	5.1	340	1.5	330	1.5	341	1.8	335

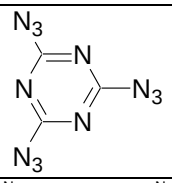
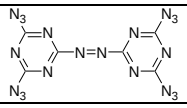
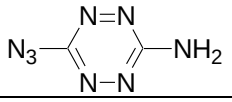
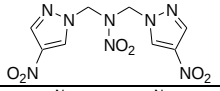
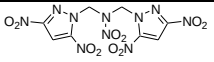
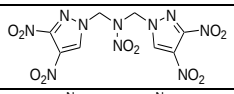
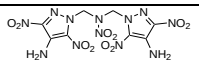
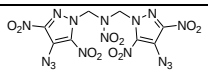
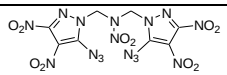
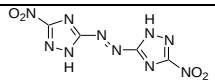
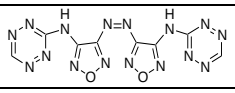
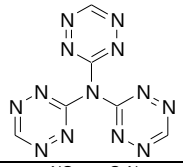
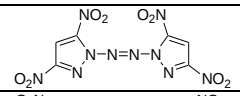
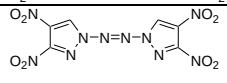
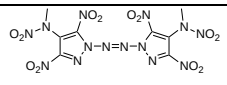
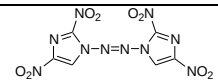
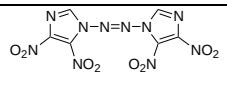
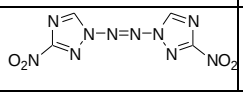
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
46	[24]		63	15.9	-	-	49	49	56	30.4	73
47	[24] [40]		309	26.9	-	-	237	4.6	273	17.2	226
49	[42]		79	44.3	-389	129.3	69	65.2	-120	195	114
51	[44]		336	6	298	6	328	3.7	321	1.6	316
54	[38]		392	41.3	307	25.1	395	41.8	365	37	230
55	[38]		359	5.6	344	1.5	354	4.2	352	3.7	339
56	[38]		227	10.6	177	14.7	216	6	207	1.9	203
58	[38]		221	5	-	-	184	14.1	202	4	210
59	[47]		230	0.9	131	77.1	226	2.7	196	18.4	232
60	[38]		241	5	248	2	237	6.8	242	4.5	253
61	[38]		479	16.1	370	8.6	434	7.4	428	6.1	402

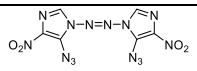
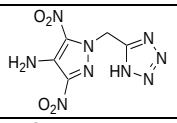
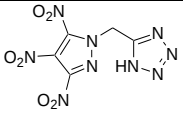
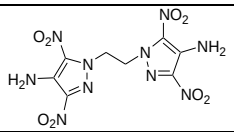
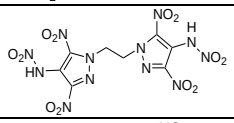
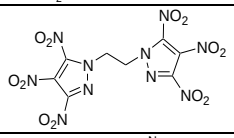
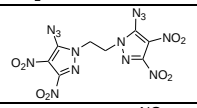
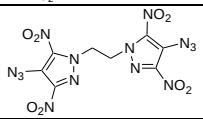
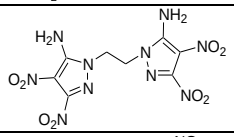
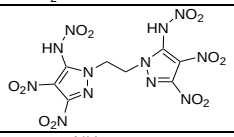
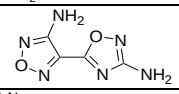
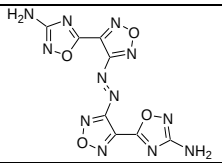
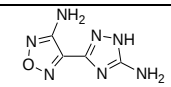
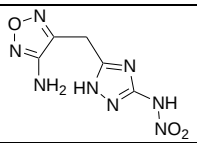
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
62	[38]		441	4.3	377	11.9	420	0.5	413	2.2	422
63	[38]		326	3.7	-	-	259	30.5	292	15.8	338
64	[26]		341	0.3	378	10.1	340	0	353	3.7	340
65	[38]		398	4.3	388	1.8	384	0.8	390	2.3	381
66	[38]		345	13.6	445	11.9	421	6.9	404	3	392
67	[48]		194	33	-64	303.1	137	5.1	134	3	130
68	[48]		194	33	-64	303.1	137	5.1	134	3	130
69	[48]		252	20.6	94	112.8	202	1	183	9.3	200
70	[48]		211	57.3	-64	240.6	148	39.2	148	39.2	90
71	[48]		233	22.7	25	620	178	1.1	145	24.1	180
72	[48]		230	26.1	25	580	176	3.4	144	18.1	170
73	[48]		128	29.7	-116	177.6	104	13.5	58	55.2	90
74	[48]		160	18.8	4	3150	138	5.8	101	28.7	130
75	[48]		126	28.6	-116	177.6	138	34.8	74	21.6	90

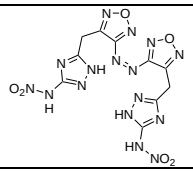
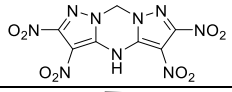
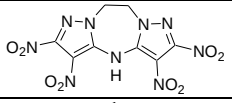
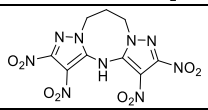
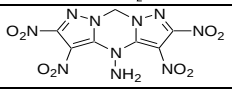
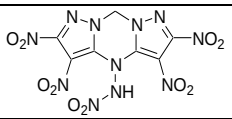
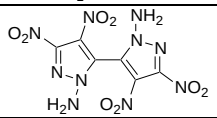
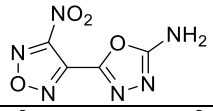
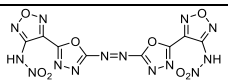
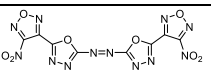
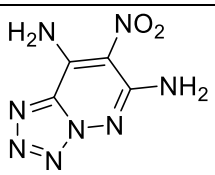
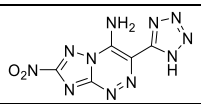
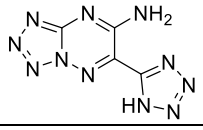
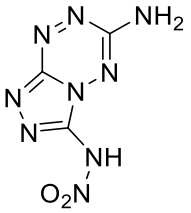
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
77	[49]		253	9.5	156	46.8	234	2.1	214	7	229
78	[50]		313	11.5	299	7.4	287	3.5	300	7.7	277
79	[50]		338	13.6	351	16.8	313	6.7	334	12.6	292
80	[50]		310	6.1	356	18.3	294	1	320	9.1	291
81	[50]		428	14.7	384	4.9	387	5.7	400	8.8	365
82	[50]		291	19.6	266	12	248	5.6	268	12.7	234
83	[50]		306	19.3	323	23.5	270	8.5	300	17.7	247
84	[51]		162	27.2	22	436.4	119	0.8	101	16.8	118
85	[51]		208	18.3	217	21.7	174	2.3	200	15	170
86	[51]		148	8.1	66	142.4	129	24	114	40.4	160
87	[51]		196	7.7	195	7.2	178	1.7	190	4.7	181
88	[51]		141	15.6	135	11.9	120	0.8	132	9.8	119
89	[51]		209	14.8	260	31.5	183	2.7	217	18	178
90	[52]		317	3.8	308	1	294	3.7	306	0.3	305
91	[52]		307	4.6	385	23.9	320	8.4	337	13.1	293
92	[52]		260	11.2	344	32.8	262	11.8	289	20.1	231
94	[53]		345	28.7	309	20.4	306	19.6	320	23.1	246
95	[53]		360	33.3	323	25.7	319	24.8	334	28.1	240

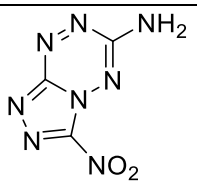
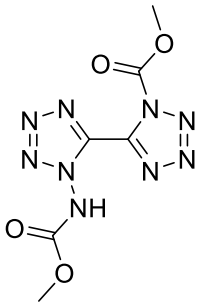
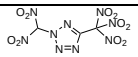
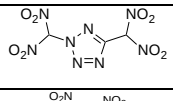
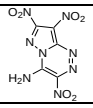
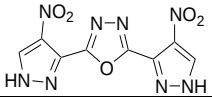
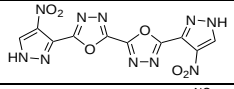
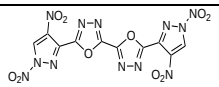
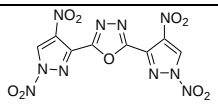
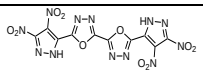
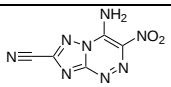
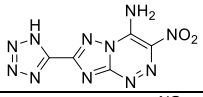
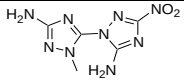
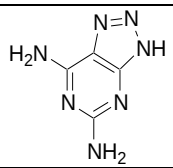
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
96	[54]		407	18.7	372	11	430	23	403	17.9	331
97	[54]		357	3.1	382	9.4	339	2.1	359	3.6	346
98	[54]		346	0	328	5.5	349	0.9	341	1.5	346
105	[55]		296	6.1	256	8.6	256	8.6	269	3.3	278
109	[56]		418	9.1	557	18.1	436	4.6	470	3	456
113	[57]		392	27	292	2.1	349	18.1	344	16.9	286
114	[57]		333	18.9	309	12.6	299	9.7	314	14	270
115	[57]		335	16.4	344	18.6	304	7.9	328	14.6	280
116	[57]		415	42.9	314	24.5	370	35.9	366	35.2	237
117	[57]		279	13.6	319	24.5	260	7.3	270	10.7	241
118	[57]		233	18.9	355	46.8	215	12.1	268	29.5	189
119	[26]		216	9.3	180	8.9	210	6.7	202	3	196
120	[37]		315	2.9	367	16.6	301	1.7	328	6.7	306
121	[26]		292	2.4	319	6.3	309	3.2	307	2.6	299

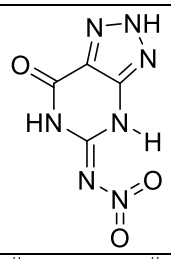
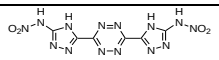
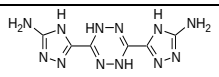
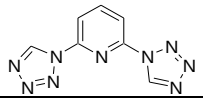
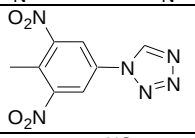
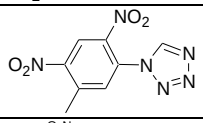
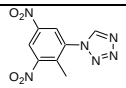
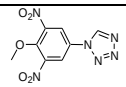
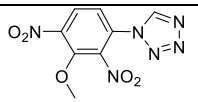
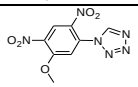
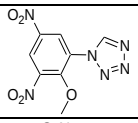
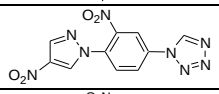
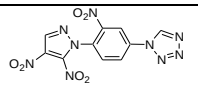
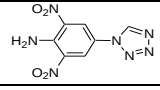
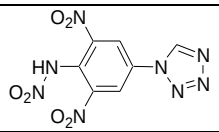
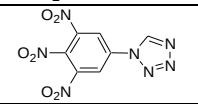
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
123	[58]		387	1	343	14	375	4.3	368	6.3	391
129	[60]		278	-	293	-	250	-	274	-	-
130	[60]		340	-	276	-	314	-	310	-	-
131	[61]		344	8.4	403	21.8	291	8.2	346	9	315
132	[61]		314	11.8	307	9.8	258	7.4	293	5.5	277
136	[62]		336	5.1	345	7.5	292	9.2	324	1.5	319
138	[63]		310	3.5	375	14.4	315	1.9	333	3.6	321
139	[64]		330	12.7	244	18	265	8.7	280	2.9	288
140	[64]		301	13	244	7.4	245	6.9	263	0.4	262
141	[64]		344	6.1	375	13.9	293	10.2	337	4.2	323
142	[64]		308	12.7	244	10.2	250	7.6	267	0.7	269
143	[64]		378	8.7	375	8	327	5.5	360	4.2	345
144	[64]		380	6.8	375	5.6	332	6.6	362	2.2	354
145	[40]		271	2.2	-	-	267	0.7	269	1.5	265

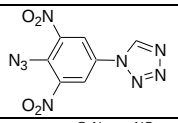
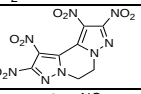
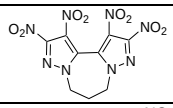
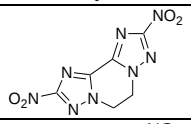
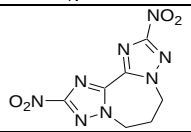
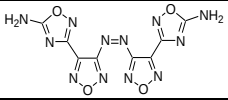
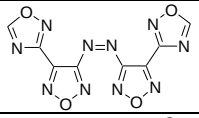
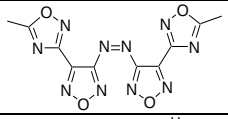
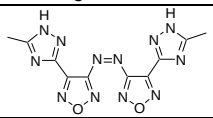
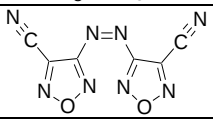
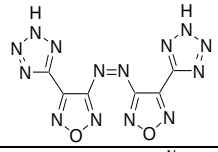
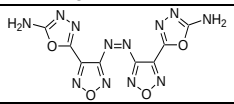
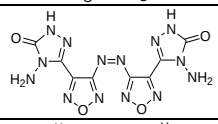
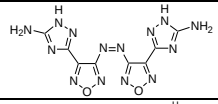
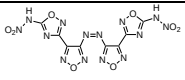
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
146	[40]		313	14.1	-	-	258	4.3	286	5.9	269
147	[40]		301	12.3	-	-	250.5	5.4	275.8	4.3	264
148	[40]		274	1.5	-	-	250	8	262	3.1	270
150	[65]		280	10.4	242	3.7	236	6.4	253	0.8	251
151	[65]		343	9.9	345	10.4	299	3.3	329	6.1	309
152	[65]		343	9.6	345	10.1	299	3.7	329	5.8	310
153	[65]		352	1.4	361	3.9	331	4.8	348	0.3	347
154	[65]		386	9.1	415	15.4	333	5.4	378	7.1	351
155	[65]		386	8.8	415	15.2	333	5.7	378	6.9	352
156	[66]		365	4.9	440	21.1	323	7.4	376	7.7	347
162	[67]		290	13.4	325	22.8	236	6.4	284	11.6	251
165	[67]		320	17.5	-	-	238	10.9	279	5.4	264
166	[68]**4**		368	5.4	403	13.6	326	6.7	366	4.9	348
167	[68]**5**		372	5.6	403	12.9	330	6.4	368	4.6	351
168	[68]**6**		377	8.2	402	13.9	332	4.2	370	6.5	346
169	[68]**7**		385	7.5	403	11.7	333	6.9	374	4.8	356
170	[68]**8**		376	6.6	403	12.9	328	7	369	4.9	351
171	[68]		362	7.5	440	23.9	311	7.7	371	9.7	335

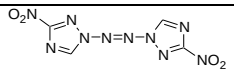
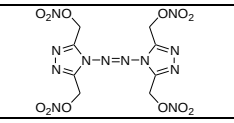
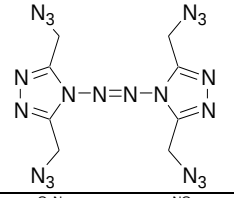
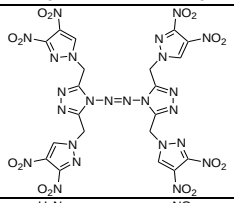
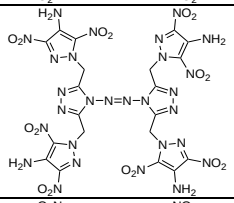
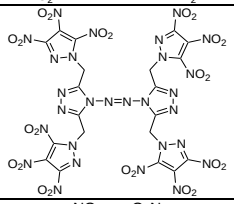
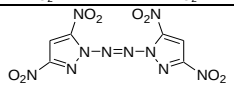
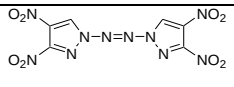
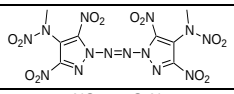
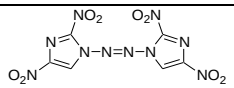
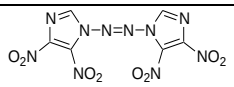
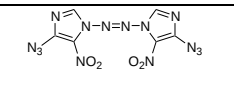
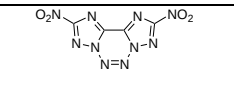
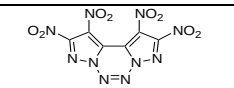
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
172	[68]		342	8.2	418	24.9	285	10.2	348	9.8	314
173	[69]		329	8.8	345	13	283	6	319	6	300
174	[69]		369	6.5	397	13.1	326	5.8	364	5.2	345
183	[70]		299	6.7	313	10.9	268	4.1	293	4.8	279
184	[70]		357	3.9	384	10.7	331	3.6	357	3.9	343
186	[70]		382	10.7	370	7.8	329	3.6	360	5.3	341
187	[70]		347	3.7	383	12.8	311	7.4	347	3.7	334
188	[70]		338	8.3	383	19.1	292	6.2	338	8.3	310
189	[70]		292	6.5	313	12.8	263	3.8	289	5.5	273
190	[70]		353	4.5	384	12.2	327	3.1	355	5.1	337
191	[71]		265	23	240	15	198	3	234	12.8	204
193	[71]		282	23.4	308	29.9	204	5.9	265	18.5	216
194	[71]		261	17.6	92	133.7	193	11.4	182	18.1	215
199	[73]		258	3.5	275	9.5	238	4.6	257	3.1	249

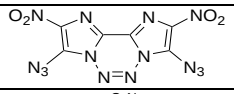
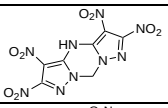
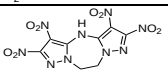
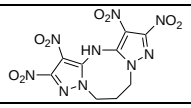
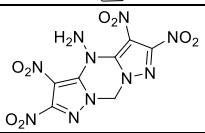
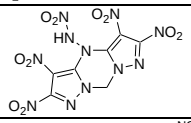
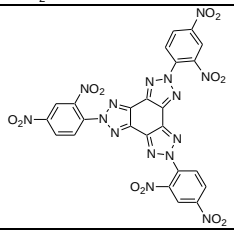
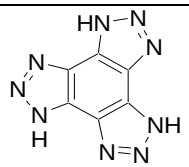
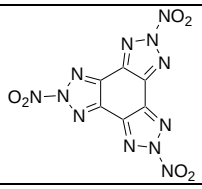
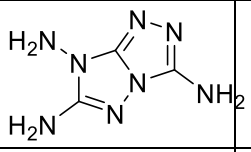
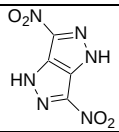
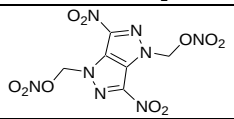
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
200	[73]		277	6.1	320	18.8	248	4.8	282	7.8	260
210	[75]		373	8	352	2.6	323	6.2	349	1.7	343
211	[75]		323	9.6	313	6.7	277	5.4	304	3.9	292
212	[75]		297	8.4	276	1.4	258	5.4	277	1.8	272
216	[75]		333	11.1	361	18	285	3.9	326	9.2	296
217	[75]		412	5.8	396	2	366	6	391	0.8	388
219	[76]		318	2.5	391	20.7	299	3.7	336	7.7	310
220	[77]		313	14.1	363	25.9	260	3.5	312	13.8	269
221	[77]		355	17.5	352	16.8	277	5.8	328	10.7	293
222	[77]		404	13.1	379	7.4	299	17.4	346	1.4	351
223	[78]		340	10.9	307	1.3	271	11.8	306	1	303
231	[80]		364	9.9	357	8.1	276	18.8	332	1.2	328
232	[80]		332	22.9	-	-	246	4.1	289	11.4	256
239	[81]		324	3.4	411	23.8	295	6.1	343	8.7	313

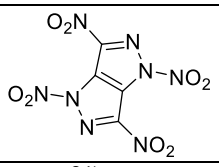
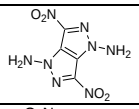
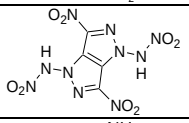
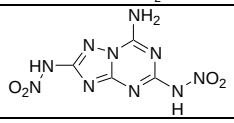
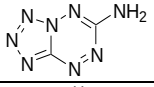
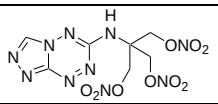
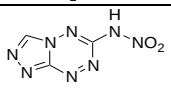
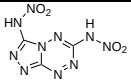
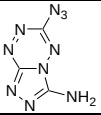
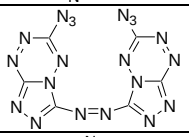
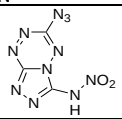
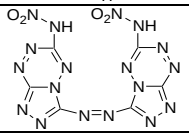
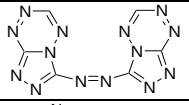
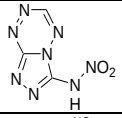
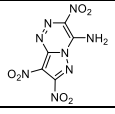
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
240	[81]		352	3.7	416	18.5	314	8	361	6.1	339
241	[82]		262	23.3	203	1	212	5.2	226	11.1	201
254	[85]		420	25.7	407	23.3	405	23	411	24.1	312
258	[85]		421	10.5	454	17	406	7.1	427	11.7	377
261	[86]		383	14.9	389	16.2	329	0.9	367	11.2	326
262	[87]		309	12.2	222	22.3	250	8.6	260	4.4	271.4
263	[87]		325	18.4	206	28.8	246	7.8	259	2.4	265.3
264	[87]		395	13.3	300	14.1	252	35.8	316	8.3	342.3
265	[87]		388	14.1	331	0.7	329	1.3	349	4.5	333.3
266	[87]		382	14.3	300	9.2	263	24.5	315	4	327.5
267	[88]		301	23.4	309	25.4	225	2.4	263	12.4	230.5
268	[88]		342	20.9	357	24.3	260	4	320	15.5	270.4
269	[89]		316	19.6	222	14.4	244	4.1	261	2.7	254
270	[90]		241	24.6	-	-	161	12.8	201	9.7	181.6

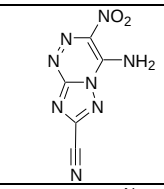
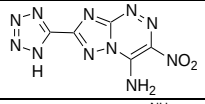
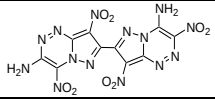
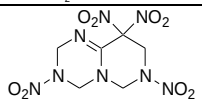
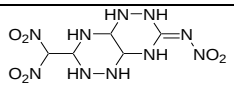
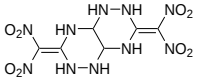
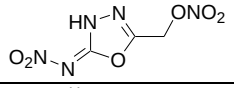
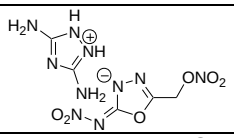
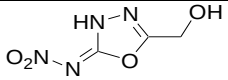
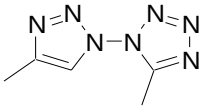
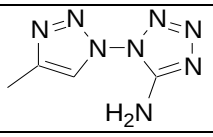
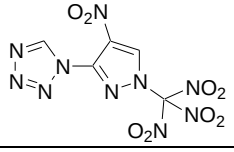
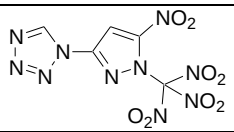
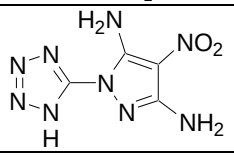
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
271	[90]		354	8.1	312	4.3	293	11.1	320	1.7	325.4
272	[91]		347	8.6	400	20.8	341	7	363	12.7	317
273	[91]		246	48	-	-	263	38.4	254	43.3	364
283	[92]		247	30.4	-	-	157	9.6	202	14.9	172
284	[92]		255	20	150	36	197	3.6	201	1.5	204
285	[92]		245	20.4	150	30	190	2.6	195	0	195
286	[92]		242	21.1	150	27.3	187	2.1	193	1	191
287	[92]		274	27.4	168	18.5	216	7.9	219	9.1	199
288	[92]		247	20.2	168	17.3	195	1	203	3	197
289	[92]		257	18.3	168	25	205	2.4	210	0	210
290	[92]		260	18.8	168	25.6	207	1.9	212	0.5	211
291	[92]		254	25.6	150	26	184	2.7	196	3.6	189
292	[92]		281	22.1	229	4.4	215	1.9	242	9.5	219
293	[92]		265	9.1	223	8.1	212	13.7	233	3.4	241
294	[92]		304	7.9	302	7.3	267	4.9	291	3.8	280
295	[92]		342	17	289	1.7	286	0.7	306	7.2	284

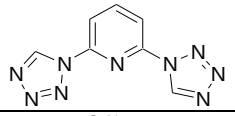
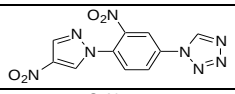
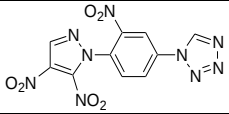
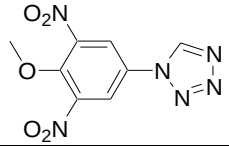
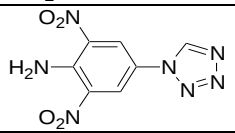
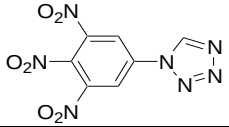
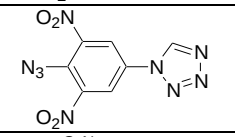
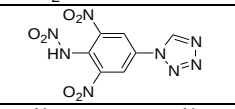
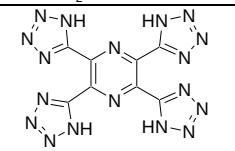
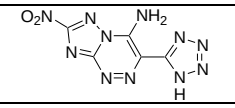
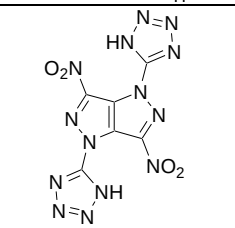
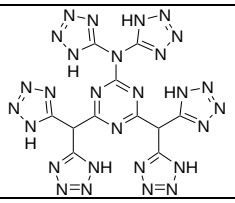
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
296	[92]		288	9	293	10.6	234	12	272	3.7	262
301	[94]		320	12.2	302	7	267	5.2	296	5.1	281
302	[94]		277	13	264	8.7	232	3.9	258	6.6	241
303	[94]		307	21.5	296	18.6	232	3.9	278	13.3	241
304	[94]		261	24.5	238	17.2	195	1	231	14.7	197
305	[95]		359	21.2	283	0	256	10.5	299	5.4	283
306	[95]		312	27.2	262	13.4	216	5.1	263	13.7	227
307	[95]		318	28.9	172	31.4	212	6.6	234	3.4	226
308	[95]		307	14	137	92.7	211	25.1	218	21.1	264
309	[95]		258	15.5	311	29.9	202	7.9	257	15.2	218
310	[95]		311	10	389	28	239	17.2	313	10.5	280
311	[95]		350	22	257	6.2	249	9.6	285	4.2	273
312	[95]		272	17.6	286	21.7	217	3.2	258	13.2	224
313	[95]		300	12.7	262	0	228	14.9	263	0.4	262
314	[95]		520	11.3	372	23.9	418	10.3	437	5.5	461

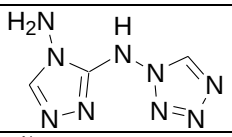
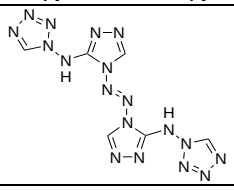
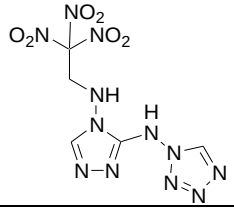
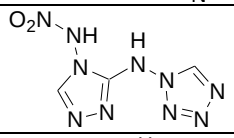
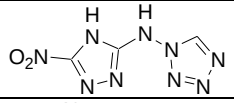
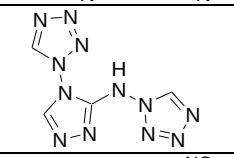
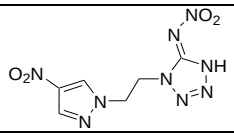
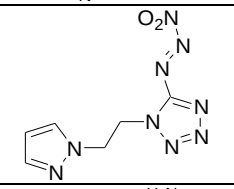
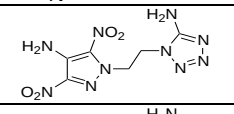
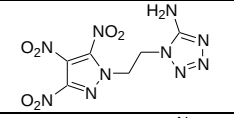
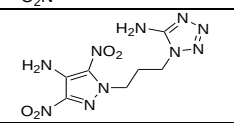
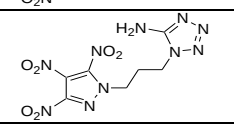
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
315	[95]		362	7.5	440	23.9	311	7.7	371	9.7	335
316	[95]		327	12.8	384	25.8	280	1.8	330	13.6	285
317	[95]		231	9.5	-	-	194	7.7	212	1.4	209
318	[95]		361	25.5	303	11.2	254	5.9	306	12.1	269
319	[95]		322	15.2	322	15.2	261	4.6	302	9.6	273
320	[95]		460	29.8	364	11.3	306	5.6	377	14.3	323
321	[95]		368	5.4	403	13.6	326	6.7	366	4.9	348
322	[95]		372	5.6	403	12.9	330	6.4	368	4.6	351
323	[95]		377	8.2	402	13.9	330	4.8	370	6.5	346
324	[95]		385	7.5	403	11.7	333	6.9	374	4.8	356
325	[95]		376	33.2	403	37.7	328	23.5	369	32	251
326	[95]		342	8.2	418	24.9	293	7.2	351	10.5	314
327	[96]		431	11.8	464	18.1	345	10.1	413	8	380
328	[96]		427	3	414	6.3	353	24.6	398	10.6	440

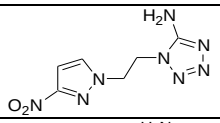
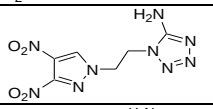
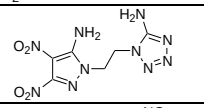
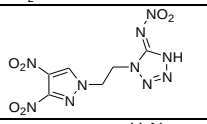
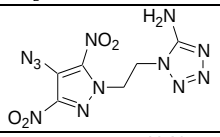
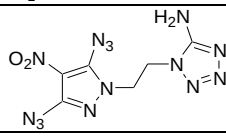
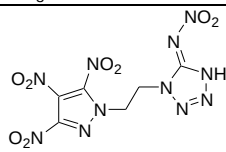
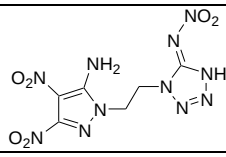
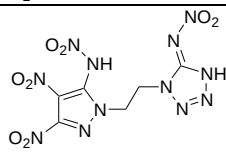
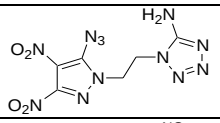
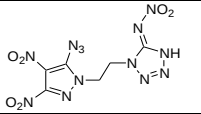
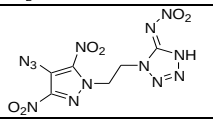
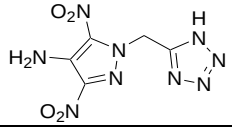
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
329	[96]		417	12	436	15.8	330	11.2	394	6.9	367
330	[96]		375	8.5	352	2.6	324	5.9	350	2	343
331	[96]		323	9.6	313	6.7	277	5.4	304	3.9	292
332	[96]		297	8.4	276	1.4	258	5.4	277	1.8	272
333	[96]		333	11.1	361	18	285	3.9	326	9.2	296
334	[96]		413	6.1	396	2	367	5.7	392	1	388
336	[96]		274	27.4	154	29.2	180	10.6	203	2	199
337	[96]		302	35.8	-	-	153	26.8	228	14.9	194
338	[96]		411	24.1	425	26.6	292	6.8	376	17	312
339	[96]		273	5.1	-	-	217	19.4	245	5.7	259
340	[96]		339	19.2	363	24.5	305	10.2	336	18.5	274
341	[96]		376	12	364	9.1	327	1.2	356	7	331

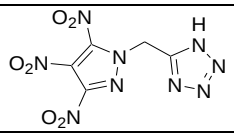
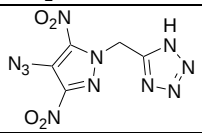
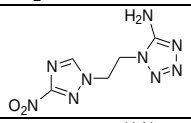
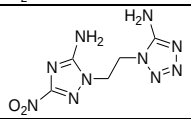
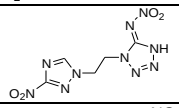
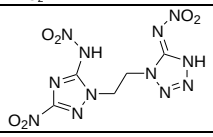
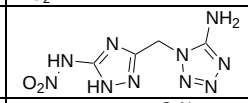
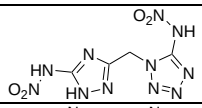
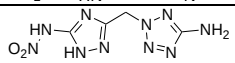
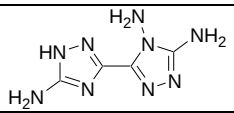
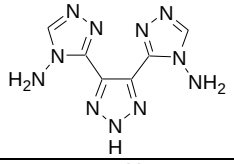
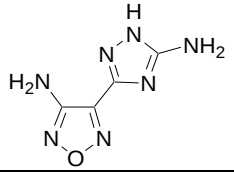
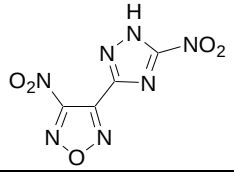
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
342	[96]		448	8.7	462	11.5	414	1.2	441	7.3	409
343	[96]		341	0.6	380	10.8	318	6.6	346	2	339
344	[96]		412	1.5	471	11.3	405	3.2	429	2.6	418
346	[96]		333	2.7	416	17.8	315	8.6	355	3.7	342
347	[96]		292	7.5	-	-	250	8	271	0.4	270
350	[96]		337	12.8	325	9.5	302	2.6	321	8.4	294
351	[96]		324	6.2	416	26.9	293	3.8	344	11.6	304
352	[96]		390	1.8	487	21.4	379	1.1	419	8.6	383
355	[96]		312	8.7	-	-	260	9.6	286	0.3	285
356	[96]		381	20.7	-	-	283	6.7	332	9	302
357	[96]		371	2.2	494	26.5	333	9	399	9	363
358	[96]		404	1.5	460	13.5	192	107.3	352	13.1	398
359	[96]		423	17.7	-	-	298	16.8	360	3.3	348
360	[96]		344	3.5	416	20.2	306	8.5	355	6.5	332
361	[96]		404	10.9	389	7.5	307	17.3	367	1.9	360

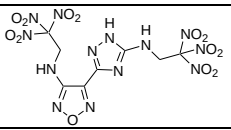
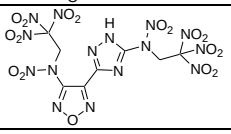
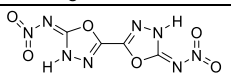
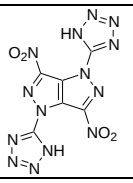
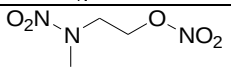
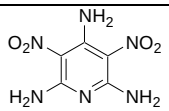
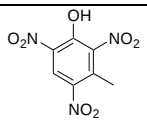
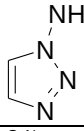
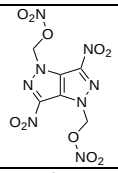
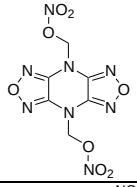
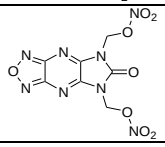
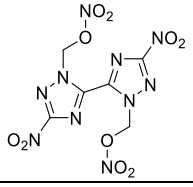
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
363	[96]		322	28.3	309	25.2	240	3.8	290	20.3	231
364	[96]		343	21.3	357	24.4	264	2.3	321	15.9	270
365	[96]		347	9.5	336	6.5	275	14.2	319	1.6	314
366	[96]		356	4.9	321	5.5	329	2.9	335	1.1	338.7
367	[96]		230	27.8	340	13.5	286	2.8	285	3.2	294
368	[96]		268	31.3	352	0	334	5.4	318	10.7	352
370	[98]		361	3.1	359	2.5	357	2	359	2.5	349.9
374	[98]		286	12.3	348	7.7	279	15.1	304	5.7	321.2
376	[98]		320	14.9	277	1.7	288	5.5	295	7.7	272.2
377	[99]		203	20.7	-	-	151	62.3	177	38.4	245
378	[99]		219	7.3		-	181	12.2	200	1.5	203
379	[99]		370	8.1	435	21.8	330	3	378	10.1	340
380	[99]		357	10.4	435	26.4	321	0.3	371	13.7	320
381	[99]		288	10.1	310	16.5	180	43.9	259	0	259

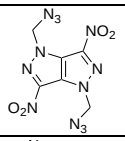
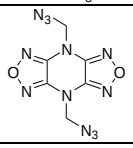
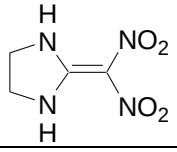
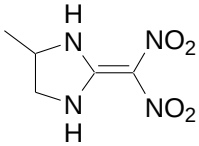
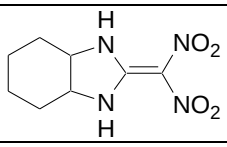
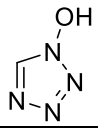
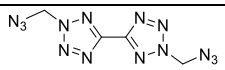
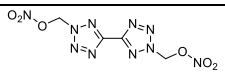
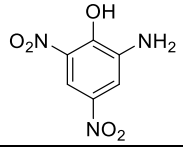
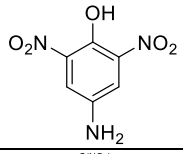
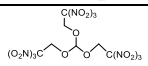
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
382	[99]		247	30.4	-	-	157	9.6	202	14.9	172
383	[99]		254	25.6	150	26	184	2.7	196	3.6	189
384	[99]		281	22.1	229	4.4	215	1.9	242	9.5	219
385	[99]		274	27.4	184	8.2	216	7.9	225	11.6	199
386	[99]		265	9.1	223	8.1	212	13.7	233	3.4	241
387	[99]		342	17	289	1.7	286	0.7	306	7.2	284
388	[99]		288	9	293	10.6	234	12	272	3.7	262
389	[99]		304	7.9	302	7.3	267	4.9	291	3.8	280
390	[99]		389	28	-	-	263	6.5	326	14.1	280
391	[99]		363	9.6	357	8.1	275	19.3	332	1.2	328
392	[99]		363	14.9	418	26.1	287	7.7	356	13.2	309
393	[99]		375	33.1	-	-	241	4.1	308	18.5	251

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
396	[99]		262	5.7	-	-	245	13.1	254	9.1	277
397	[99]		307	10.1	-	-	250	10.4	278	0.7	276
398	[99]		327	6.7	416	16.1	339	2.9	361	3.3	349
399	[99]		323	4	406	17.2	325	3.4	351	4.3	336
400	[99]		305	5.2	411	21.9	317	1.3	344	6.7	321
401	[99]		315	9.8	-	-	265	7.2	290	2.1	284
402	[99]		266	13.2	285	18.9	226	2.2	259	10.8	231
403	[99]		218	25.2	185	11.9	164	0.6	189	13.8	163
404	[99]		263	11.8	296	21.6	224	3.6	261	11.1	232
405	[99]		301	10	355	23.7	263	3	306	11.4	271
406	[99]		246	11.4	244	10.7	210	3.8	233	6.4	218
407	[99]		276	10.5	310	20.3	242	2.1	276	10.5	247

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
408	[99]		214	21.5	130	29.2	160	5	168	0	168
409	[99]		245	15.9	285	27.7	205	0.5	245	15.9	206
410	[99]		266	13.5	296	22.3	227	1.3	263	12.5	230
411	[99]		293	8.9	355	24.8	261	2.3	303	11.9	267
412	[99]		293	10.9	352	25.9	253	3.2	299	12.7	261
413	[99]		264	12.5	322	28.3	221	4.5	269	14.1	231
414	[99]		318	0.6	398	20.6	305	3.6	340	7.1	316
415	[99]		289	0.3	363	20.7	279	3.2	310	7.1	288
416	[99]		334	2.4	405	15.6	327	4.6	355	3.7	342
417	[99]		297	11.4	352	25.3	252	4.4	300	12.3	263
418	[99]		329	0.6	403	18.9	309	5.8	347	5.8	327
419	[99]		318	0	403	21.1	301	5.6	341	6.7	318
420	[99]		329	8.8	345	13	283	6	319	6	300

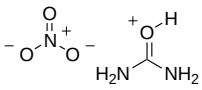
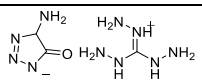
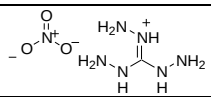
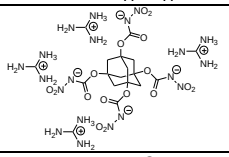
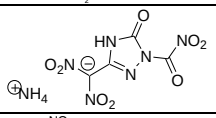
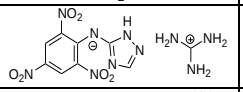
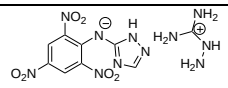
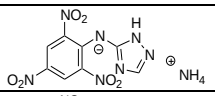
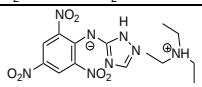
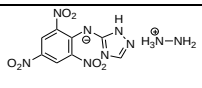
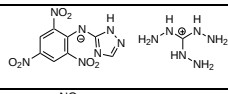
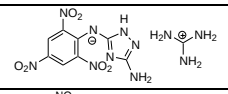
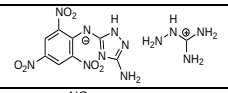
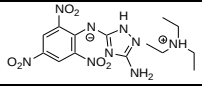
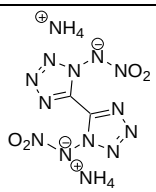
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
421	[99]		369	6.5	397	13.1	326	5.8	364	5.2	345
422	[99]		344	6.7	402	20.1	299	7.4	348	7.8	321
423	[99]		241	22	222	15.3	183	2.7	215	12.6	188
424	[99]		259	16.6	230	6.1	200	8	230	6.1	216
425	[99]		264	3	353	27.5	240	6.7	286	10.5	256
426	[99]		277	16.2	416	22.6	270	19.3	321	0.3	322
427	[99]		273	8.8	312	20.2	236	5.5	274	9.1	249
428	[99]		324	1.9	420	24.3	274	16.1	339	6.2	318
429	[99]		277	9	312	19.2	237	6.3	275	8.4	252
430	[100]		237	13.9	-	-	174	17.2	206	1	204
431	[100]		246	15.9	-	-	178	16.3	212	2.4	207
432	[101]		223	13.5	92	109.8	182	6	166	16.3	193
433	[101]		369	0.5	414	10.4	340	9.1	374	0.8	371

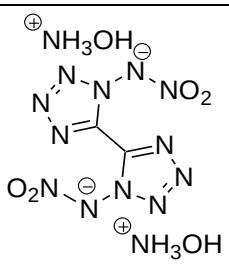
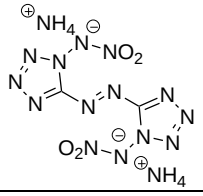
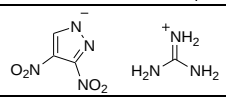
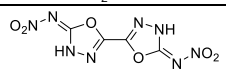
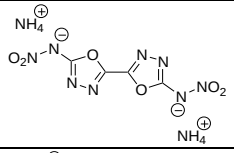
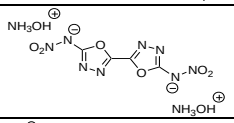
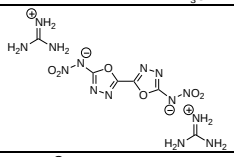
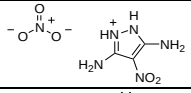
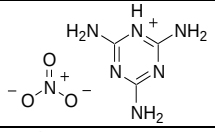
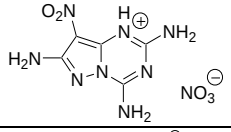
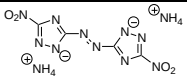
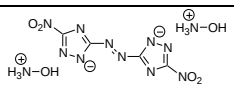
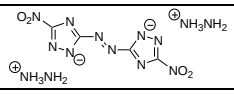
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
434	[101]		379	0.5	396	3.8	369	3.3	381	0	381
435	[101]		458	12.4	436	8	407	1.5	434	7.6	401
453	[102]		392	3	343	17.8	363	11.3	366	10.4	403.9
454	[103]		363	14.9	418	26.1	287	7.7	356	13.2	309
460	[26]		233	11.2	229	13.1	236	9.7	233	11.2	259
461	[38]		278	19.4	259	13.5	244	8.2	260	13.8	224
462	[38]		239	24.7	196	8.2	237	24.1	224	19.6	180
463	[24]		187	89.6	-	-	151	87.1	169	88.5	19.5
465	[105]		376	12	364	9.1	327	1.2	356	7	331
466	[105]		373	10.5	341	2.1	321	4	345	3.2	334
467	[105]		362	24.6	290	5.9	265	3	306	10.8	273
468	[105]		387	15.5	390	16.2	321	1.9	366	10.7	327

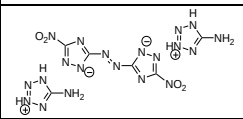
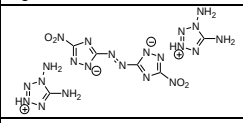
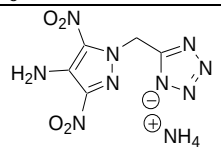
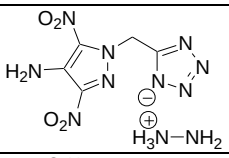
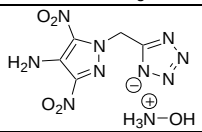
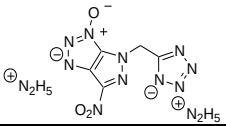
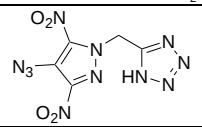
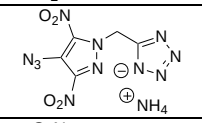
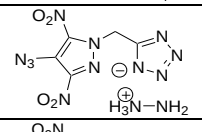
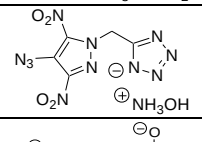
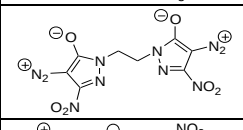
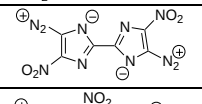
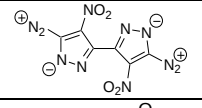
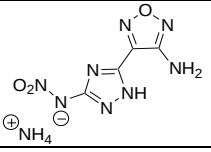
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
469	[105]		310	11	371	25.6	263	4.9	315	12.4	276
470	[105]		289	3.8	319	12.9	238	16.8	282	1.4	278
471	[47]		253	13	206	38.8	244	17.2	234	22.2	286
472	[47]		221	4.1	131	75.6	217	6	190	21.1	230
473	[47]		173	2.3	-17	1141.2	164	7.9	160	10.6	177
474	[106]		271	0.7	354	24	265	1.5	297	9.4	269
478	[107]		281	15.7	-	-	230	3	256	7.4	237
479	[107]		326	12.3	389	26.5	284	0.7	333	14.1	286
480	[108]		249	34.9	146	11	193	16.1	196	17.3	162
481	[109]		279	19.4	146	54.1	246	8.5	224	0.4	225
482	[110]		405	-	353	-	340	-	366	-	-

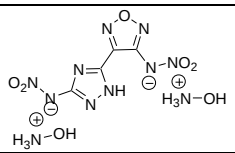
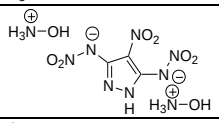
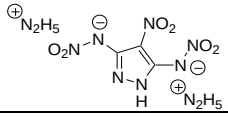
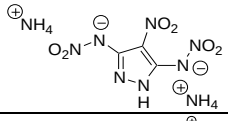
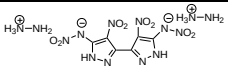
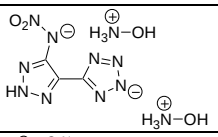
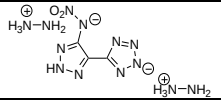
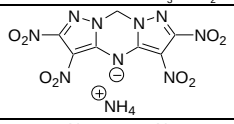
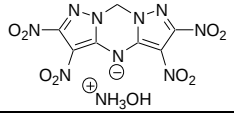
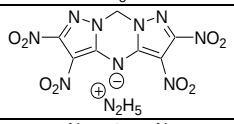
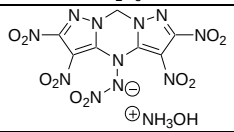
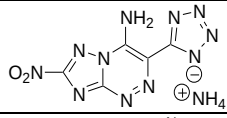
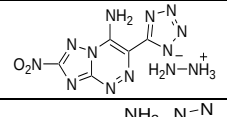
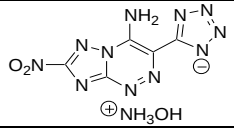
2.3.3 The detonation pressures of ionic compounds

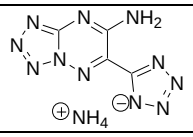
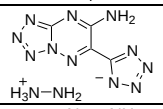
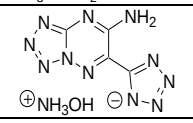
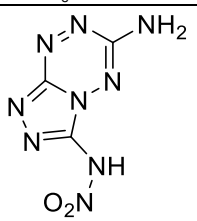
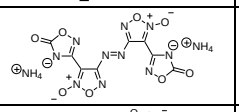
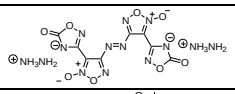
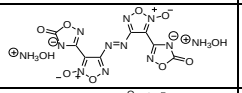
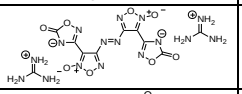
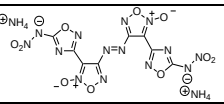
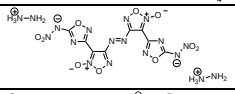
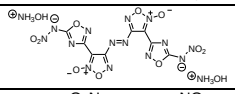
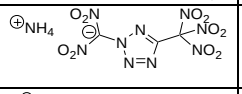
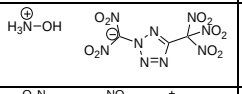
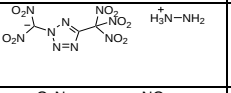
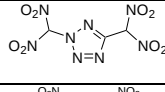
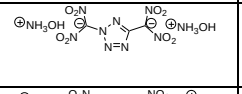
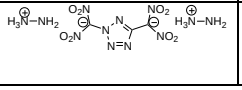
Table 54. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the ionic compounds.

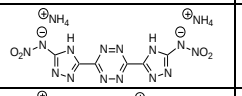
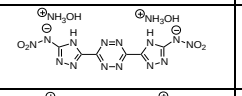
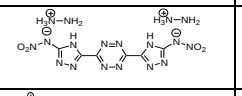
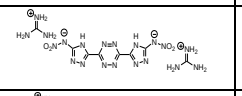
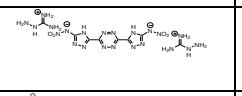
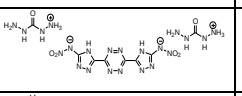
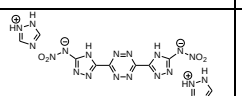
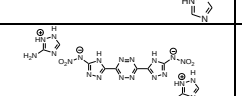
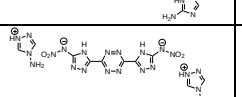
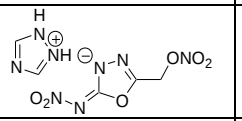
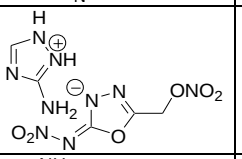
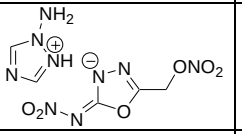
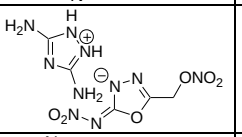
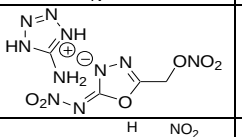
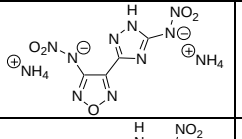
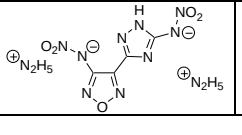
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
50	[43]		271	12.9	330	28.5	221	-6.8	274	13.9	236
52	[45]		168	-89.3	-118	369.5	242	-31.4	146	-117.8	318
53	[38]		181	-54.1	368	24.2	222	-25.7	257	-8.6	279
76	[49]		68	-133.8	182	12.6	160	0.6	137	-16.1	159
93	[52]		331	15.7	344	18.9	302	7.6	326	14.4	279
99	[55]		218	3.2	242	12.8	207	-1.9	222	5	211
100	[55]		247	-8.5	254	-5.5	249	-7.6	250	-7.2	268
101	[55]		321	10	242	-19.4	268	-7.8	277	-4.3	289
102	[55]		154	-2.6	42	-276.2	146	-8.2	114	-38.6	158
103	[55]		223	1.3	256	14.1	217	-1.4	232	5.2	220
104	[55]		170	-22.4	275	24.4	206	-1	217	4.1	208
106	[55]		188	1.6	254	27.2	186	0.5	209	11.5	185
107	[55]		197	-8.6	265	19.2	210	-1.9	224	4.5	214
108	[55]		150	-0.7	60	-151.7	140	-7.9	117	-29.1	151
110	[56]		391	7.7	506	28.7	296	-22	398	9.3	361

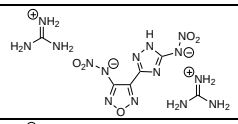
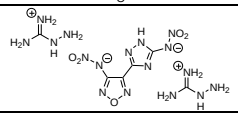
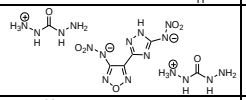
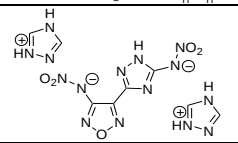
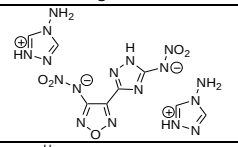
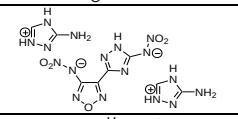
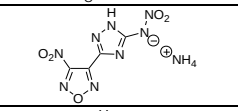
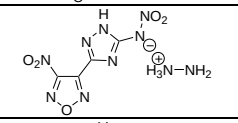
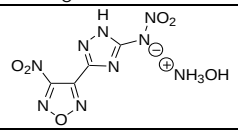
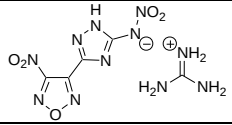
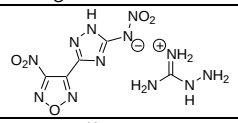
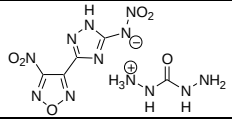
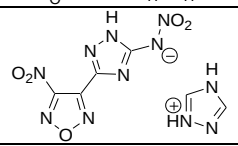
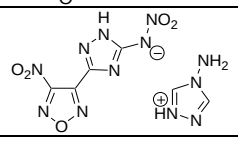
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
111	[56]		395	-5.8	529	21	397	-5.3	440	5	418
112	[56]		379	5.5	524	31.7	336	-6.5	413	13.3	358
122	[37]		230	-20	317	12.9	222	-24.3	256	-7.8	276
123	[58]		387	-1	343	-14	375	-4.3	368	-6.3	391
124	[58]		438	20.3	351	0.6	333	-4.8	374	6.7	349
125	[58]		404	15.6	381	10.5	369	7.6	385	11.4	341
126	[58]		271	8.5	326	23.9	248	0	282	12.1	248
133	[62]		270	-10.4	367	18.8	292	-2.1	310	3.9	298
134	[62]		228	15.4	326	40.8	192	-0.5	249	22.5	193
135	[62]		300	6	350	19.4	270	-4.4	307	8.1	282
157	[66]		349	15.5	402	26.6	279	-5.7	343	14	295
158	[66]		356	7.3	436	24.3	315	-4.8	369	10.6	330
159	[66]		314	-4.8	410	19.8	310	-6.1	345	4.6	329

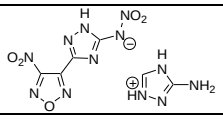
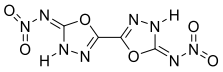
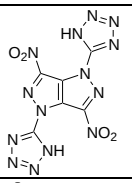
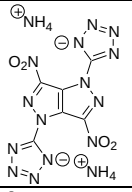
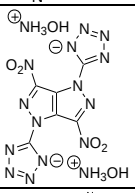
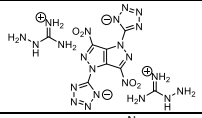
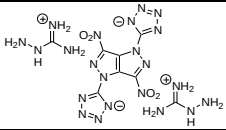
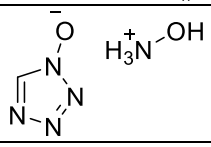
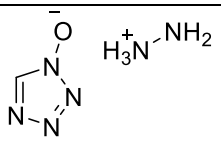
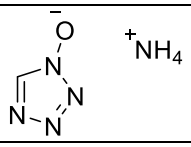
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
160	[66]		293	11.9	433	40.4	266	3	331	22.1	258
161	[66]		329	10.6	436	32.6	271	-8.5	345	14.8	294
175	[69]		288	12.8	331	24.2	247	-1.6	289	13.1	251
176	[69]		255	-0.4	339	24.5	249	-2.8	281	8.9	256
177	[69]		306	2.6	355	16.1	287	-3.8	316	5.7	298
178	[69]		277	-4.3	322	10.2	267	-8.2	289	0	289
179	[69]		344	6.7	402	20.1	299	-7.4	348	7.8	321
180	[69]		292	11.6	386	33.2	251	-2.8	310	16.8	258
181	[69]		299	0.7	391	24	286	-3.8	325	8.6	297
182	[69]		331	2.7	403	20.1	305	-5.6	346	6.9	322
185	[70]		299	19.1	307	21.2	233	-3.9	280	13.6	242
195	[72]		354	12.1	380	18.2	281	-10.7	338	8	311
196	[72]		362	6.1	380	10.5	302	-12.6	348	2.3	340
202	[73]		277	11.2	326	24.5	239	-2.9	281	12.5	246

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
203	[73]		290	-26.2	428	14.5	292	-25.3	337	-8.6	366
204	[74]		364	-9.9	451	11.3	402	0.5	406	1.5	400
205	[74]		314	-22.6	437	11.9	373	-3.2	375	-2.7	385
206	[74]		341	4.4	426	23.5	319	-2.2	362	9.9	326
207	[74]		303	-16.2	397	11.3	338	-4.1	346	-1.7	352
208	[74]		337	-3.3	416	16.3	330	-5.5	361	3.6	348
209	[74]		264	-14	317	5	276	-9.1	270	-11.5	301
213	[75]		359	11.7	350	9.4	302	-5	337	5.9	317
214	[75]		367	2.2	361	0.6	331	-8.5	353	-1.7	359
215	[75]		337	1.5	359	7.5	315	-5.4	337	1.5	332
218	[75]		391	5.1	401	7.5	359	-3.3	384	3.4	371
233	[80]		356	19.7	318	10.1	255	-12.2	310	7.7	286
234	[80]		347	5.2	319	-3.1	284	-15.8	317	-3.8	329
235	[80]		367	9.8	361	8.3	294	-12.6	341	2.9	331

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
236	[80]		320	22.2	-	-	219	-13.7	270	7.8	249
237	[80]		302	8.6	-	-	240	-15	271	-1.8	276
238	[80]		322	13	236	-18.6	253	-10.7	270	-3.7	280
239	[81]		324	3.4	411	23.8	295	-6.1	343	8.7	313
246	[84]		323	15.5	285	4.2	246	-11	285	4.2	273
247	[84]		301	2.7	356	17.7	282	-3.9	313	6.4	293
248	[84]		337	8.9	310	1	293	-4.8	313	1.9	307
249	[84]		242	-10.3	280	4.6	198	-34.8	240	-11.3	267
251	[84]		348	17	383	24.5	279	-3.6	337	14.2	289
252	[84]		336	5.1	394	19	310	-2.9	347	8.1	319
253	[84]		360	4.7	396	13.4	328	-4.6	361	5	343
255	[85]		380	16.8	447	29.3	367	13.9	398	20.6	316
256	[85]		431	15.8	426	14.8	436	16.7	434	16.4	363
257	[85]		363	4.7	466	25.8	352	1.7	394	12.2	346
258	[85]		421	10.5	454	17	406	7.1	427	11.7	377
259	[85]		401	-5.7	482	12	420	-1	434	2.3	424
260	[85]		331	-14.5	477	20.5	376	-0.8	395	4.1	379

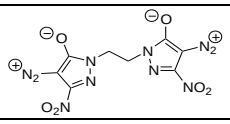
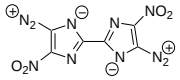
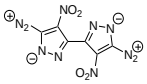
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
274	[91]		345	9.9	374	16.8	293	-6.1	337	7.7	311
275	[91]		336	-12.5	406	6.9	353	-7.1	365	-3.6	378
276	[91]		290	-16.2	383	12	312	-8	328	-2.7	337
277	[91]		265	-16.6	343	9.9	277	-11.6	295	-4.7	309
278	[91]		227	-40.1	352	9.7	285	-11.6	288	-10.4	318
279	[91]		247	-35.2	387	13.7	311	-7.4	315	-6	334
280	[91]		323	1.5	325	2.2	289	-10	312	-1.9	318
281	[91]		295	-13.9	335	-0.3	296	-13.5	309	-8.7	336
282	[91]		329	1.8	335	3.6	284	-13.7	316	-2.2	323
371	[98]		314	-1.8	312	-2.5	268	-19.3	298	-7.3	319.8
372	[98]		285	-12.7	324	0.9	325	1.2	311	-3.3	321.2
373	[98]		307	-9.8	339	0.6	338	0.3	328	-2.8	337.1
374	[98]		286	-12.3	348	7.7	279	-15.1	304	-5.7	321.2
375	[98]		305	-19.9	399	8.3	358	-2.2	354	-3.3	365.7
436	[101]		362	11.9	399	20.1	306	-4.2	356	10.4	319
437	[101]		313	-11.5	410	14.9	341	-2.3	355	1.7	349

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
438	[101]		215	-6.5	360	36.4	222	-3.2	266	13.9	229
439			201	-31.8	372	28.8	254	-4.3	276	4	265
440	[101]		213	-30	402	31.1	273	-1.5	296	6.4	277
441			301	12.3	334	21	266	0.8	300	12	264
442	[101]		300	3	347	16.1	276	-5.4	308	5.5	291
443	[101]		269	0.4	347	22.8	255	-5.1	290	7.6	268
444	[101]		354	7.9	384	15.1	312	-4.5	350	6.9	326
445	[101]		340	-5.3	411	12.9	339	-5.6	363	1.4	358
446	[101]		357	0	419	14.8	344	-3.8	373	4.3	357
447	[101]		258	4.3	380	35	244	-1.2	294	16	247
448	[101]		246	-4.9	387	33.3	256	-0.8	296	12.8	258
449	[101]		252	-7.1	402	32.8	267	-1.1	307	12.1	270
450	[101]		296	8.4	363	25.3	261	-3.8	307	11.7	271
451	[101]		309	6.8	370	22.2	276	-4.3	318	9.4	288

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
452	[101]		284	7.4	370	28.9	255	-3.1	303	13.2	263
453	[102]		392	-3	343	-17.8	363	-11.3	366	-10.4	403.9
454	[103]		363	14.9	418	26.1	287	-7.7	356	13.2	309
455	[103]		350	25.1	390	32.8	252	-4	331	20.8	262
456	[103]		302	13.9	418	37.8	255	-2	325	20	260
457	[103]		264	-18.6	364	14	262	-19.5	297	-5.4	313
458	[103]		230	-8.3	364	31.6	226	-10.2	273	8.8	249
475	[106]		280	-18.2	366	9.6	259	-27.8	302	-9.6	331
476	[106]		241	-32.4	122	-161.5	253	-26.1	205	-55.6	319
477	[106]		250	14.8	131	-62.6	240	11.3	207	-2.9	213

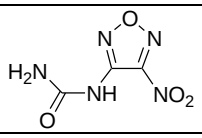
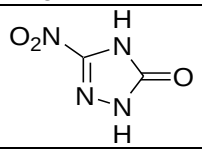
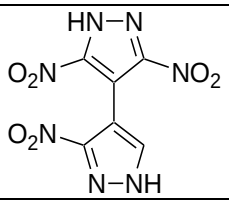
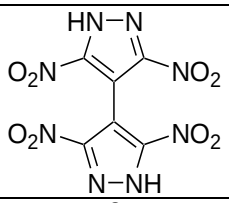
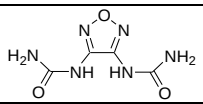
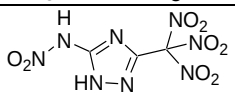
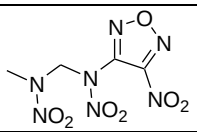
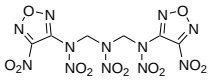
2.3.4 The detonation pressures of zwitterionic compounds

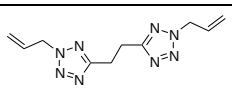
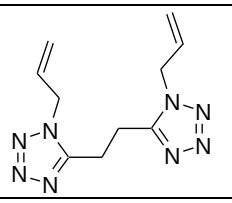
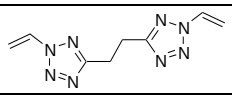
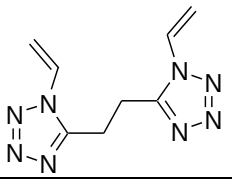
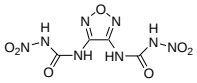
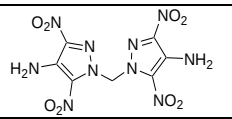
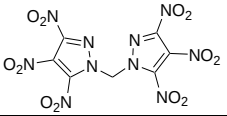
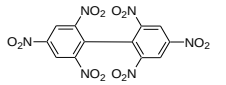
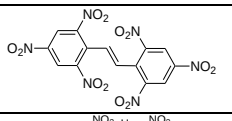
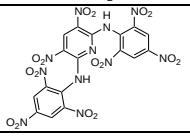
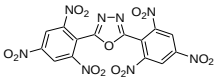
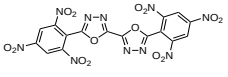
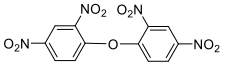
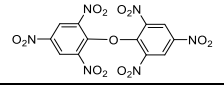
Table 55. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the zwitterionic compounds.

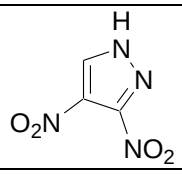
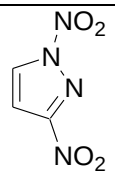
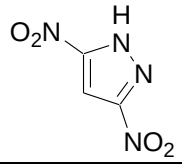
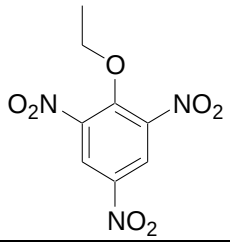
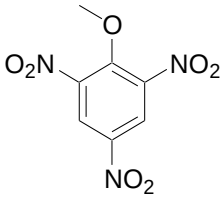
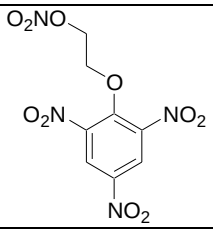
		Compound	P_{C-J} (kbar) Keshavarz	Deviation Keshavaraz [%]	P_{C-J} (kbar) Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} (kbar) Kamlet & Jacobs	Deviation Kamlet and Jacobs [%]	P_{C-J} (kbar) Rose Hybrid	Deviation RoseHybrid [%]	P_{C-J} from reference [kbar]
185	[70]		299	19.1	307	21.2	233	-3.9	280	13.6	242
195	[72]		354	12.1	380	18.2	281	-10.7	338	8	311
196	[72]		362	6.1	380	10.5	302	-12.6	348	2.3	340

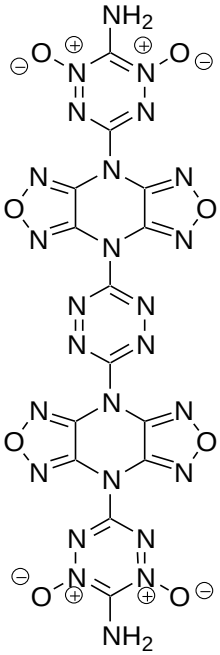
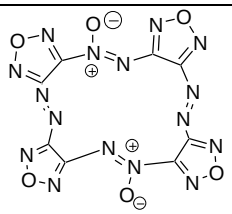
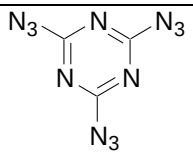
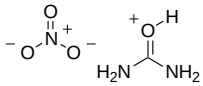
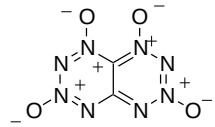
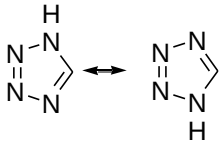
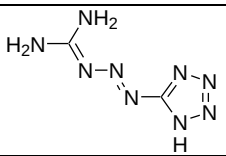
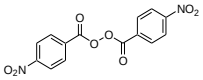
2.3.5 The detonation pressures of aromatic compounds

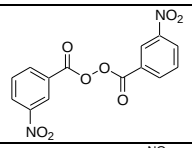
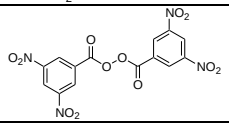
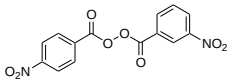
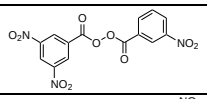
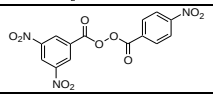
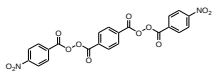
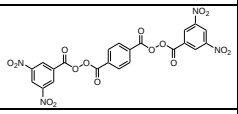
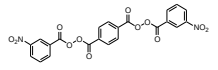
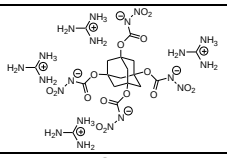
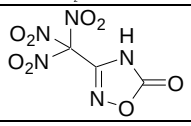
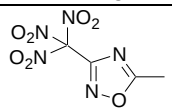
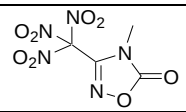
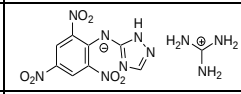
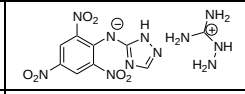
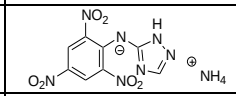
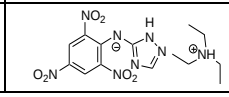
Table 56. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the aromatic compounds.

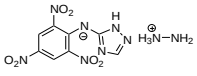
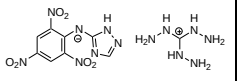
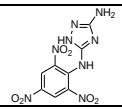
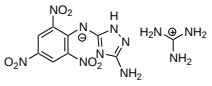
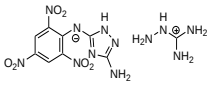
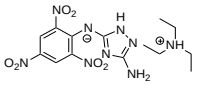
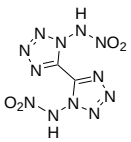
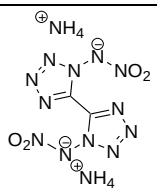
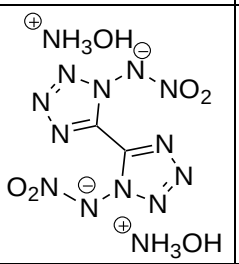
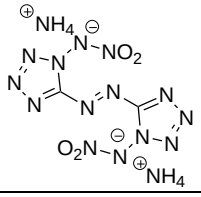
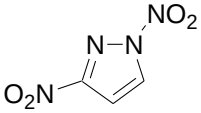
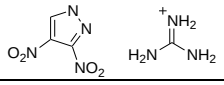
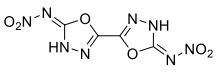
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
4	[25]		**263**	**10.3**	**339**	**30.4**	**255**	**7.5**	**286**	**17.5**	**236**
5	[23] [26]		**351**	**13.1**	**361**	**15.5**	**300**	**-1.7**	**337**	**9.5**	**305**
6	[27]		**333**	**14.1**	**324**	**11.7**	**290**	**1.4**	**313**	**8.6**	**286**
7	[27]		**336**	**7.4**	**375**	**17.1**	**303**	**-2.6**	**338**	**8**	**311**
8	[25]		**311**	**21.2**	**186**	**-31.7**	**246**	**0.4**	**248**	**1.2**	**245**
9	[28]		**384**	**3.9**	**454**	**18.7**	**406**	**9.1**	**414**	**10.9**	**369**
10	[29]		**322**	**0**	**401**	**19.7**	**320**	**-0.6**	**348**	**7.5**	**322**
11	[29]		**440**	**10.7**	**440**	**10.7**	**392**	**-0.3**	**424**	**7.3**	**393**

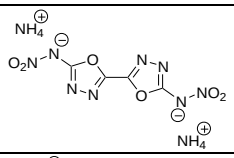
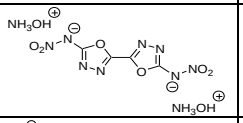
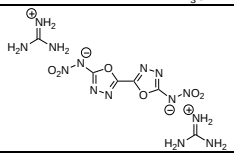
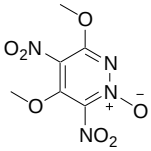
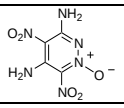
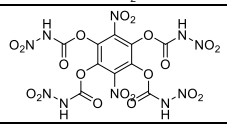
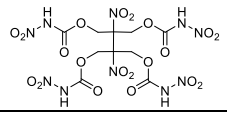
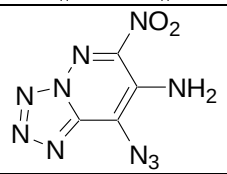
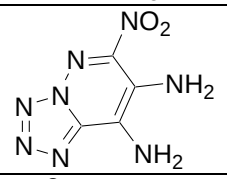
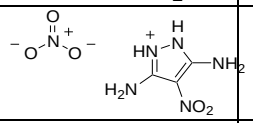
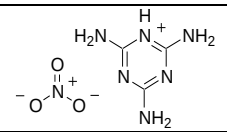
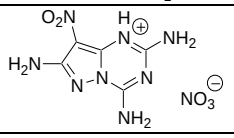
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
12	[30]		105	5.7	-	-	68	-45.6	86	-15.1	99
13	[30]		105	5.7	-	-	69	-43.5	87	-13.8	99
14	[30]		164	9.8	-	-	105	-41	134	-10.4	148
15	[30]		164	9.1	-	-	106	-40.6	135	-10.4	149
16	[25]		317	-1.6	375	14.1	327	1.5	340	5.3	322
17	[31]		323	8.4	350	15.4	285	-3.9	319	7.2	296
18	[31]		437	10.5	402	2.7	377	-3.7	405	3.5	391
19	[32] [26]		270	9.6	226	-8	231	-5.6	242	-0.8	244
20	[32]		266	8.6	181	-34.3	230	-5.7	226	-7.5	243
21	[32]		271	7.4	240	-4.6	241	-4.1	251	0	251
22	[32] [33]		309	9.7	230	-21.3	250	-11.6	263	-6.1	279
23	[32]		347	21.3	232	-17.7	256	-6.6	278	1.8	273
24	[34]		260	35.4	130	-29.2	202	16.8	197	14.7	168
25	[34]		329	24	239	-4.6	273	8.4	280	10.7	250

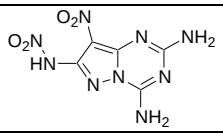
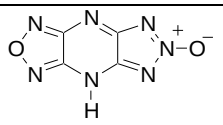
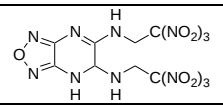
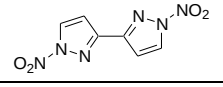
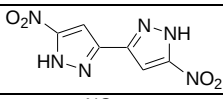
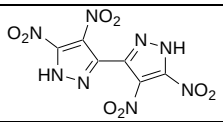
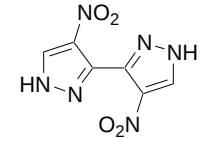
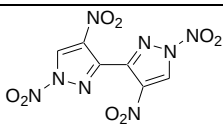
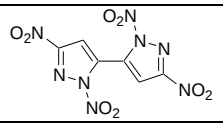
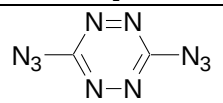
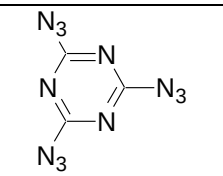
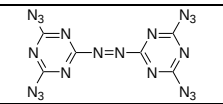
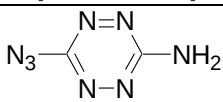
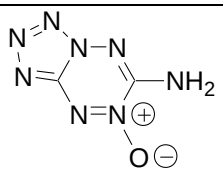
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
36	[37]		313	2.2	301	-1.7	226	-35.4	327	6.4	306
37	[37]		315	2.2	367	16.1	301	-2.3	328	6.1	308
38	[37]		309	6.5	367	21.3	290	0.3	322	10.2	289
39	[26]		210	9	132	-44.7	184	-3.8	175	-9.1	191
40	[38]		266	23.3	178	-14.6	226	9.7	223	8.5	204
41	[38]		282	16	224	-5.8	255	7.1	254	6.7	237

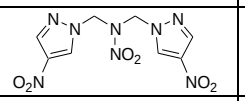
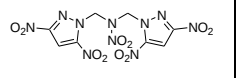
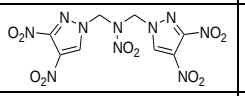
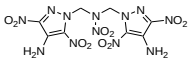
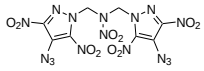
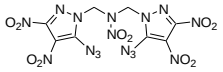
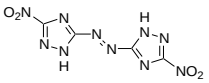
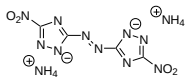
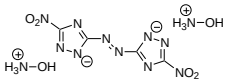
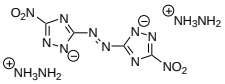
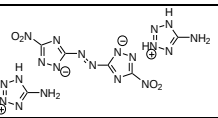
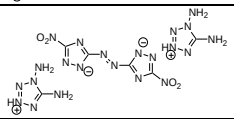
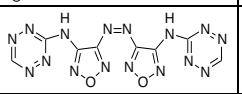
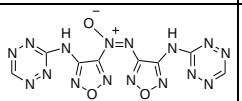
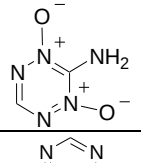
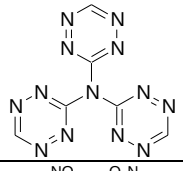
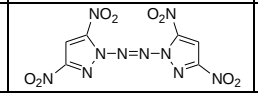
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
42	[38]		459	30.3	370	13.5	307	-4.2	379	15.6	320
43	[38] [39]		377	0	410	8	296	-27.4	361	-4.4	377
47	[24] [40]		309	26.9	-	-	237	4.6	273	17.2	226
50	[43]		271	12.9	330	28.5	221	-6.8	274	13.9	236
57	[46]		451	18.4	545	32.5	357	-3.1	451	18.4	368
58	[38]		221	5	-	-	184	-14.1	202	-4	210
63	[38]		326	-3.7	-	-	259	-30.5	292	-15.8	338
67	[48]		194	33	-64	303.1	137	5.1	134	3	130

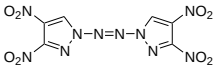
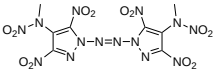
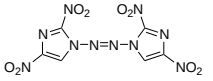
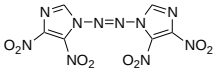
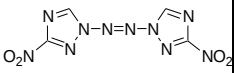
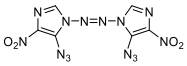
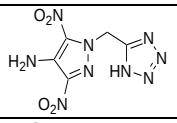
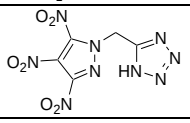
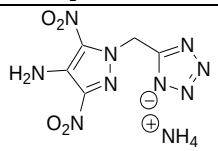
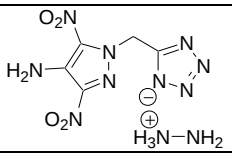
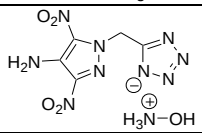
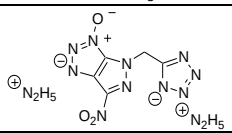
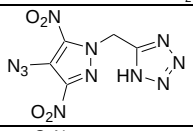
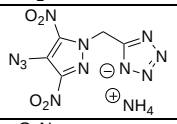
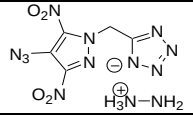
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
68	[48]		194	33	-64	303.1	137	5.1	134	3	130
69	[48]		252	20.6	94	-112.8	202	1	183	-9.3	200
70	[48]		211	57.3	-64	240.6	148	39.2	148	39.2	90
71	[48]		233	22.7	25	-620	178	-1.1	145	-24.1	180
72	[48]		230	26.1	25	-580	176	3.4	144	-18.1	170
73	[48]		128	29.7	-116	177.6	104	13.5	58	-55.2	90
74	[48]		160	18.8	4	-3150	138	5.8	101	-28.7	130
75	[48]		126	28.6	-116	177.6	138	34.8	74	-21.6	90
76	[49]		68	-133.8	182	12.6	160	0.6	137	-16.1	159
96	[54]		407	18.7	372	11	430	23	403	17.9	331
97	[54]		357	3.1	382	9.4	339	-2.1	359	3.6	346
98	[54]		346	0	328	-5.5	349	0.9	341	-1.5	346
99	[55]		218	3.2	242	12.8	207	-1.9	222	5	211
100	[55]		247	-8.5	254	-5.5	249	-7.6	250	-7.2	268
101	[55]		321	10	242	-19.4	268	-7.8	277	-4.3	289
102	[55]		154	-2.6	42	-276.2	146	-8.2	114	-38.6	158

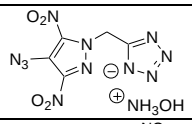
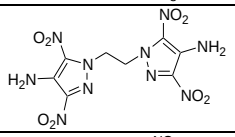
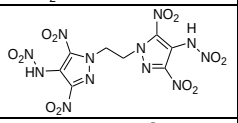
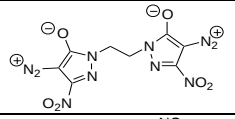
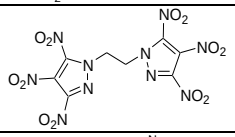
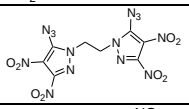
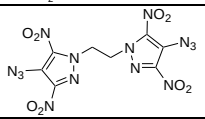
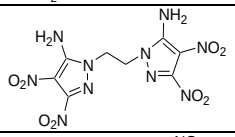
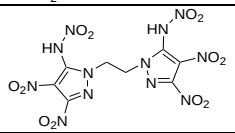
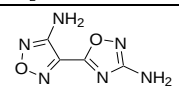
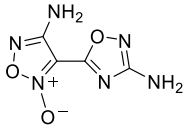
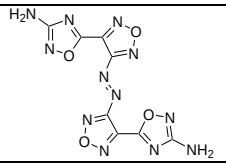
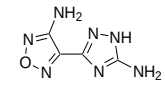
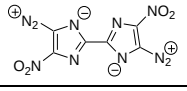
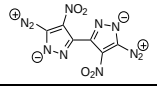
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
103	[55]		**223**	**1.3**	**256**	**14.1**	**217**	**-1.4**	**232**	**5.2**	**220**
104	[55]		**170**	**-22.4**	**275**	**24.4**	**206**	**-1**	**217**	**4.1**	**208**
105	[55]		**296**	**6.1**	**256**	**-8.6**	**256**	**-8.6**	**269**	**-3.3**	**278**
106	[55]		**188**	**1.6**	**254**	**27.2**	**186**	**0.5**	**209**	**11.5**	**185**
107	[55]		**197**	**-8.6**	**265**	**19.2**	**210**	**-1.9**	**224**	**4.5**	**214**
108	[55]		**150**	**-0.7**	**60**	**-151.7**	**140**	**-7.9**	**117**	**-29.1**	**151**
109	[56]		**418**	**-9.1**	**557**	**18.1**	**436**	**-4.6**	**470**	**3**	**456**
110	[56]		**391**	**7.7**	**506**	**28.7**	**296**	**-22**	**398**	**9.3**	**361**
111	[56]		**395**	**-5.8**	**529**	**21**	**397**	**-5.3**	**440**	**5**	**418**
112	[56]		**379**	**5.5**	**524**	**31.7**	**336**	**-6.5**	**413**	**13.3**	**358**
120	[37]		315	**2.9**	367	**16.6**	301	**-1.7**	328	**6.7**	306
122	[37]		**230**	**-20**	**317**	**12.9**	**222**	**-24.3**	**256**	**-7.8**	**276**
123	[58]		**387**	**-1**	**343**	**-14**	**375**	**-4.3**	**368**	**-6.3**	**391**

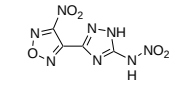
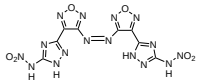
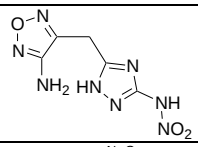
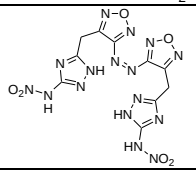
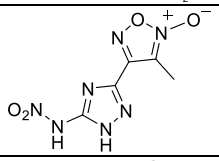
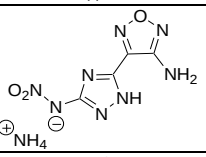
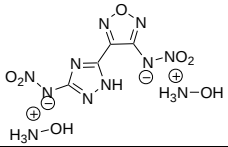
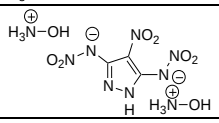
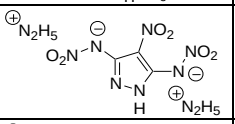
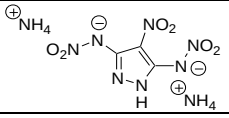
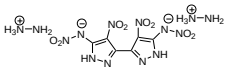
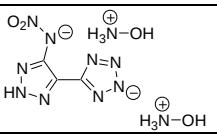
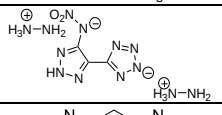
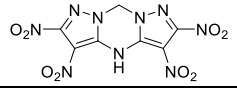
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
124	[58]		438	20.3	351	0.6	333	-4.8	374	6.7	349
125	[58]		404	15.6	381	10.5	369	7.6	385	11.4	341
126	[58]		271	8.5	326	23.9	248	0	282	12.1	248
127	[59]		241	13.7	217	4.1	220	5.5	226	8	208
128	[59]		318	5	358	15.6	307	1.6	328	7.9	302
129	[60]		278	-	293	-	250	-	274	-	-
130	[60]		340	-	276	-	314	-	310	-	-
131	[61]		344	8.4	403	21.8	291	-8.2	346	9	315
132	[61]		314	11.8	307	9.8	258	-7.4	293	5.5	277
133	[62]		270	-10.4	367	18.8	292	-2.1	310	3.9	298
134	[62]		228	15.4	326	40.8	192	-0.5	249	22.5	193
135	[62]		300	6	350	19.4	270	-4.4	307	8.1	282

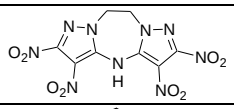
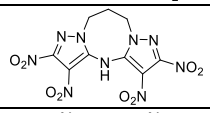
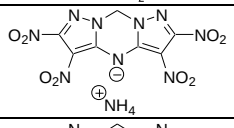
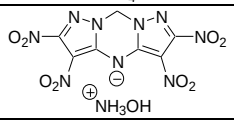
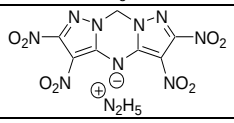
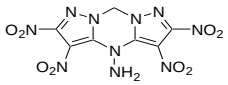
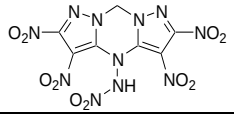
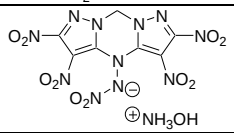
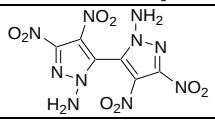
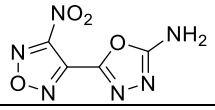
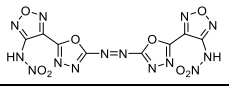
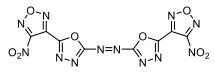
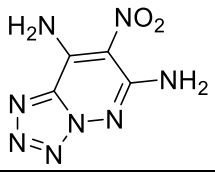
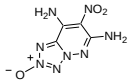
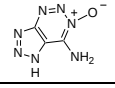
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
136	[62]		336	5.1	345	7.5	292	-9.2	324	1.5	319
137	[63]		346	6.4	360	10	282	-14.9	329	1.5	324
138	[63]		310	-3.5	375	14.4	315	-1.9	333	3.6	321
139	[64]		330	12.7	244	-18	265	-8.7	280	-2.9	288
140	[64]		301	13	244	-7.4	245	-6.9	263	0.4	262
141	[64]		344	6.1	375	13.9	293	-10.2	337	4.2	323
142	[64]		308	12.7	244	-10.2	250	-7.6	267	-0.7	269
143	[64]		378	8.7	375	8	327	-5.5	360	4.2	345
144	[64]		380	6.8	375	5.6	332	-6.6	362	2.2	354
145	[40]		271	2.2	-	-	267	0.7	269	1.5	265
146	[40]		313	14.1	-	-	258	-4.3	286	5.9	269
147	[40]		301	12.3	-	-	250.5	-5.4	275.8	4.3	264
148	[40]		274	1.5	-	-	250	-8	262	-3.1	270
149	[40]		374	2.7	417	12.7	332	-9.6	374	2.7	364

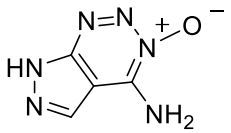
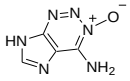
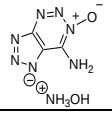
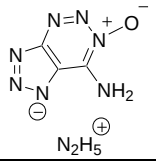
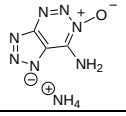
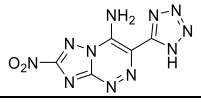
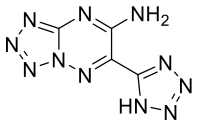
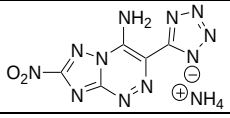
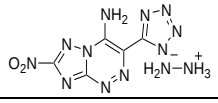
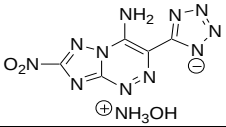
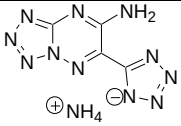
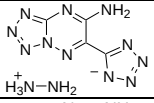
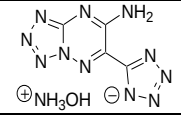
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
150	[65]		280	10.4	242	-3.7	236	-6.4	253	0.8	251
151	[65]		343	9.9	345	10.4	299	-3.3	329	6.1	309
152	[65]		343	9.6	345	10.1	299	-3.7	329	5.8	310
153	[65]		352	1.4	361	3.9	331	-4.8	348	0.3	347
154	[65]		386	9.1	415	15.4	333	-5.4	378	7.1	351
155	[65]		386	8.8	415	15.2	333	-5.7	378	6.9	352
156	[66]		365	4.9	440	21.1	323	-7.4	376	7.7	347
157	[66]		349	15.5	402	26.6	279	-5.7	343	14	295
158	[66]		356	7.3	436	24.3	315	-4.8	369	10.6	330
159	[66]		314	-4.8	410	19.8	310	-6.1	345	4.6	329
160	[66]		293	11.9	433	40.4	266	3	331	22.1	258
161	[66]		329	10.6	436	32.6	271	-8.5	345	14.8	294
162	[67]		290	13.4	325	22.8	236	-6.4	284	11.6	251
163	[67]		326	13.2	350	19.1	262	-8	313	9.6	283
164	[67]		307	1.6	365	17.3	291	-3.8	321	5.9	302
165	[67]		320	17.5	-	-	238	-10.9	279	5.4	264
166	[68]4		368	5.4	403	13.6	326	-6.7	366	4.9	348

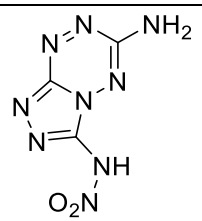
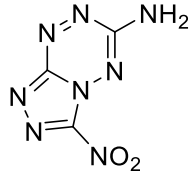
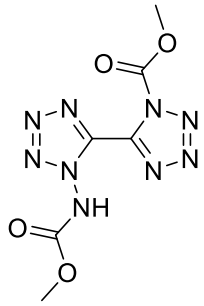
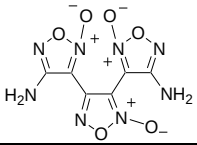
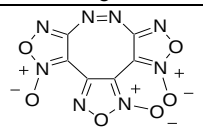
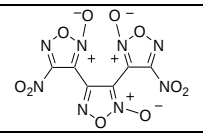
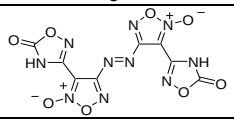
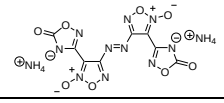
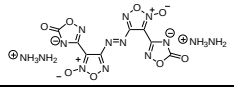
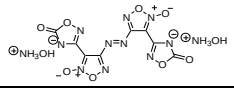
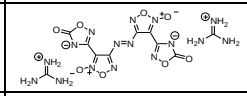
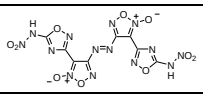
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
167	[68]**5**		**372**	**5.6**	**403**	**12.9**	**330**	**-6.4**	**368**	**4.6**	**351**
168	[68]**6**		**377**	**8.2**	**402**	**13.9**	**332**	**-4.2**	**370**	**6.5**	**346**
169	[68]**7**		**385**	**7.5**	**403**	**11.7**	**333**	**-6.9**	**374**	**4.8**	**356**
170	[68]**8**		**376**	**6.6**	**403**	**12.9**	**328**	**-7**	**369**	**4.9**	**351**
171	[68]		**362**	**7.5**	**440**	**23.9**	**311**	**-7.7**	**371**	**9.7**	**335**
172	[68]		**342**	**8.2**	**418**	**24.9**	**285**	**-10.2**	**348**	**9.8**	**314**
173	[69]		**329**	**8.8**	**345**	**13**	**283**	**-6**	**319**	**6**	**300**
174	[69]		**369**	**6.5**	**397**	**13.1**	**326**	**-5.8**	**364**	**5.2**	**345**
175	[69]		**288**	**12.8**	**331**	**24.2**	**247**	**-1.6**	**289**	**13.1**	**251**
176	[69]		**255**	**-0.4**	**339**	**24.5**	**249**	**-2.8**	**281**	**8.9**	**256**
177	[69]		**306**	**2.6**	**355**	**16.1**	**287**	**-3.8**	**316**	**5.7**	**298**
178	[69]		**277**	**-4.3**	**322**	**10.2**	**267**	**-8.2**	**289**	**0**	**289**
179	[69]		**344**	**6.7**	**402**	**20.1**	**299**	**-7.4**	**348**	**7.8**	**321**
180	[69]		**292**	**11.6**	**386**	**33.2**	**251**	**-2.8**	**310**	**16.8**	**258**
181	[69]		**299**	**0.7**	**391**	**24**	**286**	**-3.8**	**325**	**8.6**	**297**

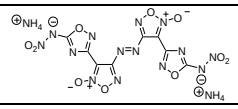
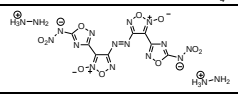
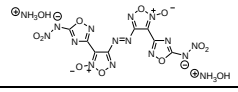
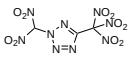
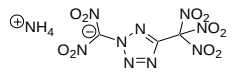
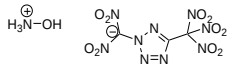
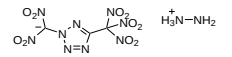
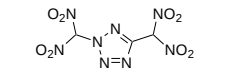
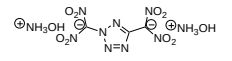
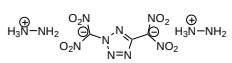
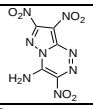
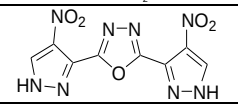
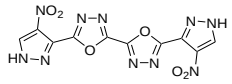
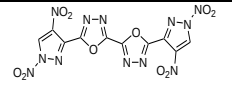
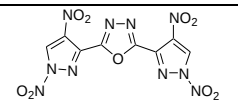
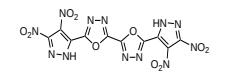
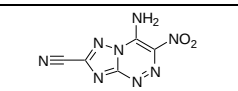
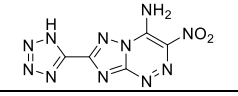
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
182	[69]		331	2.7	403	20.1	305	-5.6	346	6.9	322
183	[70]		299	6.7	313	10.9	268	-4.1	293	4.8	279
184	[70]		357	3.9	384	10.7	331	-3.6	357	3.9	343
185	[70]		299	19.1	307	21.2	233	-3.9	280	13.6	242
186	[70]		382	10.7	370	7.8	329	-3.6	360	5.3	341
187	[70]		347	3.7	383	12.8	311	-7.4	347	3.7	334
188	[70]		338	8.3	383	19.1	292	-6.2	338	8.3	310
189	[70]		292	6.5	313	12.8	263	-3.8	289	5.5	273
190	[70]		353	4.5	384	12.2	327	-3.1	355	5.1	337
191	[71]		265	23	240	15	198	-3	234	12.8	204
192	[71]		308	13	298	10.1	254	-5.5	287	6.6	268
193	[71]		282	23.4	308	29.9	204	-5.9	265	18.5	216
194	[71]		261	17.6	92	-133.7	193	-11.4	182	-18.1	215
195	[72]		354	12.1	380	18.2	281	-10.7	338	8	311
196	[72]		362	6.1	380	10.5	302	-12.6	348	2.3	340

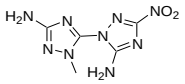
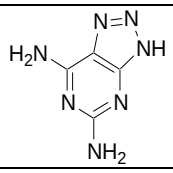
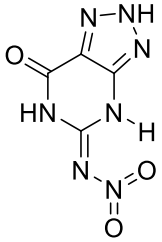
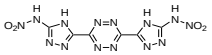
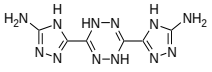
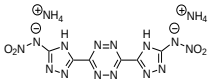
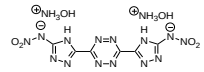
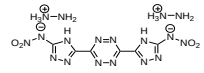
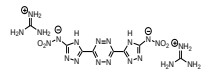
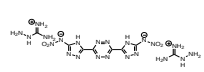
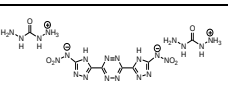
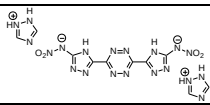
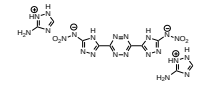
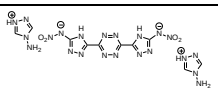
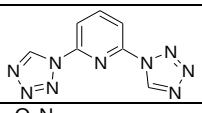
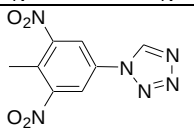
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
197	[73]		352	-2.3	420	14.3	337	-6.8	370	2.7	360
198	[73]		364	4.1	388	10.1	320	-9.1	357	2.2	349
199	[73]		258	3.5	275	9.5	238	-4.6	257	3.1	249
200	[73]		277	6.1	320	18.8	248	-4.8	282	7.8	260
201	[73]		289	2.4	300	6	269	-4.8	286	1.4	282
202	[73]		277	11.2	326	24.5	239	-2.9	281	12.5	246
203	[73]		290	-26.2	428	14.5	292	-25.3	337	-8.6	366
204	[74]		364	-9.9	451	11.3	402	0.5	406	1.5	400
205	[74]		314	-22.6	437	11.9	373	-3.2	375	-2.7	385
206	[74]		341	4.4	426	23.5	319	-2.2	362	9.9	326
207	[74]		303	-16.2	397	11.3	338	-4.1	346	-1.7	352
208	[74]		337	-3.3	416	16.3	330	-5.5	361	3.6	348
209	[74]		264	-14	317	5	276	-9.1	270	-11.5	301
210	[75]		373	8	352	2.6	323	-6.2	349	1.7	343

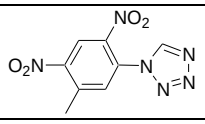
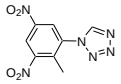
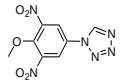
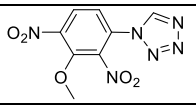
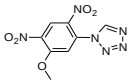
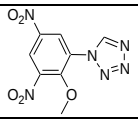
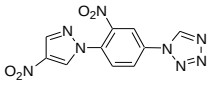
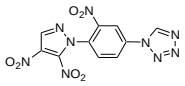
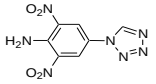
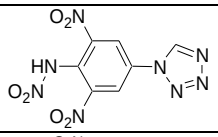
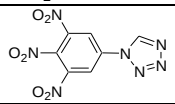
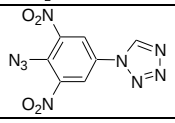
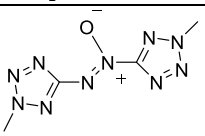
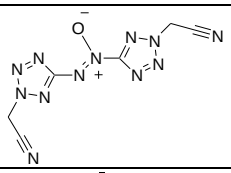
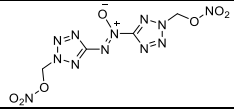
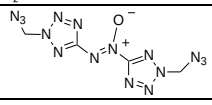
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
211	[75]		323	9.6	313	6.7	277	-5.4	304	3.9	292
212	[75]		297	8.4	276	1.4	258	-5.4	277	1.8	272
213	[75]		359	11.7	350	9.4	302	-5	337	5.9	317
214	[75]		367	2.2	361	0.6	331	-8.5	353	-1.7	359
215	[75]		337	1.5	359	7.5	315	-5.4	337	1.5	332
216	[75]		333	11.1	361	18	285	-3.9	326	9.2	296
217	[75]		412	5.8	396	2	366	-6	391	0.8	388
218	[75]		391	5.1	401	7.5	359	-3.3	384	3.4	371
219	[76]		318	2.5	391	20.7	299	-3.7	336	7.7	310
220	[77]		313	14.1	363	25.9	260	-3.5	312	13.8	269
221	[77]		355	17.5	352	16.8	277	-5.8	328	10.7	293
222	[77]		404	13.1	379	7.4	299	-17.4	346	-1.4	351
223	[78]		340	10.9	307	1.3	271	-11.8	306	1	303
224	[78]		353	1.4	353	1.4	313	-11.2	340	-2.4	348
225	[79]		321	5.6	257	-17.9	276	-9.8	285	-6.3	303

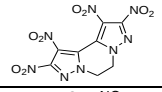
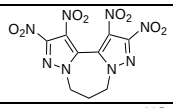
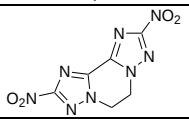
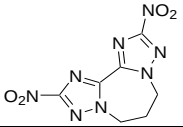
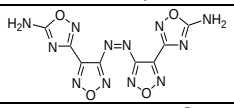
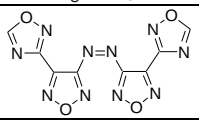
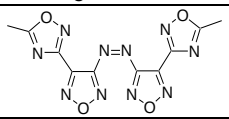
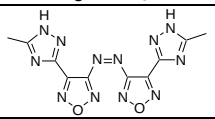
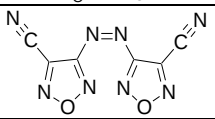
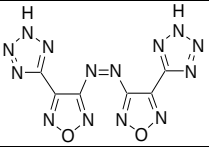
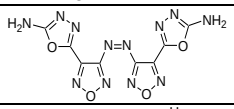
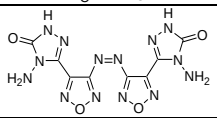
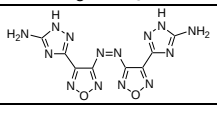
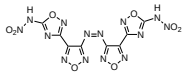
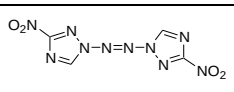
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
226	[79]		291	12	95	-169.5	225	-13.8	204	-25.5	256
227	[79]		281	17.1	95	-145.3	210	-11	195	-19.5	233
228	[79]		313	10.5	305	8.2	260	-7.7	293	4.4	280
229	[79]		285	-17.9	126	-166.7	251	-33.9	221	-52	336
230	[79]		309	8.7	131	-115.3	252	-11.9	231	-22.1	282
231	[80]		364	9.9	357	8.1	276	-18.8	332	1.2	328
232	[80]		332	22.9	-	-	246	-4.1	289	11.4	256
233	[80]		356	19.7	318	10.1	255	-12.2	310	7.7	286
234	[80]		347	5.2	319	-3.1	284	-15.8	317	-3.8	329
235	[80]		367	9.8	361	8.3	294	-12.6	341	2.9	331
236	[80]		320	22.2	-	-	219	-13.7	270	7.8	249
237	[80]		302	8.6	-	-	240	-15	271	-1.8	276
238	[80]		322	13	236	-18.6	253	-10.7	270	-3.7	280

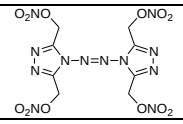
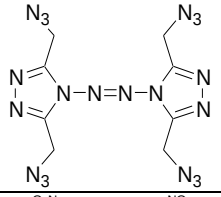
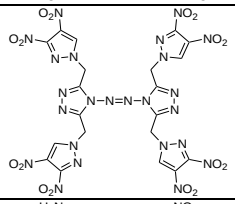
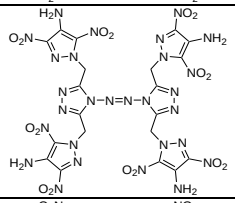
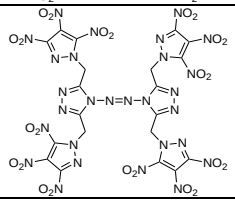
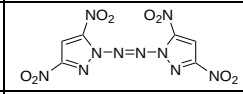
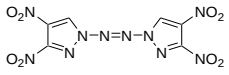
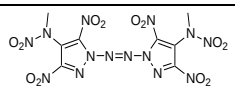
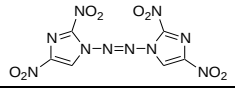
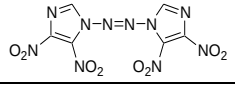
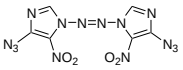
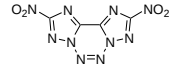
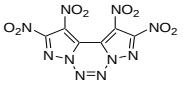
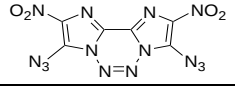
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
239	[81]		324	3.4	411	23.8	295	-6.1	343	8.7	313
240	[81]		352	3.7	416	18.5	314	-8	361	6.1	339
241	[82]		262	23.3	203	1	212	5.2	226	11.1	201
242	[83]		331	6.3	336	7.7	293	-5.8	320	3.1	310
243	[83]		409	3.2	368	-7.6	347	-14.1	375	-5.6	396
244	[83]		444	8.1	404	-1	381	-7.1	410	0.5	408
245	[84]		399	13	283	-22.6	321	-8.1	334	-3.9	347
246	[84]		323	15.5	285	4.2	246	-11	285	4.2	273
247	[84]		301	2.7	356	17.7	282	-3.9	313	6.4	293
248	[84]		337	8.9	310	1	293	-4.8	313	1.9	307
249	[84]		242	-10.3	280	4.6	198	-34.8	240	-11.3	267
250	[84]		436	5.3	386	-7	375	-10.1	399	-3.5	413

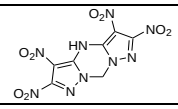
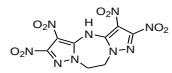
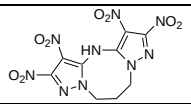
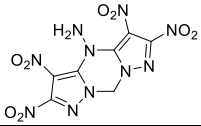
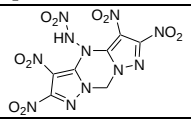
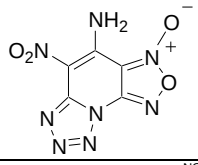
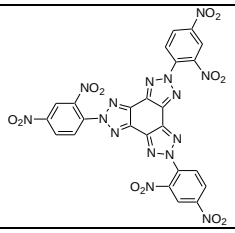
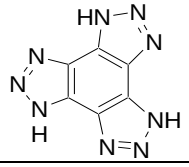
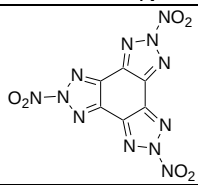
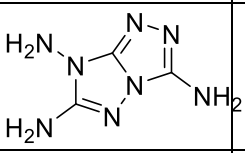
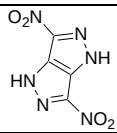
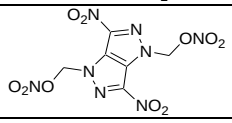
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
251	[84]		348	17	383	24.5	279	-3.6	337	14.2	289
252	[84]		336	5.1	394	19	310	-2.9	347	8.1	319
253	[84]		360	4.7	396	13.4	328	-4.6	361	5	343
254	[85]		420	25.7	407	23.3	405	23	411	24.1	312
255	[85]		380	16.8	447	29.3	367	13.9	398	20.6	316
256	[85]		431	15.8	426	14.8	436	16.7	434	16.4	363
257	[85]		363	4.7	466	25.8	352	1.7	394	12.2	346
258	[85]		421	10.5	454	17	406	7.1	427	11.7	377
259	[85]		401	-5.7	482	12	420	-1	434	2.3	424
260	[85]		331	-14.5	477	20.5	376	-0.8	395	4.1	379
261	[86]		383	14.9	389	16.2	329	0.9	367	11.2	326
262	[87]		309	12.2	222	-22.3	250	-8.6	260	-4.4	271.4
263	[87]		325	18.4	206	-28.8	246	-7.8	259	-2.4	265.3
264	[87]		395	13.3	300	-14.1	252	-35.8	316	-8.3	342.3
265	[87]		388	14.1	331	-0.7	329	-1.3	349	4.5	333.3
266	[87]		382	14.3	300	-9.2	263	-24.5	315	-4	327.5
267	[88]		301	23.4	309	25.4	225	-2.4	263	12.4	230.5
268	[88]		342	20.9	357	24.3	260	-4	320	15.5	270.4

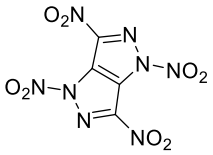
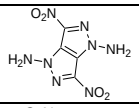
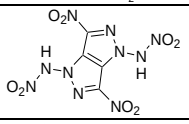
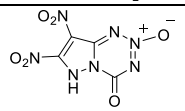
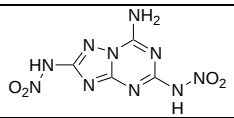
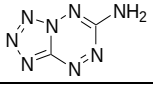
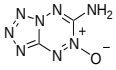
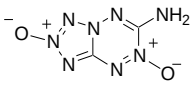
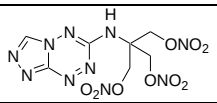
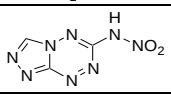
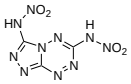
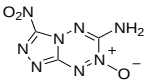
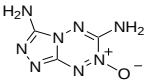
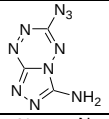
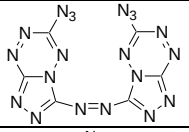
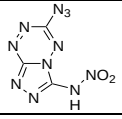
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
269	[89]		316	19.6	222	-14.4	244	-4.1	261	2.7	254
270	[90]		241	24.6	-	-	161	-12.8	201	9.7	181.6
271	[90]		354	8.1	312	-4.3	293	-11.1	320	-1.7	325.4
272	[91]		347	8.6	400	20.8	341	7	363	12.7	317
273	[91]		246	-48	-	-	263	-38.4	254	-43.3	364
274	[91]		345	9.9	374	16.8	293	-6.1	337	7.7	311
275	[91]		336	-12.5	406	6.9	353	-7.1	365	-3.6	378
276	[91]		290	-16.2	383	12	312	-8	328	-2.7	337
277	[91]		265	-16.6	343	9.9	277	-11.6	295	-4.7	309
278	[91]		227	-40.1	352	9.7	285	-11.6	288	-10.4	318
279	[91]		247	-35.2	387	13.7	311	-7.4	315	-6	334
280	[91]		323	1.5	325	2.2	289	-10	312	-1.9	318
281	[91]		295	-13.9	335	-0.3	296	-13.5	309	-8.7	336
282	[91]		329	1.8	335	3.6	284	-13.7	316	-2.2	323
283	[92]		247	30.4	-	-	157	-9.6	202	14.9	172
284	[92]		255	20	150	-36	197	-3.6	201	-1.5	204

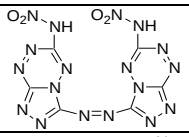
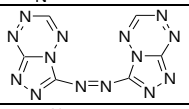
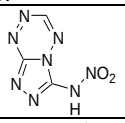
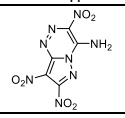
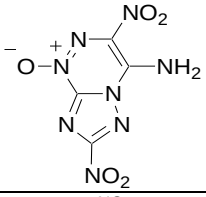
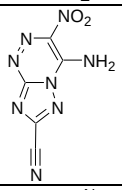
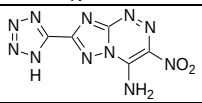
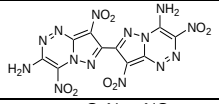
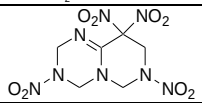
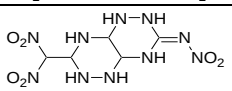
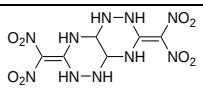
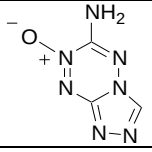
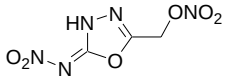
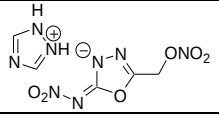
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
285	[92]		245	20.4	150	-30	190	-2.6	195	0	195
286	[92]		242	21.1	150	-27.3	187	-2.1	193	1	191
287	[92]		274	27.4	168	-18.5	216	7.9	219	9.1	199
288	[92]		247	20.2	168	-17.3	195	-1	203	3	197
289	[92]		257	18.3	168	-25	205	-2.4	210	0	210
290	[92]		260	18.8	168	-25.6	207	-1.9	212	0.5	211
291	[92]		254	25.6	150	-26	184	-2.7	196	3.6	189
292	[92]		281	22.1	229	4.4	215	-1.9	242	9.5	219
293	[92]		265	9.1	223	-8.1	212	-13.7	233	-3.4	241
294	[92]		304	7.9	302	7.3	267	-4.9	291	3.8	280
295	[92]		342	17	289	1.7	286	0.7	306	7.2	284
296	[92]		288	9	293	10.6	234	-12	272	3.7	262
297	[93]		256	25.8	172	-10.5	184	-3.3	204	6.9	190
298	[93]		249	24.9	239	21.8	180	-3.9	223	16.1	187
299	[93]		333	22.5	478	46	275	6.2	362	28.7	258
300	[93]		279	36.6	390	54.6	180	1.7	283	37.5	177

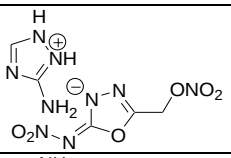
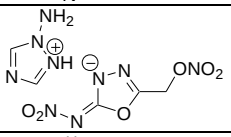
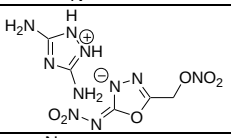
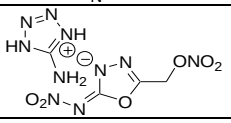
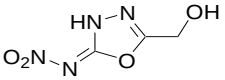
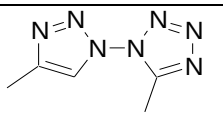
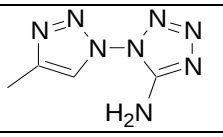
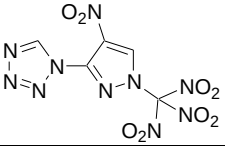
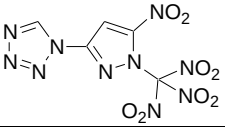
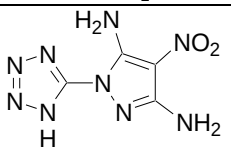
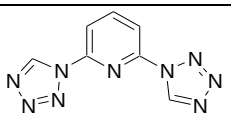
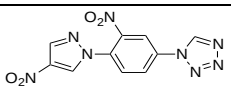
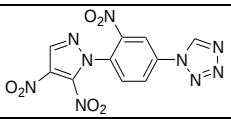
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
301	[94]		320	12.2	302	7	267	-5.2	296	5.1	281
302	[94]		277	13	264	8.7	232	-3.9	258	6.6	241
303	[94]		307	21.5	296	18.6	232	-3.9	278	13.3	241
304	[94]		261	24.5	238	17.2	195	-1	231	14.7	197
305	[95]		359	21.2	283	0	256	-10.5	299	5.4	283
306	[95]		312	27.2	262	13.4	216	-5.1	263	13.7	227
307	[95]		318	28.9	172	-31.4	212	-6.6	234	3.4	226
308	[95]		307	14	137	-92.7	211	-25.1	218	-21.1	264
309	[95]		258	15.5	311	29.9	202	-7.9	257	15.2	218
310	[95]		311	10	389	28	239	-17.2	313	10.5	280
311	[95]		350	22	257	-6.2	249	-9.6	285	4.2	273
312	[95]		272	17.6	286	21.7	217	-3.2	258	13.2	224
313	[95]		300	12.7	262	0	228	-14.9	263	0.4	262
314	[95]		520	11.3	372	-23.9	418	-10.3	437	-5.5	461
315	[95]		362	7.5	440	23.9	311	-7.7	371	9.7	335

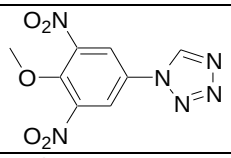
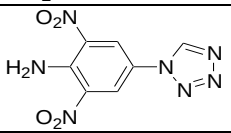
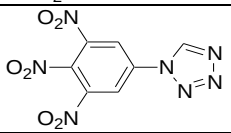
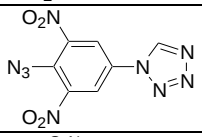
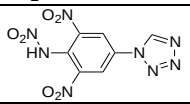
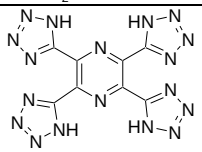
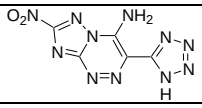
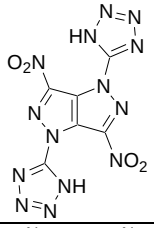
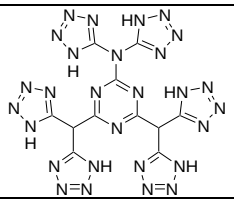
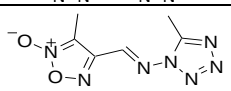
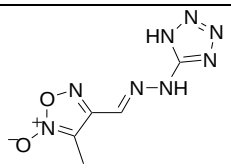
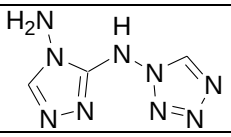
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
316	[95]		327	12.8	384	25.8	280	-1.8	330	13.6	285
317	[95]		231	9.5	-	-	194	-7.7	212	1.4	209
318	[95]		361	25.5	303	11.2	254	-5.9	306	12.1	269
319	[95]		322	15.2	322	15.2	261	-4.6	302	9.6	273
320	[95]		460	29.8	364	11.3	306	-5.6	377	14.3	323
321	[95]		368	5.4	403	13.6	326	-6.7	366	4.9	348
322	[95]		372	5.6	403	12.9	330	-6.4	368	4.6	351
323	[95]		377	8.2	402	13.9	330	-4.8	370	6.5	346
324	[95]		385	7.5	403	11.7	333	-6.9	374	4.8	356
325	[95]		376	33.2	403	37.7	328	23.5	369	32	251
326	[95]		342	8.2	418	24.9	293	-7.2	351	10.5	314
327	[96]		431	11.8	464	18.1	345	-10.1	413	8	380
328	[96]		427	-3	414	-6.3	353	-24.6	398	-10.6	440
329	[96]		417	12	436	15.8	330	-11.2	394	6.9	367

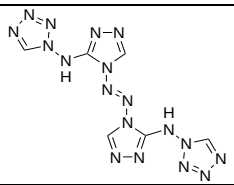
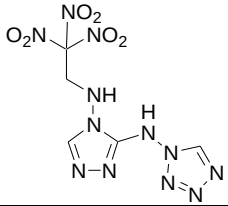
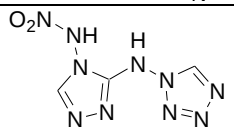
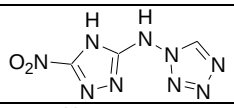
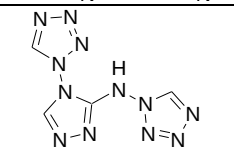
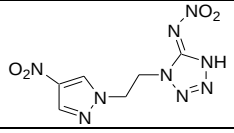
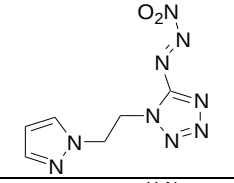
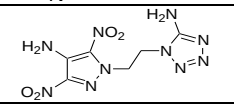
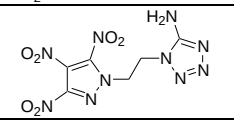
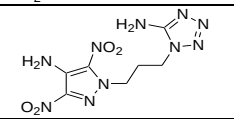
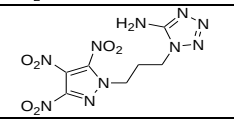
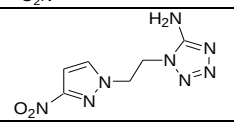
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
330	[96]		375	8.5	352	2.6	324	-5.9	350	2	343
331	[96]		323	9.6	313	6.7	277	-5.4	304	3.9	292
332	[96]		297	8.4	276	1.4	258	-5.4	277	1.8	272
333	[96]		333	11.1	361	18	285	-3.9	326	9.2	296
334	[96]		413	6.1	396	2	367	-5.7	392	1	388
335	[96]		402	10.4	361	0.3	360	0	374	3.7	360
336	[96]		274	27.4	154	-29.2	180	-10.6	203	2	199
337	[96]		302	35.8	-	-	153	-26.8	228	14.9	194
338	[96]		411	24.1	425	26.6	292	-6.8	376	17	312
339	[96]		273	5.1	-	-	217	-19.4	245	-5.7	259
340	[96]		339	19.2	363	24.5	305	10.2	336	18.5	274
341	[96]		376	12	364	9.1	327	-1.2	356	7	331

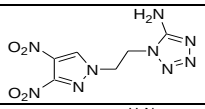
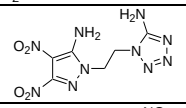
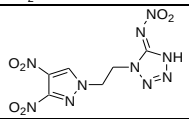
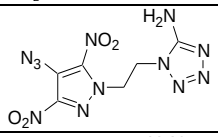
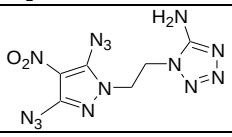
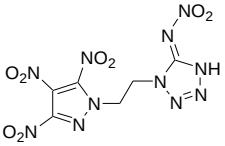
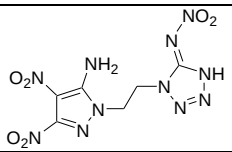
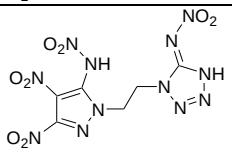
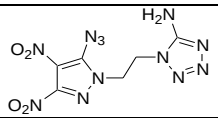
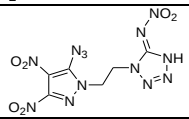
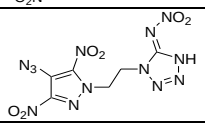
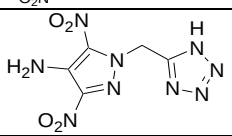
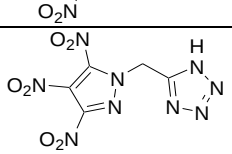
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
342	[96]		448	8.7	462	11.5	414	1.2	441	7.3	409
343	[96]		341	0.6	380	10.8	318	-6.6	346	2	339
344	[96]		412	-1.5	471	11.3	405	-3.2	429	2.6	418
345	[96]		445	25.4	397	16.4	372	10.8	405	18	332
346	[96]		333	-2.7	416	17.8	315	-8.6	355	3.7	342
347	[96]		292	7.5	-	-	250	-8	271	0.4	270
348	[96]		374	2.7	417	12.7	332	-9.6	374	2.7	364
349	[96]		406	-1.7	480	14	372	-11	419	1.4	413
350	[96]		337	12.8	325	9.5	302	2.6	321	8.4	294
351	[96]		324	6.2	416	26.9	293	-3.8	344	11.6	304
352	[96]		390	1.8	487	21.4	379	-1.1	419	8.6	383
353	[96]		370	-5.7	442	11.5	359	-8.9	390	-0.3	391
354	[96]		326	-6.4	240	-44.6	269	-29	278	-24.8	347
355	[96]		312	8.7	-	-	260	-9.6	286	0.3	285
356	[96]		381	20.7	-	-	283	-6.7	332	9	302
357	[96]		371	2.2	494	26.5	333	-9	399	9	363

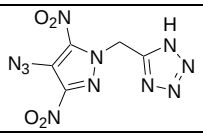
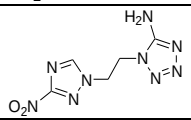
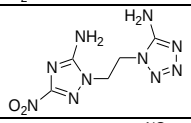
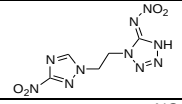
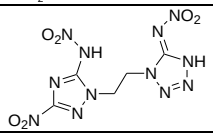
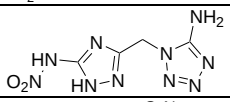
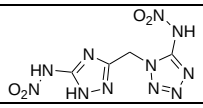
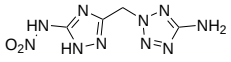
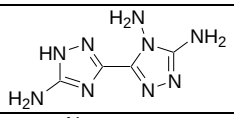
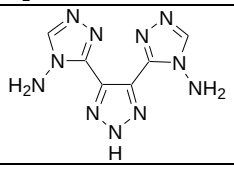
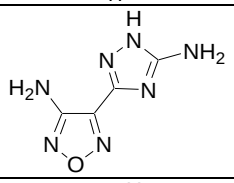
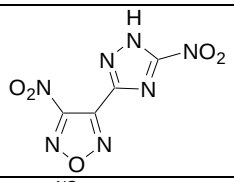
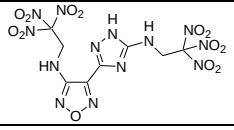
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
358	[96]		404	1.5	460	13.5	192	-107.3	352	-13.1	398
359	[96]		423	17.7	-	-	298	-16.8	360	3.3	348
360	[96]		344	3.5	416	20.2	306	-8.5	355	6.5	332
361	[96]		404	10.9	389	7.5	307	-17.3	367	1.9	360
362	[96]		388	8.8	420	15.7	338	-4.7	382	7.3	354
363	[96]		322	28.3	309	25.2	240	3.8	290	20.3	231
364	[96]		343	21.3	357	24.4	264	-2.3	321	15.9	270
365	[96]		347	9.5	336	6.5	275	-14.2	319	1.6	314
366	[96]		356	4.9	321	-5.5	329	-2.9	335	-1.1	338.7
367	[96]		230	-27.8	340	13.5	286	-2.8	285	-3.2	294
368	[96]		268	-31.3	352	0	334	-5.4	318	-10.7	352
369	[97]		292	12.7	257	0.8	240	-6.3	263	3	255
370	[98]		361	3.1	359	2.5	357	2	359	2.5	349.9
371	[98]		314	-1.8	312	-2.5	268	-19.3	298	-7.3	319.8

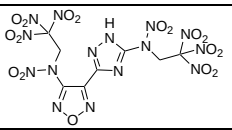
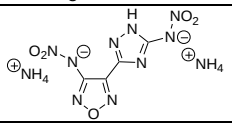
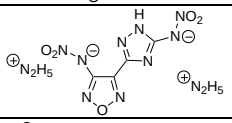
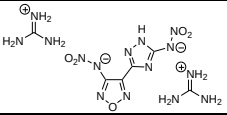
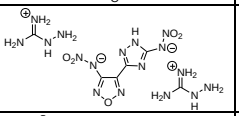
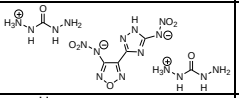
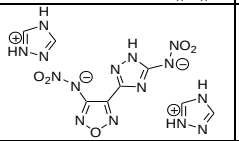
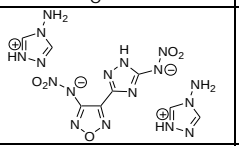
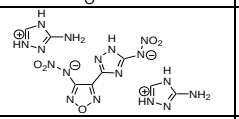
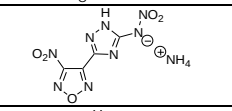
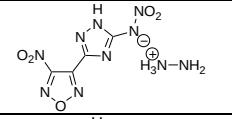
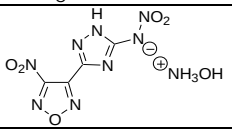
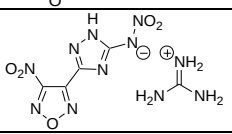
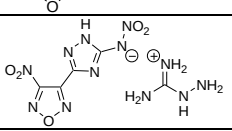
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
372	[98]		285	-12.7	324	0.9	325	1.2	311	-3.3	321.2
373	[98]		307	-9.8	339	0.6	338	0.3	328	-2.8	337.1
374	[98]		286	-12.3	348	7.7	279	-15.1	304	-5.7	321.2
375	[98]		305	-19.9	399	8.3	358	-2.2	354	-3.3	365.7
376	[98]		320	14.9	277	1.7	288	5.5	295	7.7	272.2
377	[99]		203	-20.7	-	-	151	-62.3	177	-38.4	245
378	[99]		219	7.3		-	181	-12.2	200	-1.5	203
379	[99]		370	8.1	435	21.8	330	-3	378	10.1	340
380	[99]		357	10.4	435	26.4	321	0.3	371	13.7	320
381	[99]		288	10.1	310	16.5	180	-43.9	259	0	259
382	[99]		247	30.4	-	-	157	-9.6	202	14.9	172
383	[99]		254	25.6	150	-26	184	-2.7	196	3.6	189
384	[99]		281	22.1	229	4.4	215	-1.9	242	9.5	219

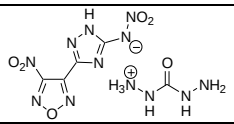
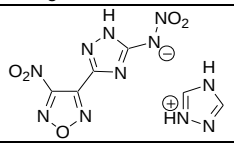
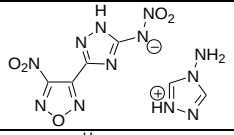
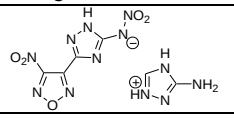
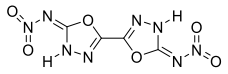
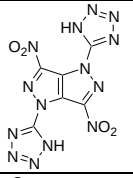
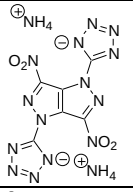
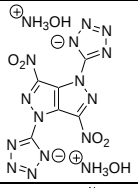
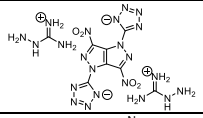
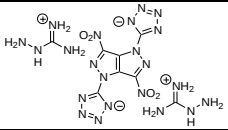
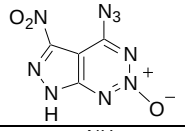
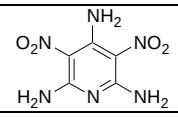
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
385	[99]		274	27.4	184	-8.2	216	7.9	225	11.6	199
386	[99]		265	9.1	223	-8.1	212	-13.7	233	-3.4	241
387	[99]		342	17	289	1.7	286	0.7	306	7.2	284
388	[99]		288	9	293	10.6	234	-12	272	3.7	262
389	[99]		304	7.9	302	7.3	267	-4.9	291	3.8	280
390	[99]		389	28	-	-	263	-6.5	326	14.1	280
391	[99]		363	9.6	357	8.1	275	-19.3	332	1.2	328
392	[99]		363	14.9	418	26.1	287	-7.7	356	13.2	309
393	[99]		375	33.1	-	-	241	-4.1	308	18.5	251
394	[99]		223	13.7	115	-67.3	177	-8.7	172	-11.9	192.4
395	[99]		241	2.5	213	-10.3	228	-3.1	227	-3.5	235
396	[99]		262	-5.7	-	-	245	-13.1	254	-9.1	277

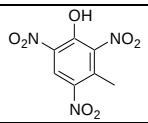
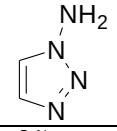
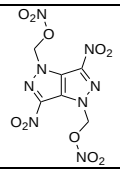
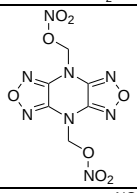
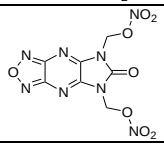
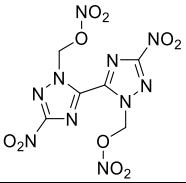
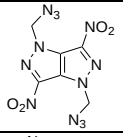
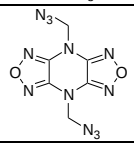
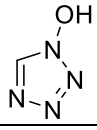
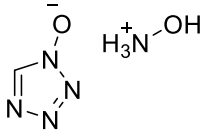
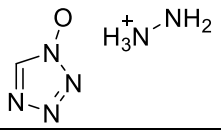
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
397	[99]		307	10.1	-	-	250	-10.4	278	0.7	276
398	[99]		327	-6.7	416	16.1	339	-2.9	361	3.3	349
399	[99]		323	-4	406	17.2	325	-3.4	351	4.3	336
400	[99]		305	-5.2	411	21.9	317	-1.3	344	6.7	321
401	[99]		315	9.8	-	-	265	-7.2	290	2.1	284
402	[99]		266	13.2	285	18.9	226	-2.2	259	10.8	231
403	[99]		218	25.2	185	11.9	164	0.6	189	13.8	163
404	[99]		263	11.8	296	21.6	224	-3.6	261	11.1	232
405	[99]		301	10	355	23.7	263	-3	306	11.4	271
406	[99]		246	11.4	244	10.7	210	-3.8	233	6.4	218
407	[99]		276	10.5	310	20.3	242	-2.1	276	10.5	247
408	[99]		214	21.5	130	-29.2	160	-5	168	0	168

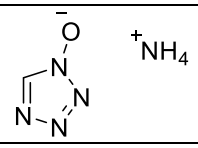
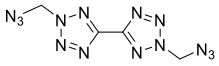
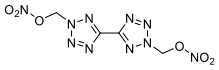
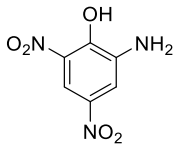
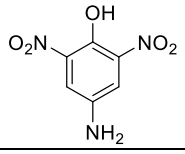
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
409	[99]		245	15.9	285	27.7	205	-0.5	245	15.9	206
410	[99]		266	13.5	296	22.3	227	-1.3	263	12.5	230
411	[99]		293	8.9	355	24.8	261	-2.3	303	11.9	267
412	[99]		293	10.9	352	25.9	253	-3.2	299	12.7	261
413	[99]		264	12.5	322	28.3	221	-4.5	269	14.1	231
414	[99]		318	0.6	398	20.6	305	-3.6	340	7.1	316
415	[99]		289	0.3	363	20.7	279	-3.2	310	7.1	288
416	[99]		334	-2.4	405	15.6	327	-4.6	355	3.7	342
417	[99]		297	11.4	352	25.3	252	-4.4	300	12.3	263
418	[99]		329	0.6	403	18.9	309	-5.8	347	5.8	327
419	[99]		318	0	403	21.1	301	-5.6	341	6.7	318
420	[99]		329	8.8	345	13	283	-6	319	6	300
421	[99]		369	6.5	397	13.1	326	-5.8	364	5.2	345

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
422	[99]		344	6.7	402	20.1	299	-7.4	348	7.8	321
423	[99]		241	22	222	15.3	183	-2.7	215	12.6	188
424	[99]		259	16.6	230	6.1	200	-8	230	6.1	216
425	[99]		264	3	353	27.5	240	-6.7	286	10.5	256
426	[99]		277	-16.2	416	22.6	270	-19.3	321	-0.3	322
427	[99]		273	8.8	312	20.2	236	-5.5	274	9.1	249
428	[99]		324	1.9	420	24.3	274	-16.1	339	6.2	318
429	[99]		277	9	312	19.2	237	-6.3	275	8.4	252
430	[100]		237	13.9	-	-	174	-17.2	206	1	204
431	[100]		246	15.9	-	-	178	-16.3	212	2.4	207
432	[101]		223	13.5	92	-109.8	182	-6	166	-16.3	193
433	[101]		369	-0.5	414	10.4	340	-9.1	374	0.8	371
434	[101]		379	-0.5	396	3.8	369	-3.3	381	0	381

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
435	[101]		458	12.4	436	8	407	1.5	434	7.6	401
436	[101]		362	11.9	399	20.1	306	-4.2	356	10.4	319
437	[101]		313	-11.5	410	14.9	341	-2.3	355	1.7	349
438	[101]		215	-6.5	360	36.4	222	-3.2	266	13.9	229
439			201	-31.8	372	28.8	254	-4.3	276	4	265
440	[101]		213	-30	402	31.1	273	-1.5	296	6.4	277
441			301	12.3	334	21	266	0.8	300	12	264
442	[101]		300	3	347	16.1	276	-5.4	308	5.5	291
443	[101]		269	0.4	347	22.8	255	-5.1	290	7.6	268
444	[101]		354	7.9	384	15.1	312	-4.5	350	6.9	326
445	[101]		340	-5.3	411	12.9	339	-5.6	363	1.4	358
446	[101]		357	0	419	14.8	344	-3.8	373	4.3	357
447	[101]		258	4.3	380	35	244	-1.2	294	16	247
448	[101]		246	-4.9	387	33.3	256	-0.8	296	12.8	258

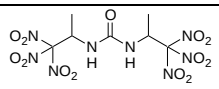
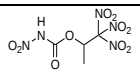
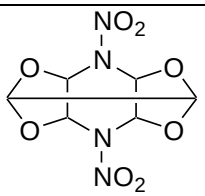
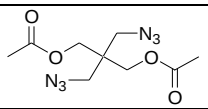
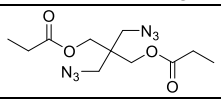
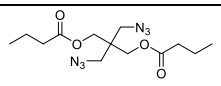
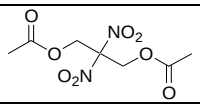
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
449	[101]		252	-7.1	402	32.8	267	-1.1	307	12.1	270
450	[101]		296	8.4	363	25.3	261	-3.8	307	11.7	271
451	[101]		309	6.8	370	22.2	276	-4.3	318	9.4	288
452	[101]		284	7.4	370	28.9	255	-3.1	303	13.2	263
453	[102]		392	-3	343	-17.8	363	-11.3	366	-10.4	403.9
454	[103]		363	14.9	418	26.1	287	-7.7	356	13.2	309
455	[103]		350	25.1	390	32.8	252	-4	331	20.8	262
456	[103]		302	13.9	418	37.8	255	-2	325	20	260
457	[103]		264	-18.6	364	14	262	-19.5	297	-5.4	313
458	[103]		230	-8.3	364	31.6	226	-10.2	273	8.8	249
459	[104]		363	3.2	425	17.3	317	-10.9	368	4.5	351.4
461	[38]		278	19.4	259	13.5	244	8.2	260	13.8	224

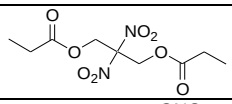
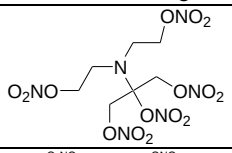
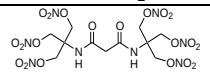
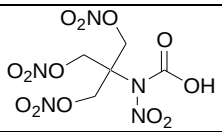
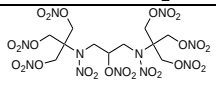
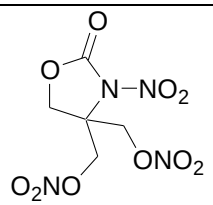
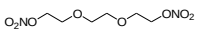
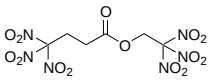
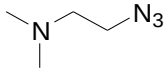
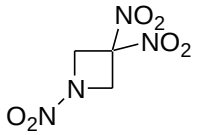
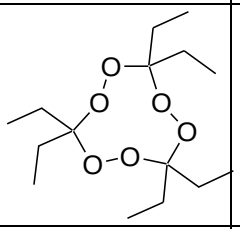
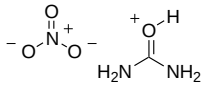
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
462	[38]		239	24.7	196	8.2	237	24.1	224	19.6	180
463	[24]		187	4.3	-	-	151	29.1	169	15.4	195
465	[105]		376	12	364	9.1	327	-1.2	356	7	331
466	[105]		373	10.5	341	2.1	321	-4	345	3.2	334
467	[105]		362	24.6	290	5.9	265	-3	306	10.8	273
468	[105]		387	15.5	390	16.2	321	-1.9	366	10.7	327
469	[105]		310	11	371	25.6	263	-4.9	315	12.4	276
470	[105]		289	3.8	319	12.9	238	-16.8	282	1.4	278
474	[106]		271	0.7	354	24	265	-1.5	297	9.4	269
475	[106]		280	-18.2	366	9.6	259	-27.8	302	-9.6	331
476	[106]		241	-32.4	122	-161.5	253	-26.1	205	-55.6	319

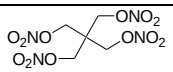
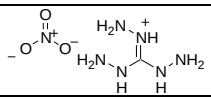
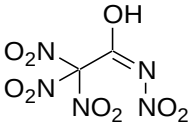
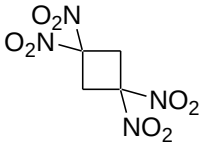
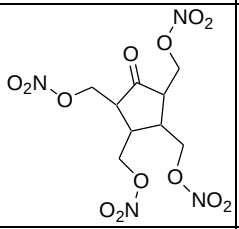
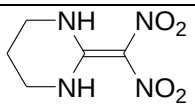
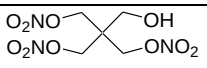
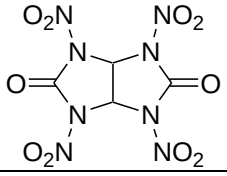
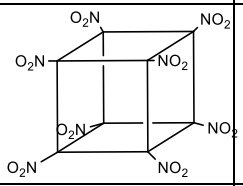
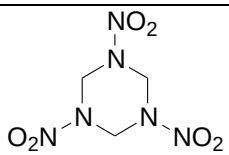
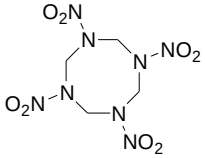
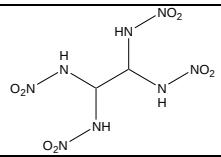
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
477	[106]		250	14.8	131	-62.6	240	11.3	207	-2.9	213
478	[107]		281	15.7	-	-	230	-3	256	7.4	237
479	[107]		326	12.3	389	26.5	284	-0.7	333	14.1	286
480	[108]		249	34.9	146	-11	193	16.1	196	17.3	162
481	[109]		279	19.4	146	-54.1	246	8.5	224	-0.4	225

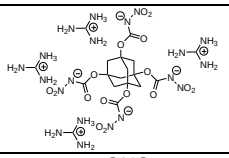
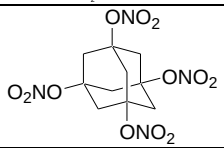
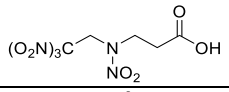
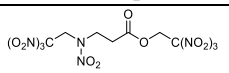
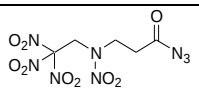
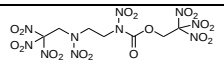
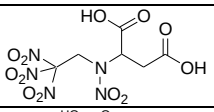
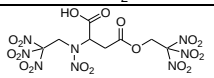
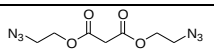
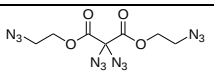
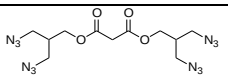
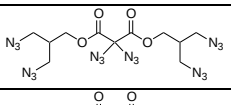
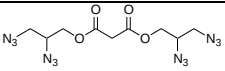
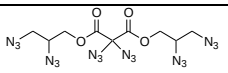
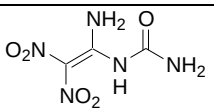
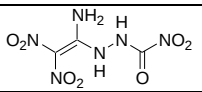
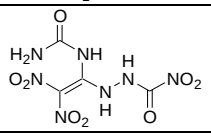
2.3.6 The detonation pressure of non-aromatic compounds

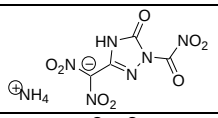
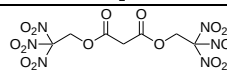
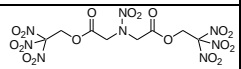
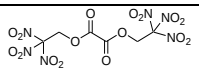
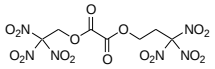
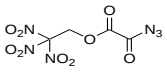
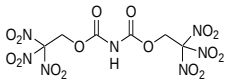
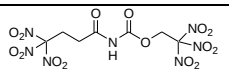
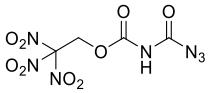
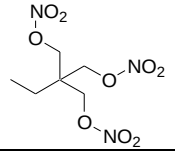
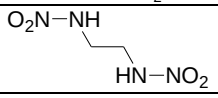
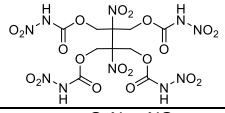
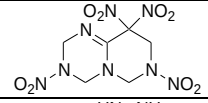
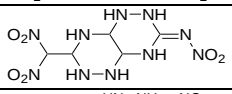
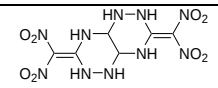
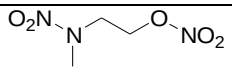
Table 57. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the non-aromatic compounds.

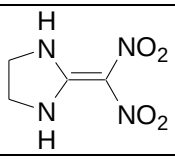
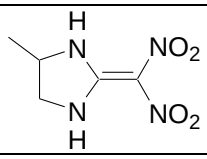
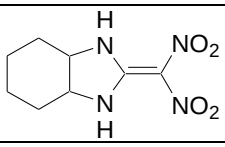
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
1	[22]		328	2.1	328	2.1	326	1.5	327	1.8	321
2	[22]		259	12	345	33.9	259	12	259	12	228
3	[23] [24]		394	12.9	187	-83.4	311	-10.3	319	-7.5	343
26	[35]		109	27.5	-64	223.4	81	2.5	28	-182.1	79
27	[35]		89	19.1	-133	154.1	68	-5.9	12	-500	72
28	[35]		68	8.8	-191	132.5	54	-14.8	-34	282.4	62
29	[35]		154	35.1	47	-112.8	122	18	108	7.4	100

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
30	[35]		116	35.3	-23	426.1	93	19.4	93	19.4	75
31	[36]		309	-	291	-	301	-	300	-	-
32	[36]		269	-	248	-	265	-	261	-	-
33	[36]		333	-	310	-	312	-	318	-	-
34	[36]		383	14.4	326	-0.6	349	6	353	7.1	328
35	[36]		358	12.6	260	-20.4	300	-4.3	306	-2.3	313
44	[38]		164	12.8	90	-58.9	153	6.5	136	-5.1	143
45	[38]		353	5.1	340	1.5	330	-1.5	341	1.8	335
46	[24]		63	-15.9	-	-	49	-49	56	-30.4	73
48	[41]		358	-2	354	-3.1	368	0.8	360	-1.4	365
49	[42]		79	-44.3	-389	129.3	69	-65.2	-120	195	114
50	[43]		271	12.9	330	28.5	221	-6.8	274	13.9	236

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
51	[44]		336	6	298	-6	328	3.7	321	1.6	316
53	[38]		181	-54.1	368	24.2	222	-25.7	257	-8.6	279
54	[38]		392	41.3	307	25.1	395	41.8	365	37	230
55	[38]		359	5.6	344	1.5	354	4.2	352	3.7	339
56	[38]		227	10.6	177	-14.7	216	6	207	1.9	203
59	[47]		230	-0.9	131	-77.1	226	-2.7	196	-18.4	232
60	[38]		241	-5	248	-2	237	-6.8	242	-4.5	253
61	[38]		479	16.1	370	-8.6	434	7.4	428	6.1	402
62	[38]		441	4.3	377	-11.9	420	-0.5	413	-2.2	422
64	[26]		341	0.3	378	10.1	340	0	353	3.7	340
65	[38]		398	4.3	388	1.8	384	0.8	390	2.3	381
66	[38]		345	-13.6	445	11.9	421	6.9	404	3	392

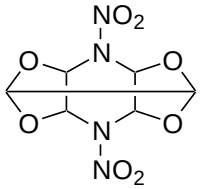
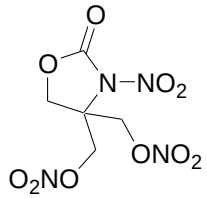
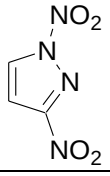
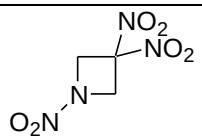
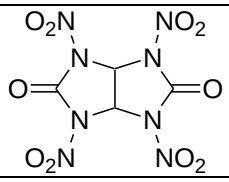
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
76	[49]		68	-133.8	182	12.6	160	0.6	137	-16.1	159
77	[49]		253	9.5	156	-46.8	234	2.1	214	-7	229
78	[50]		313	11.5	299	7.4	287	3.5	300	7.7	277
79	[50]		338	13.6	351	16.8	313	6.7	334	12.6	292
80	[50]		310	6.1	356	18.3	294	1	320	9.1	291
81	[50]		428	14.7	384	4.9	387	5.7	400	8.8	365
82	[50]		291	19.6	266	12	248	5.6	268	12.7	234
83	[50]		306	19.3	323	23.5	270	8.5	300	17.7	247
84	[51]		162	27.2	22	-436.4	119	0.8	101	-16.8	118
85	[51]		208	18.3	217	21.7	174	2.3	200	15	170
86	[51]		148	-8.1	66	-142.4	129	-24	114	-40.4	160
87	[51]		196	7.7	195	7.2	178	-1.7	190	4.7	181
88	[51]		141	15.6	135	11.9	120	0.8	132	9.8	119
89	[51]		209	14.8	260	31.5	183	2.7	217	18	178
90	[52]		317	3.8	308	1	294	-3.7	306	0.3	305
91	[52]		307	4.6	385	23.9	320	8.4	337	13.1	293
92	[52]		260	11.2	344	32.8	262	11.8	289	20.1	231

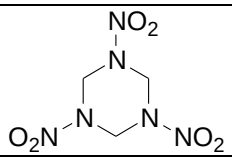
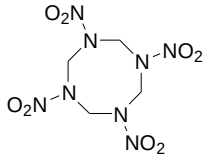
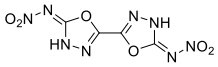
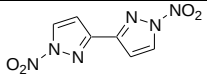
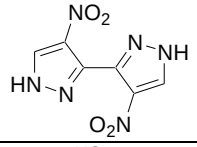
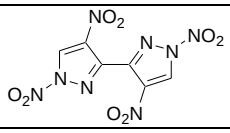
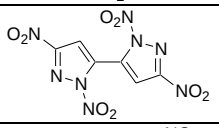
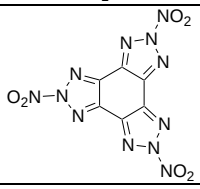
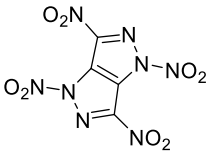
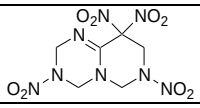
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
93	[52]		331	15.7	344	18.9	302	7.6	326	14.4	279
94	[53]		345	28.7	309	20.4	306	19.6	320	23.1	246
95	[53]		360	33.3	323	25.7	319	24.8	334	28.1	240
113	[57]		392	27	292	2.1	349	18.1	344	16.9	286
114	[57]		333	18.9	309	12.6	299	9.7	314	14	270
115	[57]		335	16.4	344	18.6	304	7.9	328	14.6	280
116	[57]		415	42.9	314	24.5	370	35.9	366	35.2	237
117	[57]		279	13.6	319	24.5	260	7.3	270	10.7	241
118	[57]		233	18.9	355	46.8	215	12.1	268	29.5	189
119	[26]		216	9.3	180	-8.9	210	6.7	202	3	196
121	[26]		292	-2.4	319	6.3	309	3.2	307	2.6	299
130	[60]		340	-	276	-	314	-	310	-	-
366	[96]		356	4.9	321	-5.5	329	-2.9	335	-1.1	338.7
367	[96]		230	-27.8	340	13.5	286	-2.8	285	-3.2	294
368	[96]		268	-31.3	352	0	334	-5.4	318	-10.7	352
460	[26]		233	-11.2	229	-13.1	236	-9.7	233	-11.2	259

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
471	[47]		253	-13	206	-38.8	244	-17.2	234	-22.2	286
472	[47]		221	-4.1	131	-75.6	217	-6	190	-21.1	230
473	[47]		173	-2.3	-17	1141.2	164	-7.9	160	-10.6	177

2.3.7 The detonation pressures of cyclic nitramines

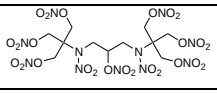
Table 58. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the cyclic nitramines.

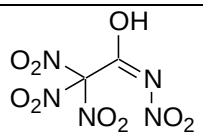
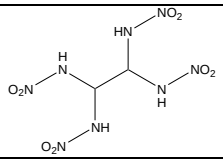
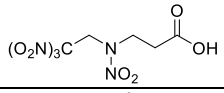
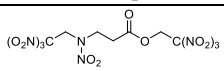
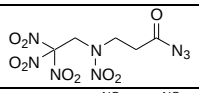
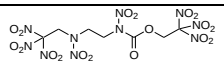
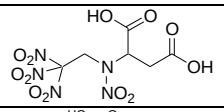
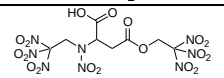
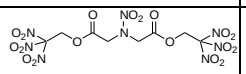
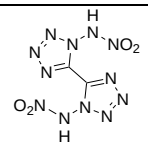
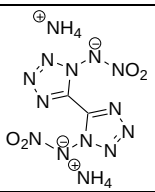
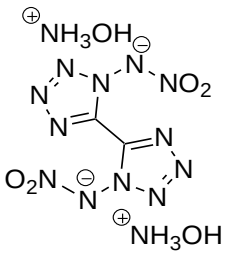
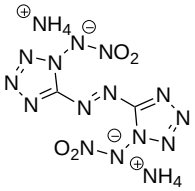
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
3	[23] [24]		394	12.9	187	-83.4	311	-10.3	319	-7.5	343
35	[36]		358	12.6	260	-20.4	300	-4.3	306	-2.3	313
37	[37]		315	2.2	367	16.1	301	-2.3	328	6.1	308
48	[41]		358	-2	354	-3.1	368	0.8	360	-1.4	365
61	[38]		479	16.1	370	-8.6	434	7.4	428	6.1	402

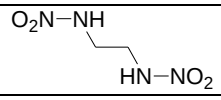
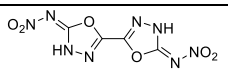
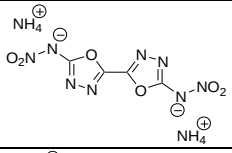
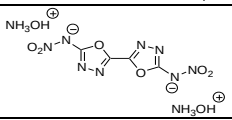
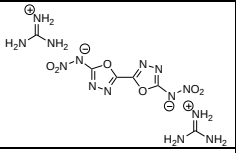
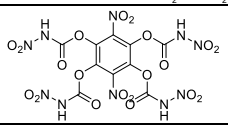
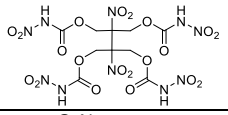
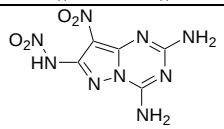
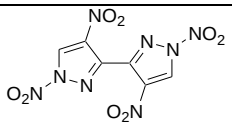
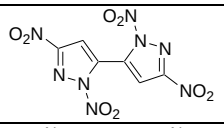
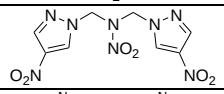
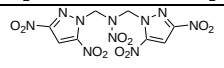
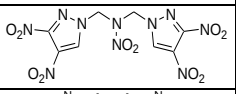
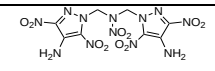
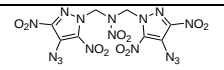
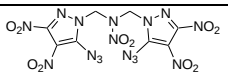
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
64	[26]		341	0.3	378	10.1	340	0	353	3.7	340
65	[38]		398	4.3	388	1.8	384	0.8	390	2.3	381
123	[58]		387	-1	343	-14	375	-4.3	368	-6.3	391
139	[64]		330	12.7	244	-18	265	-8.7	280	-2.9	288
142	[64]		308	12.7	244	-10.2	250	-7.6	267	-0.7	269
143	[64]		378	8.7	375	8	327	-5.5	360	4.2	345
144	[64]		380	6.8	375	5.6	332	-6.6	362	2.2	354
338	[96]		411	24.1	425	26.6	292	-6.8	376	17	312
342	[96]		448	8.7	462	11.5	414	1.2	441	7.3	409
366	[96]		356	4.9	321	-5.5	329	-2.9	335	-1.1	338.7

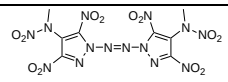
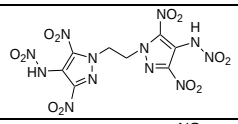
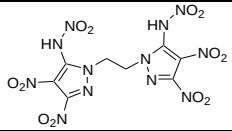
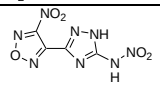
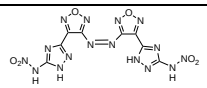
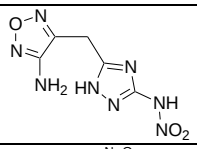
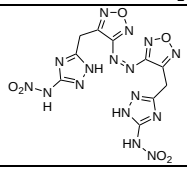
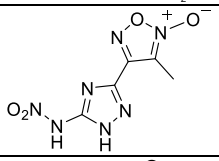
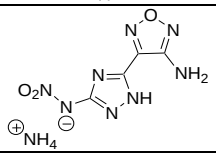
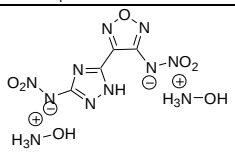
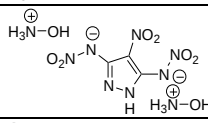
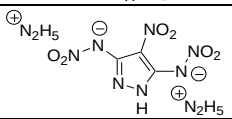
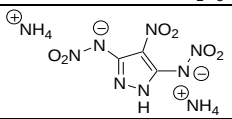
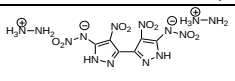
2.3.8 The detonation pressures of acyclic nitramines

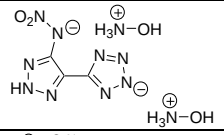
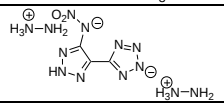
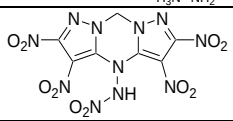
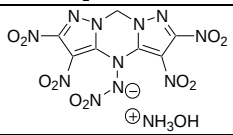
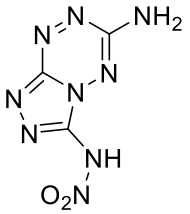
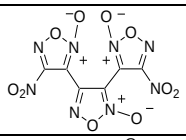
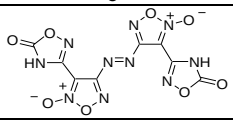
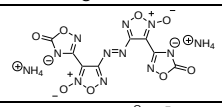
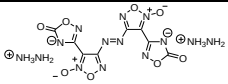
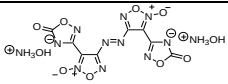
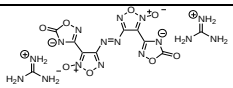
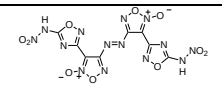
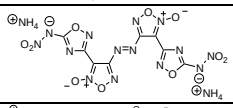
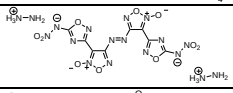
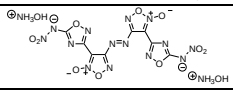
Table 59. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the acyclic nitramines.

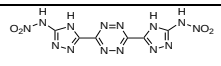
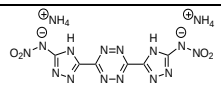
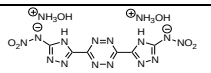
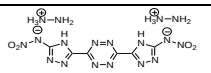
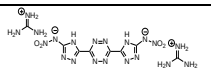
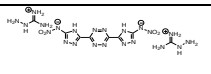
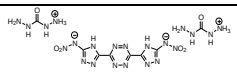
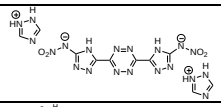
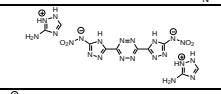
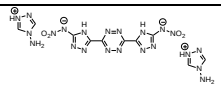
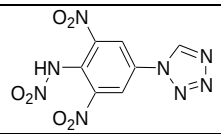
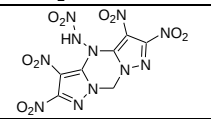
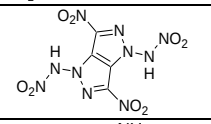
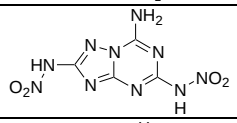
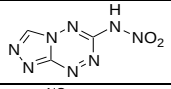
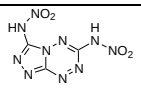
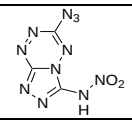
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
34	[36]		383	14.4	326	-0.6	349	6	353	7.1	328

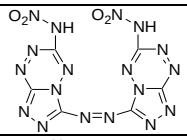
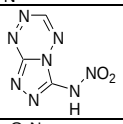
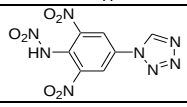
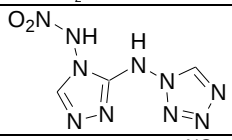
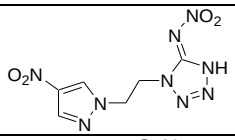
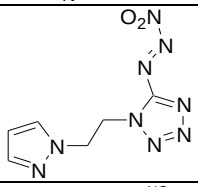
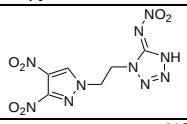
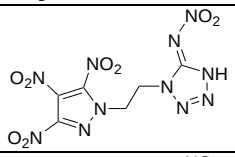
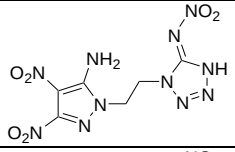
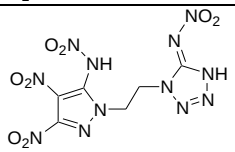
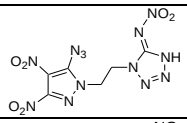
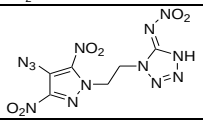
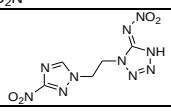
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
54	[38]		392	41.3	307	25.1	395	41.8	365	37	230
66	[38]		345	-13.6	445	11.9	421	6.9	404	3	392
78	[50]		313	11.5	299	7.4	287	3.5	300	7.7	277
79	[50]		338	13.6	351	16.8	313	6.7	334	12.6	292
80	[50]		310	6.1	356	18.3	294	1	320	9.1	291
81	[50]		428	14.7	384	4.9	387	5.7	400	8.8	365
82	[50]		291	19.6	266	12	248	5.6	268	12.7	234
83	[50]		306	19.3	323	23.5	270	8.5	300	17.7	247
95	[53]		360	33.3	323	25.7	319	24.8	334	28.1	240
109	[56]		418	-9.1	557	18.1	436	-4.6	470	3	456
110	[56]		391	7.7	506	28.7	296	-22	398	9.3	361
111	[56]		395	-5.8	529	21	397	-5.3	440	5	418
112	[56]		379	5.5	524	31.7	336	-6.5	413	13.3	358

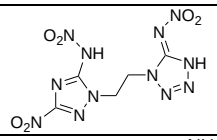
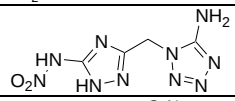
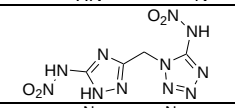
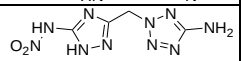
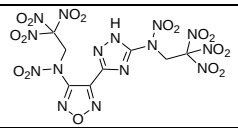
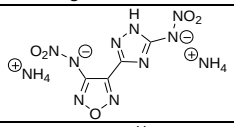
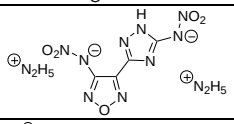
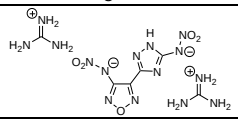
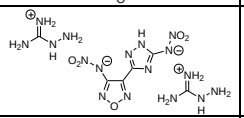
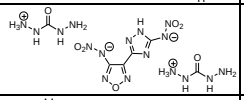
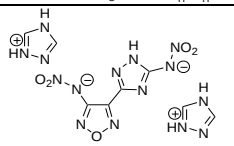
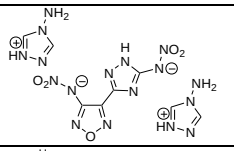
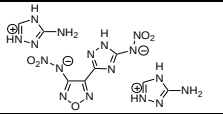
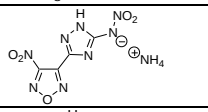
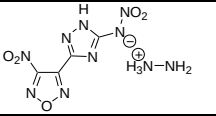
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
121	[26]		292	-2.4	319	6.3	309	3.2	307	2.6	299
123	[58]		387	-1	343	-14	375	-4.3	368	-6.3	391
124	[58]		438	20.3	351	0.6	333	-4.8	374	6.7	349
125	[58]		404	15.6	381	10.5	369	7.6	385	11.4	341
126	[58]		271	8.5	326	23.9	248	0	282	12.1	248
129	[60]		278	-	293	-	250	-	274	-	-
130	[60]		340	-	276	-	314	-	310	-	-
136	[62]		336	5.1	345	7.5	292	-9.2	324	1.5	319
143	[64]		378	8.7	375	8	327	-5.5	360	4.2	345
144	[64]		380	6.8	375	5.6	332	-6.6	362	2.2	354
150	[65]		280	10.4	242	-3.7	236	-6.4	253	0.8	251
151	[65]		343	9.9	345	10.4	299	-3.3	329	6.1	309
152	[65]		343	9.6	345	10.1	299	-3.7	329	5.8	310
153	[65]		352	1.4	361	3.9	331	-4.8	348	0.3	347
154	[65]		386	9.1	415	15.4	333	-5.4	378	7.1	351
155	[65]		386	8.8	415	15.2	333	-5.7	378	6.9	352

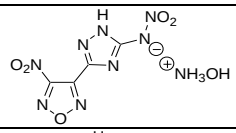
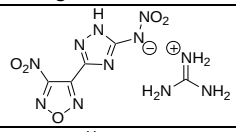
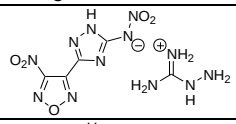
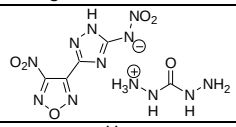
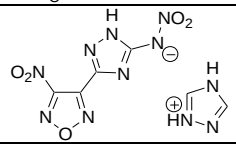
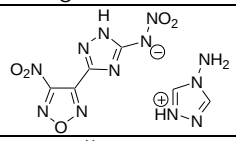
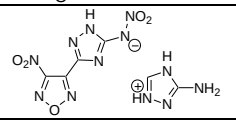
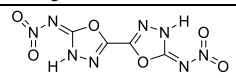
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
168	[68]6		377	8.2	402	13.9	332	-4.2	370	6.5	346
184	[70]		357	3.9	384	10.7	331	-3.6	357	3.9	343
190	[70]		353	4.5	384	12.2	327	-3.1	355	5.1	337
197	[73]		352	-2.3	420	14.3	337	-6.8	370	2.7	360
198	[73]		364	4.1	388	10.1	320	-9.1	357	2.2	349
199	[73]		258	3.5	275	9.5	238	-4.6	257	3.1	249
200	[73]		277	6.1	320	18.8	248	-4.8	282	7.8	260
201	[73]		289	2.4	300	6	269	-4.8	286	1.4	282
202	[73]		277	11.2	326	24.5	239	-2.9	281	12.5	246
203	[73]		290	-26.2	428	14.5	292	-25.3	337	-8.6	366
204	[74]		364	-9.9	451	11.3	402	0.5	406	1.5	400
205	[74]		314	-22.6	437	11.9	373	-3.2	375	-2.7	385
206	[74]		341	4.4	426	23.5	319	-2.2	362	9.9	326
207	[74]		303	-16.2	397	11.3	338	-4.1	346	-1.7	352

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
208	[74]		337	-3.3	416	16.3	330	-5.5	361	3.6	348
209	[74]		264	-14	317	5	276	-9.1	270	-11.5	301
217	[75]		412	5.8	396	2	366	-6	391	0.8	388
218	[75]		391	5.1	401	7.5	359	-3.3	384	3.4	371
239	[81]		324	3.4	411	23.8	295	-6.1	343	8.7	313
244	[83]		444	8.1	404	-1	381	-7.1	410	0.5	408
245	[84]		399	13	283	-22.6	321	-8.1	334	-3.9	347
246	[84]		323	15.5	285	4.2	246	-11	285	4.2	273
247	[84]		301	2.7	356	17.7	282	-3.9	313	6.4	293
248	[84]		337	8.9	310	1	293	-4.8	313	1.9	307
249	[84]		242	-10.3	280	4.6	198	-34.8	240	-11.3	267
250	[84]		436	5.3	386	-7	375	-10.1	399	-3.5	413
251	[84]		348	17	383	24.5	279	-3.6	337	14.2	289
252	[84]		336	5.1	394	19	310	-2.9	347	8.1	319
253	[84]		360	4.7	396	13.4	328	-4.6	361	5	343

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
272	[91]		347	8.6	400	20.8	341	7	363	12.7	317
274	[91]		345	9.9	374	16.8	293	-6.1	337	7.7	311
275	[91]		336	-12.5	406	6.9	353	-7.1	365	-3.6	378
276	[91]		290	-16.2	383	12	312	-8	328	-2.7	337
277	[91]		265	-16.6	343	9.9	277	-11.6	295	-4.7	309
278	[91]		227	-40.1	352	9.7	285	-11.6	288	-10.4	318
279	[91]		247	-35.2	387	13.7	311	-7.4	315	-6	334
280	[91]		323	1.5	325	2.2	289	-10	312	-1.9	318
281	[91]		295	-13.9	335	-0.3	296	-13.5	309	-8.7	336
282	[91]		329	1.8	335	3.6	284	-13.7	316	-2.2	323
294	[92]		304	7.9	302	7.3	267	-4.9	291	3.8	280
334	[96]		413	6.1	396	2	367	-5.7	392	1	388
344	[96]		412	-1.5	471	11.3	405	-3.2	429	2.6	418
346	[96]		333	-2.7	416	17.8	315	-8.6	355	3.7	342
351	[96]		324	6.2	416	26.9	293	-3.8	344	11.6	304
352	[96]		390	1.8	487	21.4	379	-1.1	419	8.6	383
357	[96]		371	2.2	494	26.5	333	-9	399	9	363

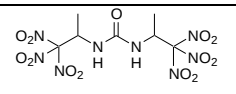
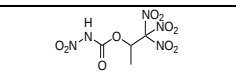
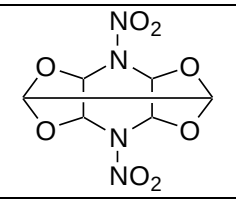
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
358	[96]		404	1.5	460	13.5	192	-107.3	352	-13.1	398
360	[96]		344	3.5	416	20.2	306	-8.5	355	6.5	332
389	[99]		304	7.9	302	7.3	267	-4.9	291	3.8	280
399	[99]		323	-4	406	17.2	325	-3.4	351	4.3	336
402	[99]		266	13.2	285	18.9	226	-2.2	259	10.8	231
403	[99]		218	25.2	185	11.9	164	0.6	189	13.8	163
411	[99]		293	8.9	355	24.8	261	-2.3	303	11.9	267
414	[99]		318	0.6	398	20.6	305	-3.6	340	7.1	316
415	[99]		289	0.3	363	20.7	279	-3.2	310	7.1	288
416	[99]		334	-2.4	405	15.6	327	-4.6	355	3.7	342
418	[99]		329	0.6	403	18.9	309	-5.8	347	5.8	327
419	[99]		318	0	403	21.1	301	-5.6	341	6.7	318
425	[99]		264	3	353	27.5	240	-6.7	286	10.5	256

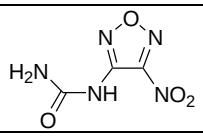
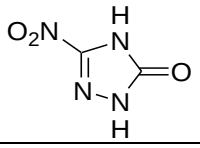
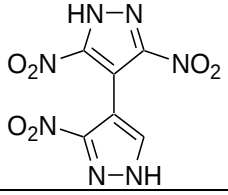
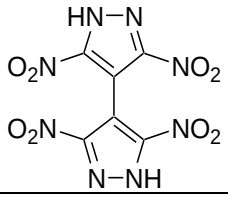
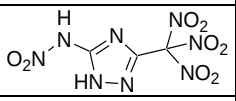
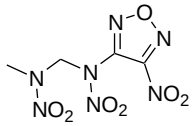
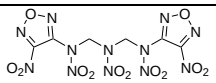
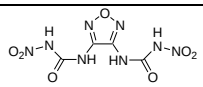
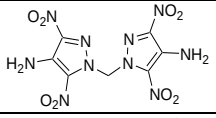
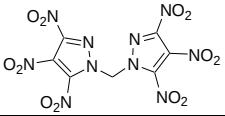
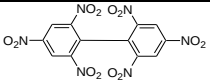
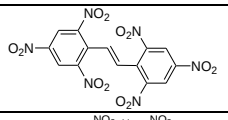
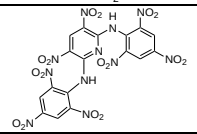
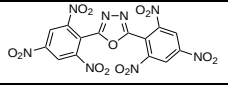
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
426	[99]		277	-16.2	416	22.6	270	-19.3	321	-0.3	322
427	[99]		273	8.8	312	20.2	236	-5.5	274	9.1	249
428	[99]		324	1.9	420	24.3	274	-16.1	339	6.2	318
429	[99]		277	9	312	19.2	237	-6.3	275	8.4	252
435	[101]		458	12.4	436	8	407	1.5	434	7.6	401
436	[101]		362	11.9	399	20.1	306	-4.2	356	10.4	319
437	[101]		313	-11.5	410	14.9	341	-2.3	355	1.7	349
438	[101]		215	-6.5	360	36.4	222	-3.2	266	13.9	229
439			201	-31.8	372	28.8	254	-4.3	276	4	265
440	[101]		213	-30	402	31.1	273	-1.5	296	6.4	277
441			301	12.3	334	21	266	0.8	300	12	264
442	[101]		300	3	347	16.1	276	-5.4	308	5.5	291
443	[101]		269	0.4	347	22.8	255	-5.1	290	7.6	268
444	[101]		354	7.9	384	15.1	312	-4.5	350	6.9	326
445	[101]		340	-5.3	411	12.9	339	-5.6	363	1.4	358

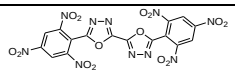
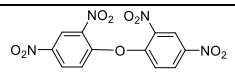
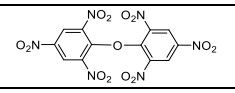
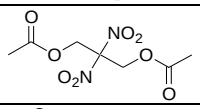
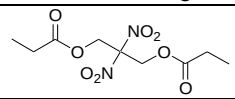
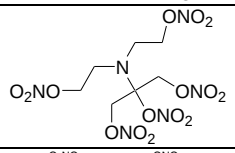
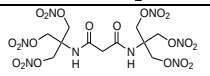
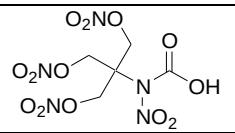
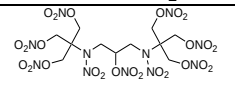
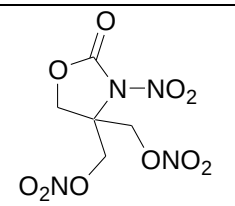
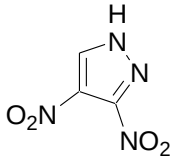
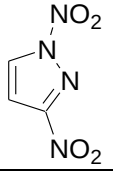
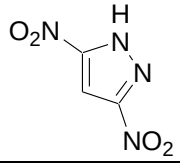
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
446	[101]		357	0	419	14.8	344	-3.8	373	4.3	357
447	[101]		258	4.3	380	35	244	-1.2	294	16	247
448	[101]		246	-4.9	387	33.3	256	-0.8	296	12.8	258
449	[101]		252	-7.1	402	32.8	267	-1.1	307	12.1	270
450	[101]		296	8.4	363	25.3	261	-3.8	307	11.7	271
451	[101]		309	6.8	370	22.2	276	-4.3	318	9.4	288
452	[101]		284	7.4	370	28.9	255	-3.1	303	13.2	263
453	[102]		392	-3	343	-17.8	363	-11.3	366	-10.4	403.9

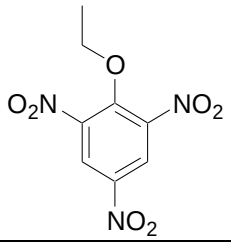
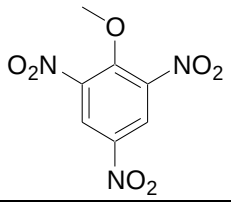
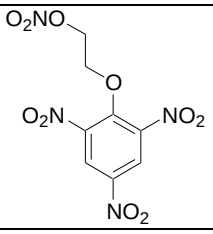
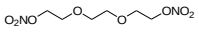
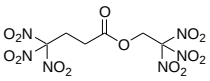
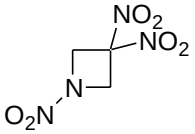
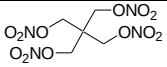
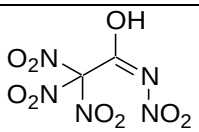
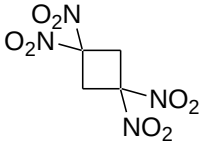
2.3.9 The detonation pressures of molecules containing nitro groups

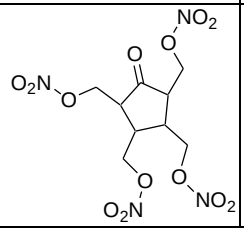
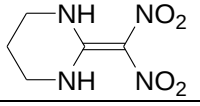
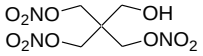
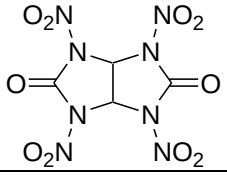
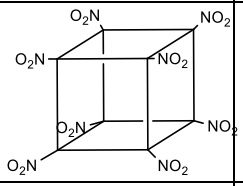
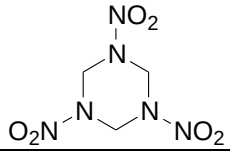
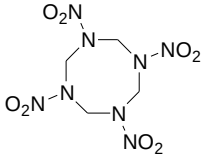
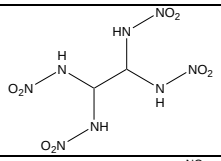
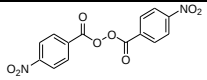
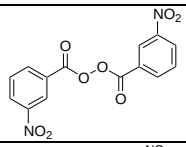
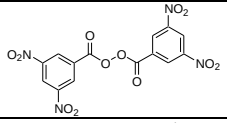
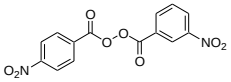
Table 60. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the molecules containing nitro groups.

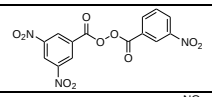
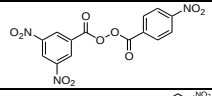
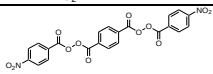
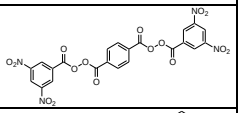
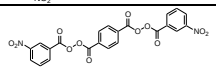
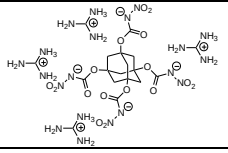
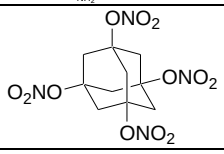
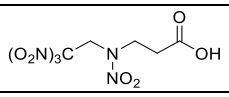
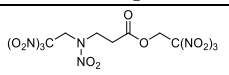
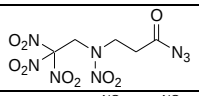
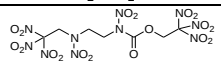
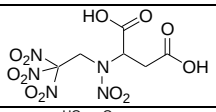
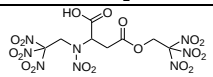
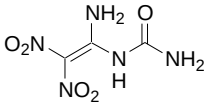
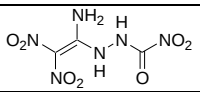
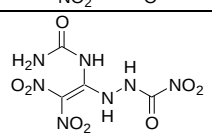
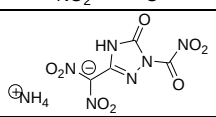
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1	[22]		328	2.1	328	2.1	326	1.5	327	1.8	321
2	[22]		259	12	345	33.9	259	12	259	12	228
3	[23] [24]		394	12.9	187	-83.4	311	-10.3	319	-7.5	343

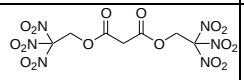
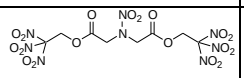
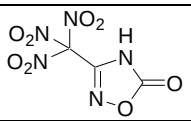
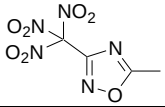
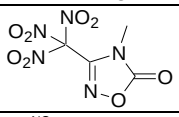
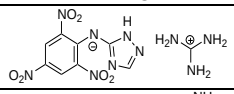
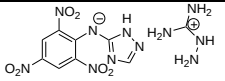
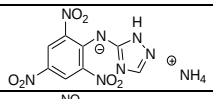
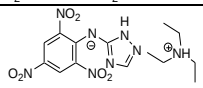
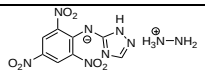
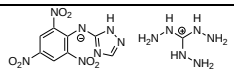
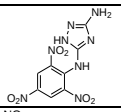
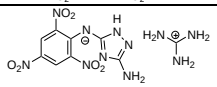
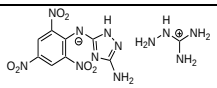
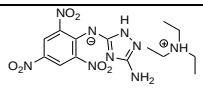
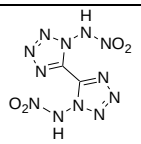
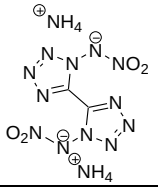
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
4	[25]		263	10.3	339	30.4	255	7.5	286	17.5	236
5	[23] [26]		351	13.1	361	15.5	300	-1.7	337	9.5	305
6	[27]		333	14.1	324	11.7	290	1.4	313	8.6	286
7	[27]		336	7.4	375	17.1	303	-2.6	338	8	311
9	[28]		384	3.9	454	18.7	406	9.1	414	10.9	369
10	[29]		322	0	401	19.7	320	-0.6	348	7.5	322
11	[29]		440	10.7	440	10.7	392	-0.3	424	7.3	393
16	[25]		317	-1.6	375	14.1	327	1.5	340	5.3	322
17	[31]		323	8.4	350	15.4	285	-3.9	319	7.2	296
18	[31]		437	10.5	402	2.7	377	-3.7	405	3.5	391
19	[32] [26]		270	9.6	226	-8	231	-5.6	242	-0.8	244
20	[32]		266	8.6	181	-34.3	230	-5.7	226	-7.5	243
21	[32]		271	7.4	240	-4.6	241	-4.1	251	0	251
22	[32] [33]		309	9.7	230	-21.3	250	-11.6	263	-6.1	279

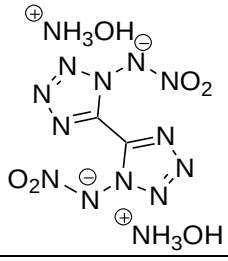
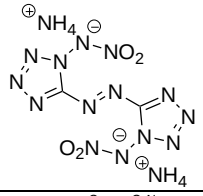
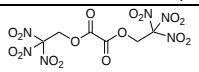
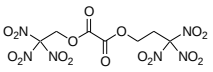
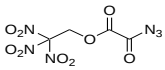
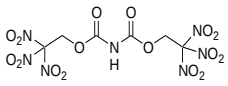
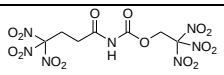
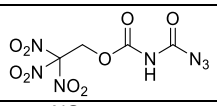
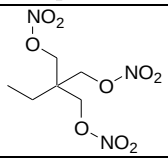
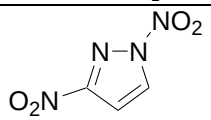
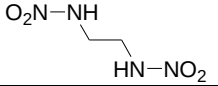
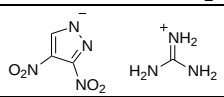
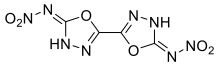
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
23	[32]		347	21.3	232	-17.7	256	-6.6	278	1.8	273
24	[34]		260	35.4	130	-29.2	202	16.8	197	14.7	168
25	[34]		329	24	239	-4.6	273	8.4	280	10.7	250
29	[35]		154	35.1	47	-112.8	122	18	108	7.4	100
30	[35]		116	35.3	-23	426.1	93	19.4	93	19.4	75
31	[36]		309	-	291	-	301	-	300	-	-
32	[36]		269	-	248	-	265	-	261	-	-
33	[36]		333	-	310	-	312	-	318	-	-
34	[36]		383	14.4	326	-0.6	349	6	353	7.1	328
35	[36]		358	12.6	260	-20.4	300	-4.3	306	-2.3	313
36	[37]		313	2.2	301	-1.7	226	-35.4	327	6.4	306
37	[37]		315	2.2	367	16.1	301	-2.3	328	6.1	308
38	[37]		309	6.5	367	21.3	290	0.3	322	10.2	289

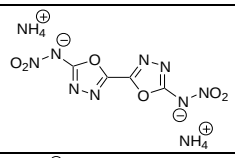
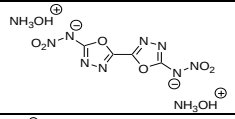
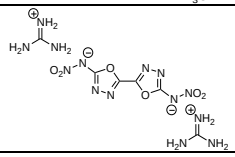
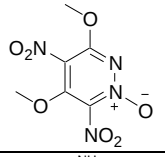
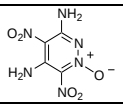
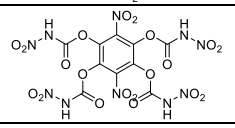
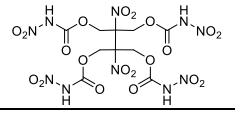
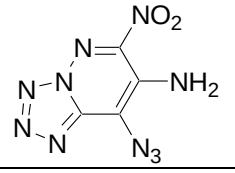
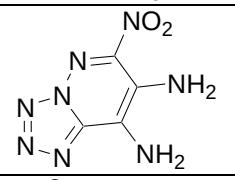
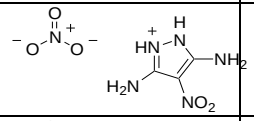
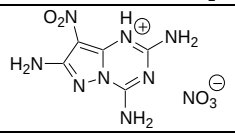
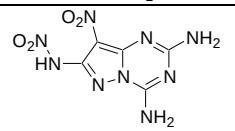
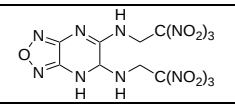
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
39	[26]		210	9	132	-44.7	184	-3.8	175	-9.1	191
40	[38]		266	23.3	178	-14.6	226	9.7	223	8.5	204
41	[38]		282	16	224	-5.8	255	7.1	254	6.7	237
44	[38]		164	12.8	90	-58.9	153	6.5	136	-5.1	143
45	[38]		353	5.1	340	1.5	330	-1.5	341	1.8	335
48	[41]		358	-2	354	-3.1	368	0.8	360	-1.4	365
51	[44]		336	6	298	-6	328	3.7	321	1.6	316
54	[38]		392	41.3	307	25.1	395	41.8	365	37	230
55	[38]		359	5.6	344	1.5	354	4.2	352	3.7	339

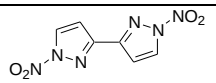
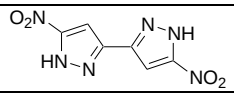
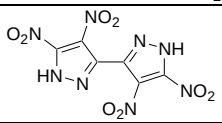
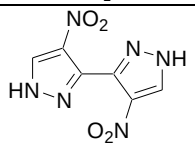
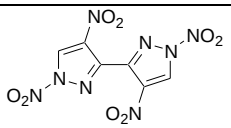
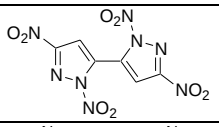
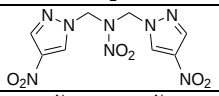
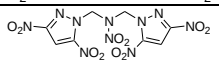
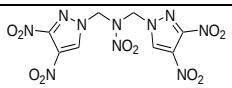
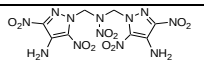
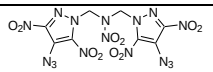
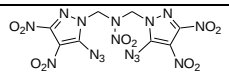
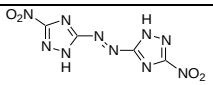
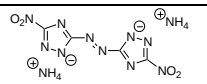
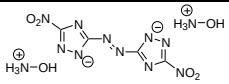
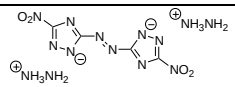
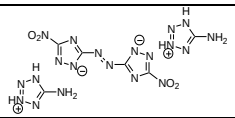
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
56	[38]		227	10.6	177	-14.7	216	6	207	1.9	203
59	[47]		230	-0.9	131	-77.1	226	-2.7	196	-18.4	232
60	[38]		241	-5	248	-2	237	-6.8	242	-4.5	253
61	[38]		479	16.1	370	-8.6	434	7.4	428	6.1	402
62	[38]		441	4.3	377	-11.9	420	-0.5	413	-2.2	422
64	[26]		341	0.3	378	10.1	340	0	353	3.7	340
65	[38]		398	4.3	388	1.8	384	0.8	390	2.3	381
66	[38]		345	-13.6	445	11.9	421	6.9	404	3	392
67	[48]		194	33	-64	303.1	137	5.1	134	3	130
68	[48]		194	33	-64	303.1	137	5.1	134	3	130
69	[48]		252	20.6	94	-112.8	202	1	183	-9.3	200
70	[48]		211	57.3	-64	240.6	148	39.2	148	39.2	90

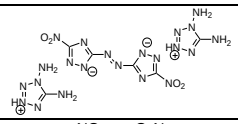
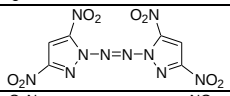
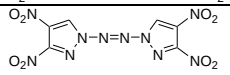
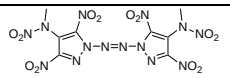
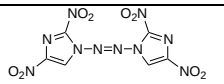
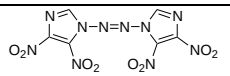
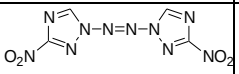
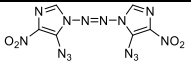
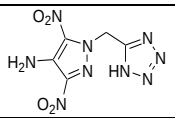
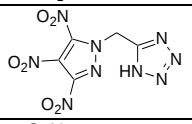
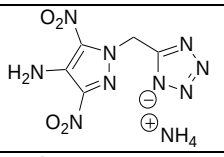
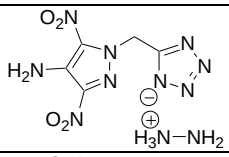
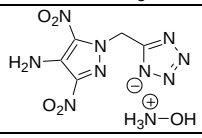
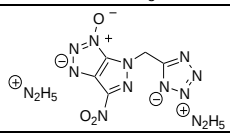
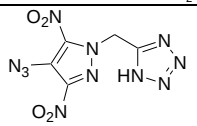
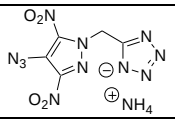
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
71	[48]		233	22.7	25	-620	178	-1.1	145	-24.1	180
72	[48]		230	26.1	25	-580	176	3.4	144	-18.1	170
73	[48]		128	29.7	-116	177.6	104	13.5	58	-55.2	90
74	[48]		160	18.8	4	-3150	138	5.8	101	-28.7	130
75	[48]		126	28.6	-116	177.6	138	34.8	74	-21.6	90
76	[49]		68	-133.8	182	12.6	160	0.6	137	-16.1	159
77	[49]		253	9.5	156	-46.8	234	2.1	214	-7	229
78	[50]		313	11.5	299	7.4	287	3.5	300	7.7	277
79	[50]		338	13.6	351	16.8	313	6.7	334	12.6	292
80	[50]		310	6.1	356	18.3	294	1	320	9.1	291
81	[50]		428	14.7	384	4.9	387	5.7	400	8.8	365
82	[50]		291	19.6	266	12	248	5.6	268	12.7	234
83	[50]		306	19.3	323	23.5	270	8.5	300	17.7	247
90	[52]		317	3.8	308	1	294	-3.7	306	0.3	305
91	[52]		307	4.6	385	23.9	320	8.4	337	13.1	293
92	[52]		260	11.2	344	32.8	262	11.8	289	20.1	231
93	[52]		331	15.7	344	18.9	302	7.6	326	14.4	279

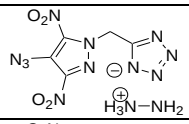
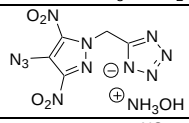
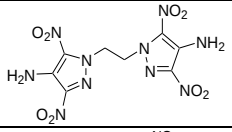
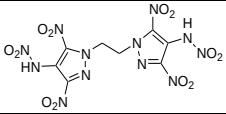
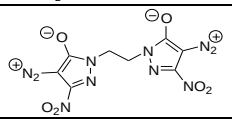
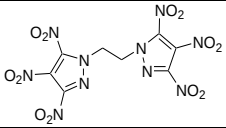
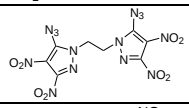
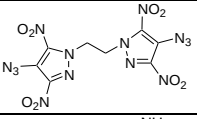
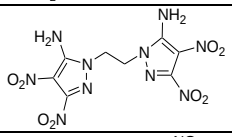
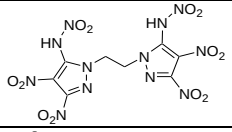
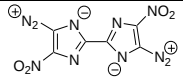
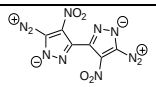
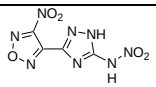
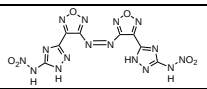
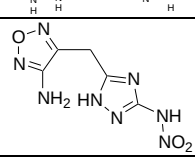
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
94	[53]		345	28.7	309	20.4	306	19.6	320	23.1	246
95	[53]		360	33.3	323	25.7	319	24.8	334	28.1	240
96	[54]		407	18.7	372	11	430	23	403	17.9	331
97	[54]		357	3.1	382	9.4	339	-2.1	359	3.6	346
98	[54]		346	0	328	-5.5	349	0.9	341	-1.5	346
99	[55]		218	3.2	242	12.8	207	-1.9	222	5	211
100	[55]		247	-8.5	254	-5.5	249	-7.6	250	-7.2	268
101	[55]		321	10	242	-19.4	268	-7.8	277	-4.3	289
102	[55]		154	-2.6	42	-276.2	146	-8.2	114	-38.6	158
103	[55]		223	1.3	256	14.1	217	-1.4	232	5.2	220
104	[55]		170	-22.4	275	24.4	206	-1	217	4.1	208
105	[55]		296	6.1	256	-8.6	256	-8.6	269	-3.3	278
106	[55]		188	1.6	254	27.2	186	0.5	209	11.5	185
107	[55]		197	-8.6	265	19.2	210	-1.9	224	4.5	214
108	[55]		150	-0.7	60	-151.7	140	-7.9	117	-29.1	151
109	[56]		418	-9.1	557	18.1	436	-4.6	470	3	456
110	[56]		391	7.7	506	28.7	296	-22	398	9.3	361

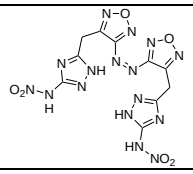
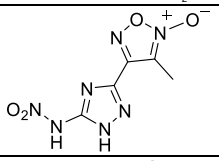
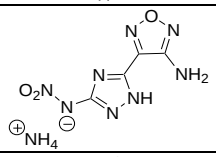
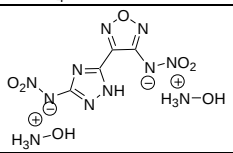
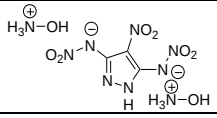
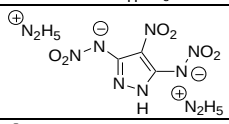
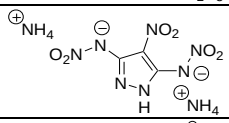
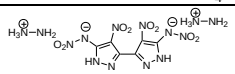
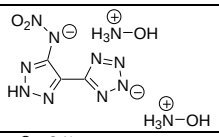
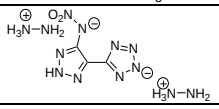
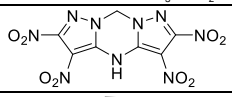
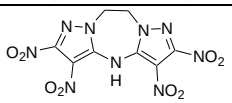
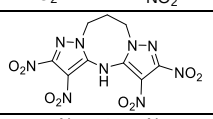
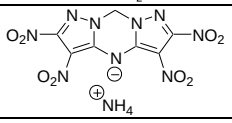
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
111	[56]		395	-5.8	529	21	397	-5.3	440	5	418
112	[56]		379	5.5	524	31.7	336	-6.5	413	13.3	358
113	[57]		392	27	292	2.1	349	18.1	344	16.9	286
114	[57]		333	18.9	309	12.6	299	9.7	314	14	270
115	[57]		335	16.4	344	18.6	304	7.9	328	14.6	280
116	[57]		415	42.9	314	24.5	370	35.9	366	35.2	237
117	[57]		279	13.6	319	24.5	260	7.3	270	10.7	241
118	[57]		233	18.9	355	46.8	215	12.1	268	29.5	189
119	[26]		216	9.3	180	-8.9	210	6.7	202	3	196
120	[37]		315	2.9	367	16.6	301	-1.7	328	6.7	306
121	[26]		292	-2.4	319	6.3	309	3.2	307	2.6	299
122	[37]		230	-20	317	12.9	222	-24.3	256	-7.8	276
123	[58]		387	-1	343	-14	375	-4.3	368	-6.3	391

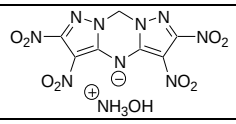
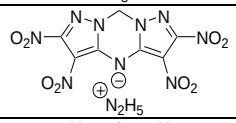
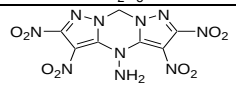
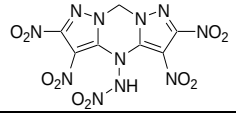
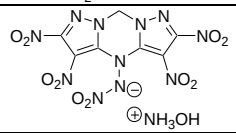
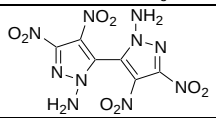
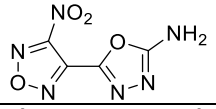
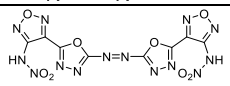
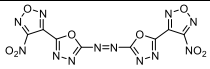
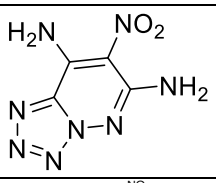
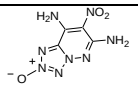
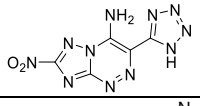
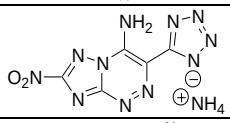
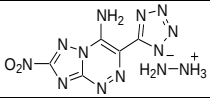
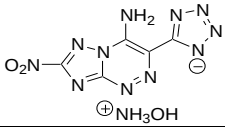
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
124	[58]		438	20.3	351	0.6	333	-4.8	374	6.7	349
125	[58]		404	15.6	381	10.5	369	7.6	385	11.4	341
126	[58]		271	8.5	326	23.9	248	0	282	12.1	248
127	[59]		241	13.7	217	4.1	220	5.5	226	8	208
128	[59]		318	5	358	15.6	307	1.6	328	7.9	302
129	[60]		278	-	293	-	250	-	274	-	-
130	[60]		340	-	276	-	314	-	310	-	-
131	[61]		344	8.4	403	21.8	291	-8.2	346	9	315
132	[61]		314	11.8	307	9.8	258	-7.4	293	5.5	277
133	[62]		270	-10.4	367	18.8	292	-2.1	310	3.9	298
135	[62]		300	6	350	19.4	270	-4.4	307	8.1	282
136	[62]		336	5.1	345	7.5	292	-9.2	324	1.5	319
138	[63]		310	-3.5	375	14.4	315	-1.9	333	3.6	321

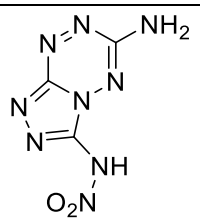
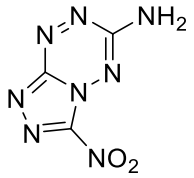
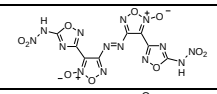
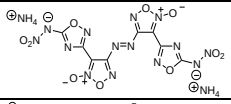
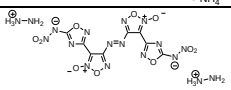
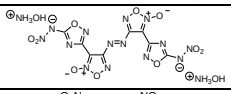
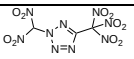
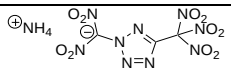
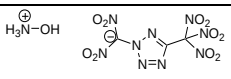
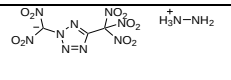
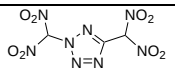
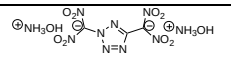
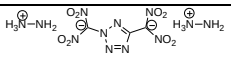
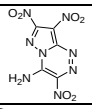
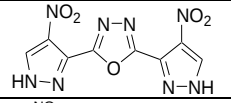
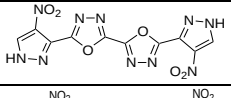
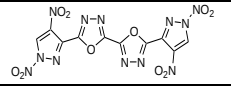
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
139	[64]		330	12.7	244	-18	265	-8.7	280	-2.9	288
140	[64]		301	13	244	-7.4	245	-6.9	263	0.4	262
141	[64]		344	6.1	375	13.9	293	-10.2	337	4.2	323
142	[64]		308	12.7	244	-10.2	250	-7.6	267	-0.7	269
143	[64]		378	8.7	375	8	327	-5.5	360	4.2	345
144	[64]		380	6.8	375	5.6	332	-6.6	362	2.2	354
150	[65]		280	10.4	242	-3.7	236	-6.4	253	0.8	251
151	[65]		343	9.9	345	10.4	299	-3.3	329	6.1	309
152	[65]		343	9.6	345	10.1	299	-3.7	329	5.8	310
153	[65]		352	1.4	361	3.9	331	-4.8	348	0.3	347
154	[65]		386	9.1	415	15.4	333	-5.4	378	7.1	351
155	[65]		386	8.8	415	15.2	333	-5.7	378	6.9	352
156	[66]		365	4.9	440	21.1	323	-7.4	376	7.7	347
157	[66]		349	15.5	402	26.6	279	-5.7	343	14	295
158	[66]		356	7.3	436	24.3	315	-4.8	369	10.6	330
159	[66]		314	-4.8	410	19.8	310	-6.1	345	4.6	329
160	[66]		293	11.9	433	40.4	266	3	331	22.1	258

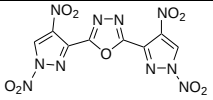
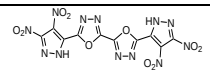
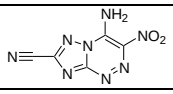
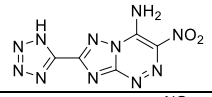
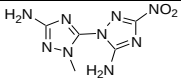
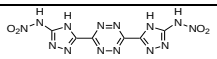
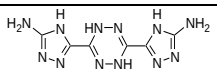
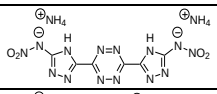
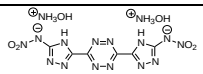
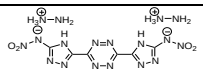
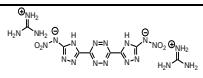
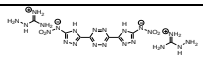
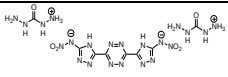
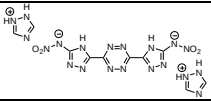
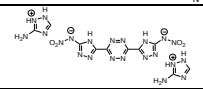
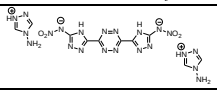
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
161	[66]		329	10.6	436	32.6	271	-8.5	345	14.8	294
166	[68]4		368	5.4	403	13.6	326	-6.7	366	4.9	348
167	[68]5		372	5.6	403	12.9	330	-6.4	368	4.6	351
168	[68]6		377	8.2	402	13.9	332	-4.2	370	6.5	346
169	[68]7		385	7.5	403	11.7	333	-6.9	374	4.8	356
170	[68]8		376	6.6	403	12.9	328	-7	369	4.9	351
171	[68]		362	7.5	440	23.9	311	-7.7	371	9.7	335
172	[68]		342	8.2	418	24.9	285	-10.2	348	9.8	314
173	[69]		329	8.8	345	13	283	-6	319	6	300
174	[69]		369	6.5	397	13.1	326	-5.8	364	5.2	345
175	[69]		288	12.8	331	24.2	247	-1.6	289	13.1	251
176	[69]		255	-0.4	339	24.5	249	-2.8	281	8.9	256
177	[69]		306	2.6	355	16.1	287	-3.8	316	5.7	298
178	[69]		277	-4.3	322	10.2	267	-8.2	289	0	289
179	[69]		344	6.7	402	20.1	299	-7.4	348	7.8	321
180	[69]		292	11.6	386	33.2	251	-2.8	310	16.8	258

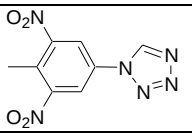
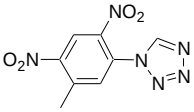
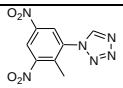
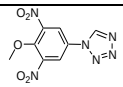
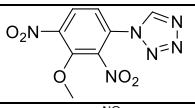
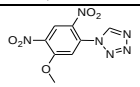
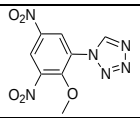
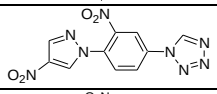
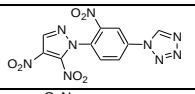
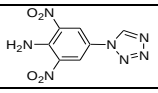
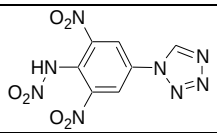
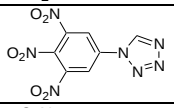
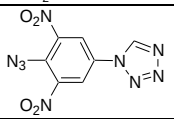
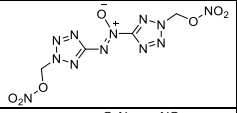
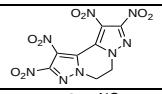
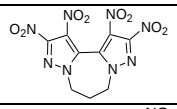
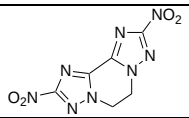
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
181	[69]		299	0.7	391	24	286	-3.8	325	8.6	297
182	[69]		331	2.7	403	20.1	305	-5.6	346	6.9	322
183	[70]		299	6.7	313	10.9	268	-4.1	293	4.8	279
184	[70]		357	3.9	384	10.7	331	-3.6	357	3.9	343
185	[70]		299	19.1	307	21.2	233	-3.9	280	13.6	242
186	[70]		382	10.7	370	7.8	329	-3.6	360	5.3	341
187	[70]		347	3.7	383	12.8	311	-7.4	347	3.7	334
188	[70]		338	8.3	383	19.1	292	-6.2	338	8.3	310
189	[70]		292	6.5	313	12.8	263	-3.8	289	5.5	273
190	[70]		353	4.5	384	12.2	327	-3.1	355	5.1	337
195	[72]		354	12.1	380	18.2	281	-10.7	338	8	311
196	[72]		362	6.1	380	10.5	302	-12.6	348	2.3	340
197	[73]		352	-2.3	420	14.3	337	-6.8	370	2.7	360
198	[73]		364	4.1	388	10.1	320	-9.1	357	2.2	349
199	[73]		258	3.5	275	9.5	238	-4.6	257	3.1	249

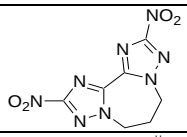
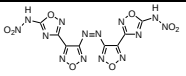
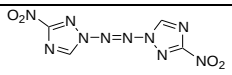
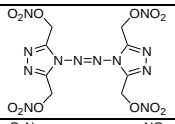
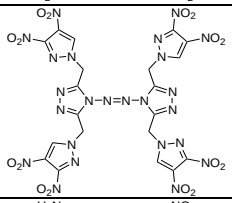
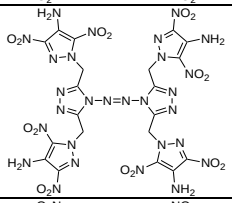
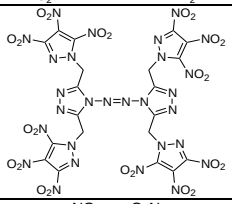
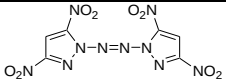
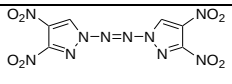
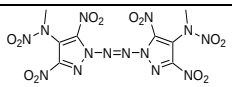
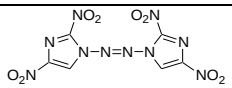
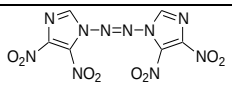
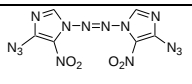
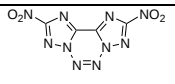
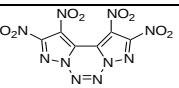
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
200	[73]		277	6.1	320	18.8	248	-4.8	282	7.8	260
201	[73]		289	2.4	300	6	269	-4.8	286	1.4	282
202	[73]		277	11.2	326	24.5	239	-2.9	281	12.5	246
203	[73]		290	-26.2	428	14.5	292	-25.3	337	-8.6	366
204	[74]		364	-9.9	451	11.3	402	0.5	406	1.5	400
205	[74]		314	-22.6	437	11.9	373	-3.2	375	-2.7	385
206	[74]		341	4.4	426	23.5	319	-2.2	362	9.9	326
207	[74]		303	-16.2	397	11.3	338	-4.1	346	-1.7	352
208	[74]		337	-3.3	416	16.3	330	-5.5	361	3.6	348
209	[74]		264	-14	317	5	276	-9.1	270	-11.5	301
210	[75]		373	8	352	2.6	323	-6.2	349	1.7	343
211	[75]		323	9.6	313	6.7	277	-5.4	304	3.9	292
212	[75]		297	8.4	276	1.4	258	-5.4	277	1.8	272
213	[75]		359	11.7	350	9.4	302	-5	337	5.9	317

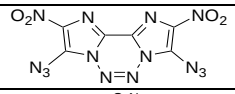
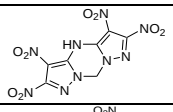
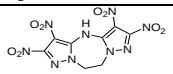
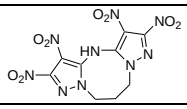
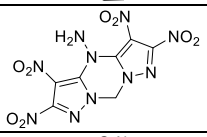
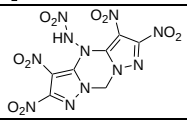
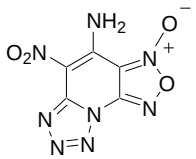
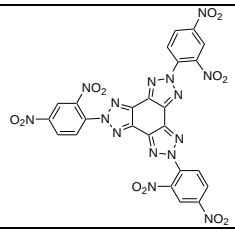
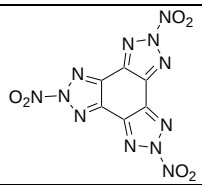
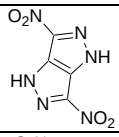
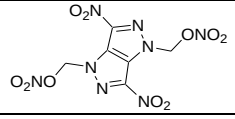
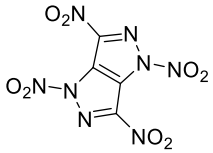
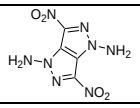
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
214	[75]		367	2.2	361	0.6	331	-8.5	353	-1.7	359
215	[75]		337	1.5	359	7.5	315	-5.4	337	1.5	332
216	[75]		333	11.1	361	18	285	-3.9	326	9.2	296
217	[75]		412	5.8	396	2	366	-6	391	0.8	388
218	[75]		391	5.1	401	7.5	359	-3.3	384	3.4	371
219	[76]		318	2.5	391	20.7	299	-3.7	336	7.7	310
220	[77]		313	14.1	363	25.9	260	-3.5	312	13.8	269
221	[77]		355	17.5	352	16.8	277	-5.8	328	10.7	293
222	[77]		404	13.1	379	7.4	299	-17.4	346	-1.4	351
223	[78]		340	10.9	307	1.3	271	-11.8	306	1	303
224	[78]		353	1.4	353	1.4	313	-11.2	340	-2.4	348
231	[80]		364	9.9	357	8.1	276	-18.8	332	1.2	328
233	[80]		356	19.7	318	10.1	255	-12.2	310	7.7	286
234	[80]		347	5.2	319	-3.1	284	-15.8	317	-3.8	329
235	[80]		367	9.8	361	8.3	294	-12.6	341	2.9	331

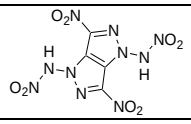
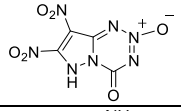
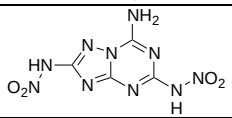
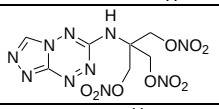
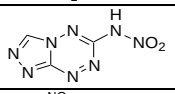
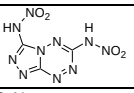
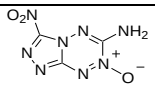
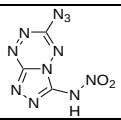
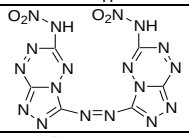
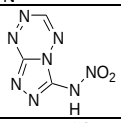
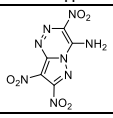
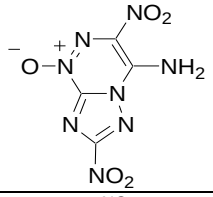
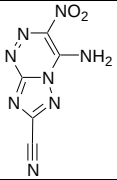
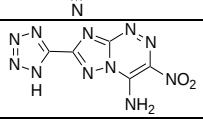
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
239	[81]		324	3.4	411	23.8	295	-6.1	343	8.7	313
240	[81]		352	3.7	416	18.5	314	-8	361	6.1	339
250	[84]		436	5.3	386	-7	375	-10.1	399	-3.5	413
251	[84]		348	17	383	24.5	279	-3.6	337	14.2	289
252	[84]		336	5.1	394	19	310	-2.9	347	8.1	319
253	[84]		360	4.7	396	13.4	328	-4.6	361	5	343
254	[85]		420	25.7	407	23.3	405	23	411	24.1	312
255	[85]		380	16.8	447	29.3	367	13.9	398	20.6	316
256	[85]		431	15.8	426	14.8	436	16.7	434	16.4	363
257	[85]		363	4.7	466	25.8	352	1.7	394	12.2	346
258	[85]		421	10.5	454	17	406	7.1	427	11.7	377
259	[85]		401	-5.7	482	12	420	-1	434	2.3	424
260	[85]		331	-14.5	477	20.5	376	-0.8	395	4.1	379
261	[86]		383	14.9	389	16.2	329	0.9	367	11.2	326
262	[87]		309	12.2	222	-22.3	250	-8.6	260	-4.4	271.4
263	[87]		325	18.4	206	-28.8	246	-7.8	259	-2.4	265.3
264	[87]		395	13.3	300	-14.1	252	-35.8	316	-8.3	342.3

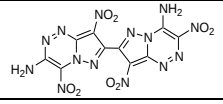
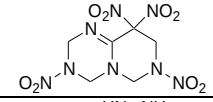
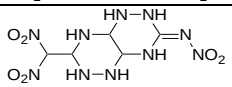
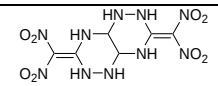
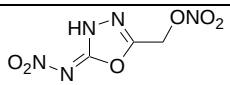
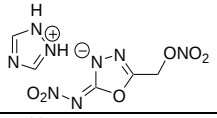
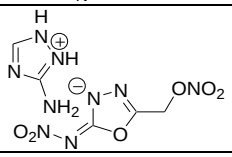
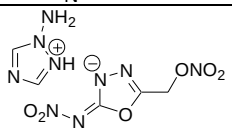
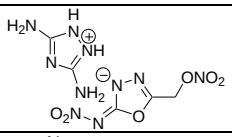
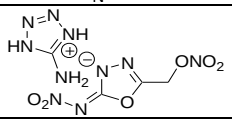
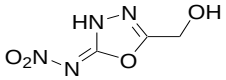
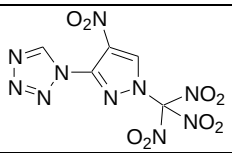
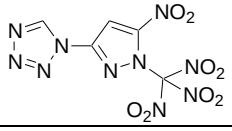
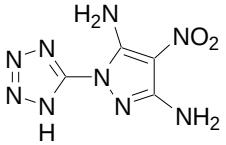
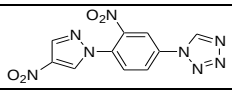
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
265	[87]		388	14.1	331	-0.7	329	-1.3	349	4.5	333.3
266	[87]		382	14.3	300	-9.2	263	-24.5	315	-4	327.5
267	[88]		301	23.4	309	25.4	225	-2.4	263	12.4	230.5
268	[88]		342	20.9	357	24.3	260	-4	320	15.5	270.4
269	[89]		316	19.6	222	-14.4	244	-4.1	261	2.7	254
271	[90]		354	8.1	312	-4.3	293	-11.1	320	-1.7	325.4
272	[91]		347	8.6	400	20.8	341	7	363	12.7	317
273	[91]		246	-48	-	-	263	-38.4	254	-43.3	364
274	[91]		345	9.9	374	16.8	293	-6.1	337	7.7	311
275	[91]		336	-12.5	406	6.9	353	-7.1	365	-3.6	378
276	[91]		290	-16.2	383	12	312	-8	328	-2.7	337
277	[91]		265	-16.6	343	9.9	277	-11.6	295	-4.7	309
278	[91]		227	-40.1	352	9.7	285	-11.6	288	-10.4	318
279	[91]		247	-35.2	387	13.7	311	-7.4	315	-6	334
280	[91]		323	1.5	325	2.2	289	-10	312	-1.9	318
281	[91]		295	-13.9	335	-0.3	296	-13.5	309	-8.7	336
282	[91]		329	1.8	335	3.6	284	-13.7	316	-2.2	323

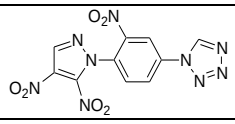
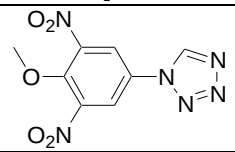
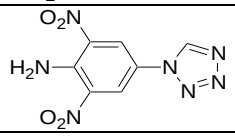
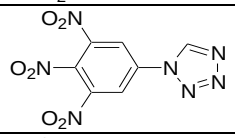
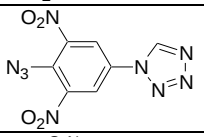
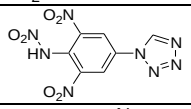
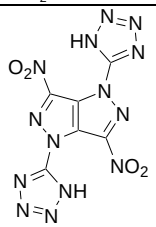
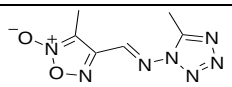
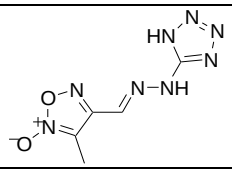
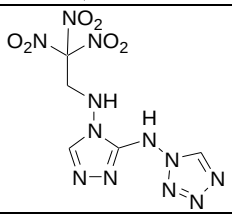
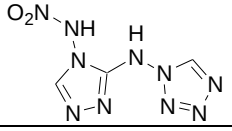
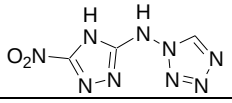
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
284	[92]		255	20	150	-36	197	-3.6	201	-1.5	204
285	[92]		245	20.4	150	-30	190	-2.6	195	0	195
286	[92]		242	21.1	150	-27.3	187	-2.1	193	1	191
287	[92]		274	27.4	168	-18.5	216	7.9	219	9.1	199
288	[92]		247	20.2	168	-17.3	195	-1	203	3	197
289	[92]		257	18.3	168	-25	205	-2.4	210	0	210
290	[92]		260	18.8	168	-25.6	207	-1.9	212	0.5	211
291	[92]		254	25.6	150	-26	184	-2.7	196	3.6	189
292	[92]		281	22.1	229	4.4	215	-1.9	242	9.5	219
293	[92]		265	9.1	223	-8.1	212	-13.7	233	-3.4	241
294	[92]		304	7.9	302	7.3	267	-4.9	291	3.8	280
295	[92]		342	17	289	1.7	286	0.7	306	7.2	284
296	[92]		288	9	293	10.6	234	-12	272	3.7	262
299	[93]		333	22.5	478	46	275	6.2	362	28.7	258
301	[94]		320	12.2	302	7	267	-5.2	296	5.1	281
302	[94]		277	13	264	8.7	232	-3.9	258	6.6	241
303	[94]		307	21.5	296	18.6	232	-3.9	278	13.3	241

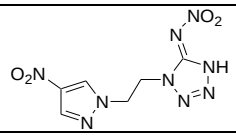
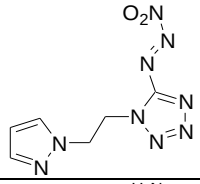
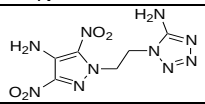
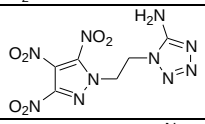
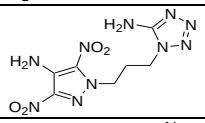
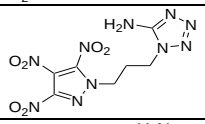
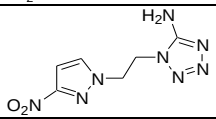
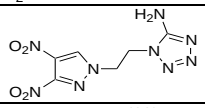
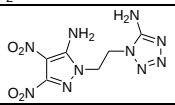
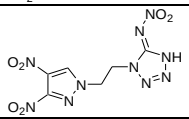
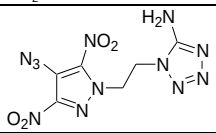
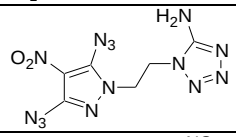
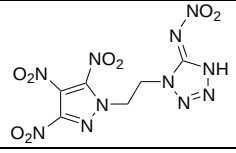
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
304	[94]		261	24.5	238	17.2	195	-1	231	14.7	197
314	[95]		520	11.3	372	-23.9	418	-10.3	437	-5.5	461
315	[95]		362	7.5	440	23.9	311	-7.7	371	9.7	335
316	[95]		327	12.8	384	25.8	280	-1.8	330	13.6	285
318	[95]		361	25.5	303	11.2	254	-5.9	306	12.1	269
319	[95]		322	15.2	322	15.2	261	-4.6	302	9.6	273
320	[95]		460	29.8	364	11.3	306	-5.6	377	14.3	323
321	[95]		368	5.4	403	13.6	326	-6.7	366	4.9	348
322	[95]		372	5.6	403	12.9	330	-6.4	368	4.6	351
323	[95]		377	8.2	402	13.9	330	-4.8	370	6.5	346
324	[95]		385	7.5	403	11.7	333	-6.9	374	4.8	356
325	[95]		376	33.2	403	37.7	328	23.5	369	32	251
326	[95]		342	8.2	418	24.9	293	-7.2	351	10.5	314
327	[96]		431	11.8	464	18.1	345	-10.1	413	8	380
328	[96]		427	-3	414	-6.3	353	-24.6	398	-10.6	440

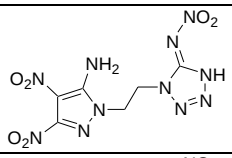
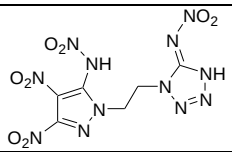
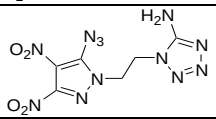
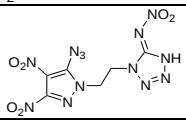
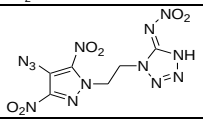
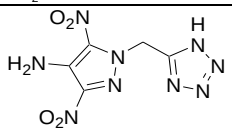
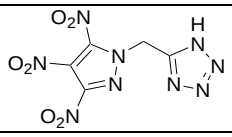
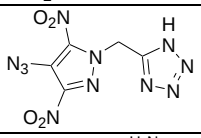
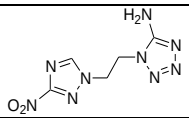
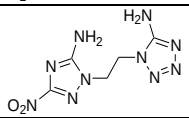
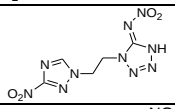
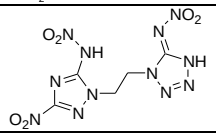
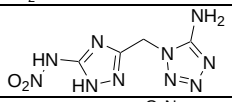
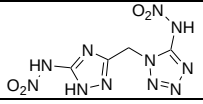
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
329	[96]		417	12	436	15.8	330	-11.2	394	6.9	367
330	[96]		375	8.5	352	2.6	324	-5.9	350	2	343
331	[96]		323	9.6	313	6.7	277	-5.4	304	3.9	292
332	[96]		297	8.4	276	1.4	258	-5.4	277	1.8	272
333	[96]		333	11.1	361	18	285	-3.9	326	9.2	296
334	[96]		413	6.1	396	2	367	-5.7	392	1	388
335	[96]		402	10.4	361	0.3	360	0	374	3.7	360
336	[96]		274	27.4	154	-29.2	180	-10.6	203	2	199
338	[96]		411	24.1	425	26.6	292	-6.8	376	17	312
340	[96]		339	19.2	363	24.5	305	10.2	336	18.5	274
341	[96]		376	12	364	9.1	327	-1.2	356	7	331
342	[96]		448	8.7	462	11.5	414	1.2	441	7.3	409
343	[96]		341	0.6	380	10.8	318	-6.6	346	2	339

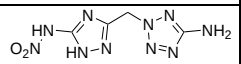
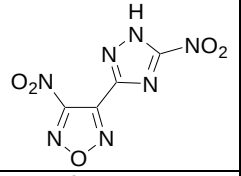
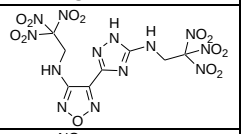
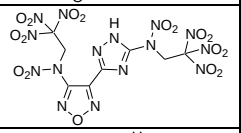
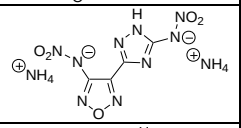
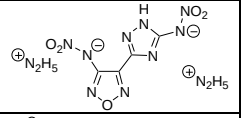
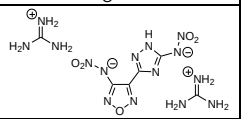
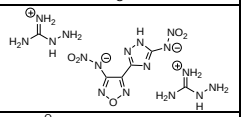
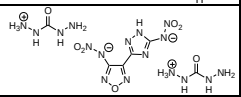
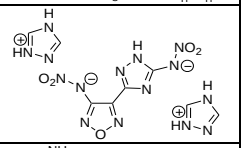
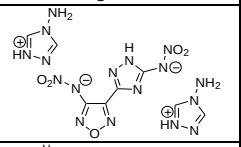
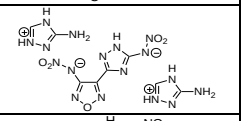
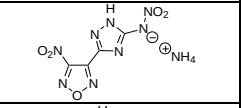
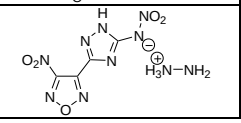
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
344	[96]		412	-1.5	471	11.3	405	-3.2	429	2.6	418
345	[96]		445	25.4	397	16.4	372	10.8	405	18	332
346	[96]		333	-2.7	416	17.8	315	-8.6	355	3.7	342
350	[96]		337	12.8	325	9.5	302	2.6	321	8.4	294
351	[96]		324	6.2	416	26.9	293	-3.8	344	11.6	304
352	[96]		390	1.8	487	21.4	379	-1.1	419	8.6	383
353	[96]		370	-5.7	442	11.5	359	-8.9	390	-0.3	391
357	[96]		371	2.2	494	26.5	333	-9	399	9	363
358	[96]		404	1.5	460	13.5	192	-107.3	352	-13.1	398
360	[96]		344	3.5	416	20.2	306	-8.5	355	6.5	332
361	[96]		404	10.9	389	7.5	307	-17.3	367	1.9	360
362	[96]		388	8.8	420	15.7	338	-4.7	382	7.3	354
363	[96]		322	28.3	309	25.2	240	3.8	290	20.3	231
364	[96]		343	21.3	357	24.4	264	-2.3	321	15.9	270

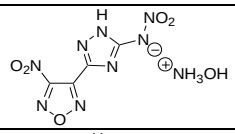
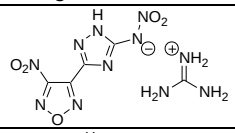
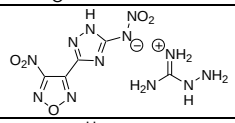
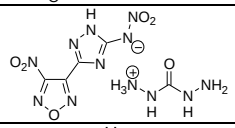
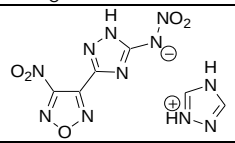
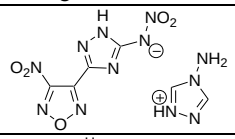
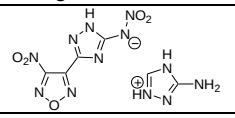
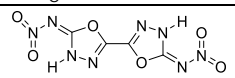
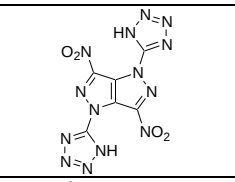
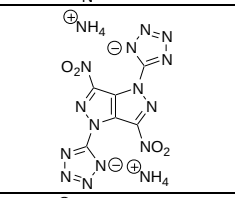
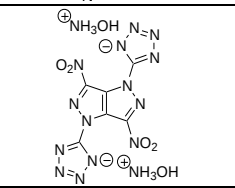
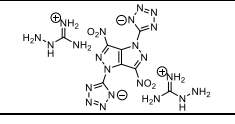
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
365	[96]		347	9.5	336	6.5	275	-14.2	319	1.6	314
366	[96]		356	4.9	321	-5.5	329	-2.9	335	-1.1	338.7
367	[96]		230	-27.8	340	13.5	286	-2.8	285	-3.2	294
368	[96]		268	-31.3	352	0	334	-5.4	318	-10.7	352
370	[98]		361	3.1	359	2.5	357	2	359	2.5	349.9
371	[98]		314	-1.8	312	-2.5	268	-19.3	298	-7.3	319.8
372	[98]		285	-12.7	324	0.9	325	1.2	311	-3.3	321.2
373	[98]		307	-9.8	339	0.6	338	0.3	328	-2.8	337.1
374	[98]		286	-12.3	348	7.7	279	-15.1	304	-5.7	321.2
375	[98]		305	-19.9	399	8.3	358	-2.2	354	-3.3	365.7
376	[98]		320	14.9	277	1.7	288	5.5	295	7.7	272.2
379	[99]		370	8.1	435	21.8	330	-3	378	10.1	340
380	[99]		357	10.4	435	26.4	321	0.3	371	13.7	320
381	[99]		288	10.1	310	16.5	180	-43.9	259	0	259
383	[99]		254	25.6	150	-26	184	-2.7	196	3.6	189

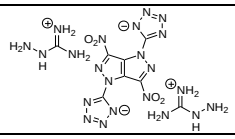
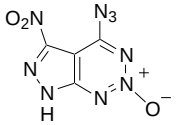
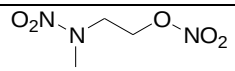
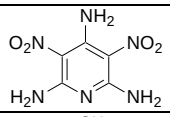
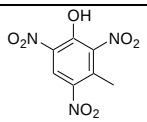
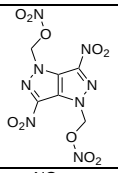
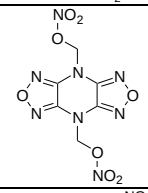
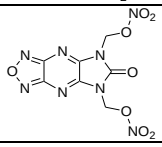
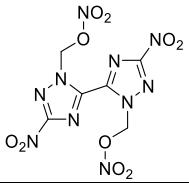
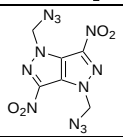
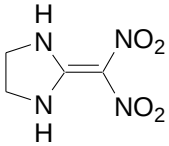
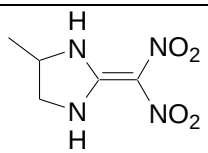
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
384	[99]		281	22.1	229	4.4	215	-1.9	242	9.5	219
385	[99]		274	27.4	184	-8.2	216	7.9	225	11.6	199
386	[99]		265	9.1	223	-8.1	212	-13.7	233	-3.4	241
387	[99]		342	17	289	1.7	286	0.7	306	7.2	284
388	[99]		288	9	293	10.6	234	-12	272	3.7	262
389	[99]		304	7.9	302	7.3	267	-4.9	291	3.8	280
392	[99]		363	14.9	418	26.1	287	-7.7	356	13.2	309
394	[99]		223	13.7	115	-67.3	177	-8.7	172	-11.9	192.4
395	[99]		241	2.5	213	-10.3	228	-3.1	227	-3.5	235
398	[99]		327	-6.7	416	16.1	339	-2.9	361	3.3	349
399	[99]		323	-4	406	17.2	325	-3.4	351	4.3	336
400	[99]		305	-5.2	411	21.9	317	-1.3	344	6.7	321

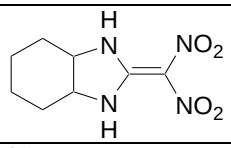
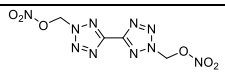
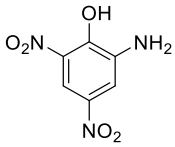
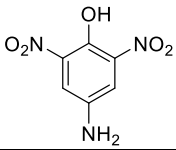
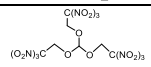
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
402	[99]		266	13.2	285	18.9	226	-2.2	259	10.8	231
403	[99]		218	25.2	185	11.9	164	0.6	189	13.8	163
404	[99]		263	11.8	296	21.6	224	-3.6	261	11.1	232
405	[99]		301	10	355	23.7	263	-3	306	11.4	271
406	[99]		246	11.4	244	10.7	210	-3.8	233	6.4	218
407	[99]		276	10.5	310	20.3	242	-2.1	276	10.5	247
408	[99]		214	21.5	130	-29.2	160	-5	168	0	168
409	[99]		245	15.9	285	27.7	205	-0.5	245	15.9	206
410	[99]		266	13.5	296	22.3	227	-1.3	263	12.5	230
411	[99]		293	8.9	355	24.8	261	-2.3	303	11.9	267
412	[99]		293	10.9	352	25.9	253	-3.2	299	12.7	261
413	[99]		264	12.5	322	28.3	221	-4.5	269	14.1	231
414	[99]		318	0.6	398	20.6	305	-3.6	340	7.1	316

		Compound	$P_{C\text{-}J}$ [kbar] Keshavarz	Deviation Keshavarz [%]	$P_{C\text{-}J}$ [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	$P_{C\text{-}J}$ [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	$P_{C\text{-}J}$ [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	$P_{C\text{-}J}$ [kbar] from reference [kbar]
415	[99]		289	0.3	363	20.7	279	-3.2	310	7.1	288
416	[99]		334	-2.4	405	15.6	327	-4.6	355	3.7	342
417	[99]		297	11.4	352	25.3	252	-4.4	300	12.3	263
418	[99]		329	0.6	403	18.9	309	-5.8	347	5.8	327
419	[99]		318	0	403	21.1	301	-5.6	341	6.7	318
420	[99]		329	8.8	345	13	283	-6	319	6	300
421	[99]		369	6.5	397	13.1	326	-5.8	364	5.2	345
422	[99]		344	6.7	402	20.1	299	-7.4	348	7.8	321
423	[99]		241	22	222	15.3	183	-2.7	215	12.6	188
424	[99]		259	16.6	230	6.1	200	-8	230	6.1	216
425	[99]		264	3	353	27.5	240	-6.7	286	10.5	256
426	[99]		277	-16.2	416	22.6	270	-19.3	321	-0.3	322
427	[99]		273	8.8	312	20.2	236	-5.5	274	9.1	249
428	[99]		324	1.9	420	24.3	274	-16.1	339	6.2	318

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
429	[99]		277	9	312	19.2	237	-6.3	275	8.4	252
433	[101]		369	-0.5	414	10.4	340	-9.1	374	0.8	371
434	[101]		379	-0.5	396	3.8	369	-3.3	381	0	381
435	[101]		458	12.4	436	8	407	1.5	434	7.6	401
436	[101]		362	11.9	399	20.1	306	-4.2	356	10.4	319
437	[101]		313	-11.5	410	14.9	341	-2.3	355	1.7	349
438	[101]		215	-6.5	360	36.4	222	-3.2	266	13.9	229
439			201	-31.8	372	28.8	254	-4.3	276	4	265
440	[101]		213	-30	402	31.1	273	-1.5	296	6.4	277
441			301	12.3	334	21	266	0.8	300	12	264
442	[101]		300	3	347	16.1	276	-5.4	308	5.5	291
443	[101]		269	0.4	347	22.8	255	-5.1	290	7.6	268
444	[101]		354	7.9	384	15.1	312	-4.5	350	6.9	326
445	[101]		340	-5.3	411	12.9	339	-5.6	363	1.4	358

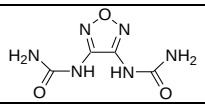
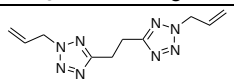
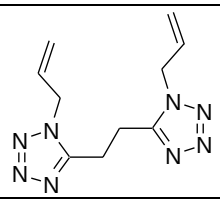
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
446	[101]		357	0	419	14.8	344	-3.8	373	4.3	357
447	[101]		258	4.3	380	35	244	-1.2	294	16	247
448	[101]		246	-4.9	387	33.3	256	-0.8	296	12.8	258
449	[101]		252	-7.1	402	32.8	267	-1.1	307	12.1	270
450	[101]		296	8.4	363	25.3	261	-3.8	307	11.7	271
451	[101]		309	6.8	370	22.2	276	-4.3	318	9.4	288
452	[101]		284	7.4	370	28.9	255	-3.1	303	13.2	263
453	[102]		392	-3	343	-17.8	363	-11.3	366	-10.4	403.9
454	[103]		363	14.9	418	26.1	287	-7.7	356	13.2	309
455	[103]		350	25.1	390	32.8	252	-4	331	20.8	262
456	[103]		302	13.9	418	37.8	255	-2	325	20	260
457	[103]		264	-18.6	364	14	262	-19.5	297	-5.4	313

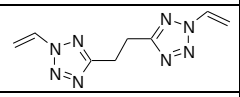
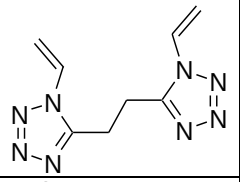
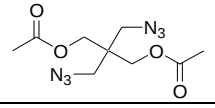
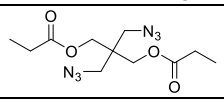
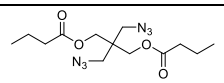
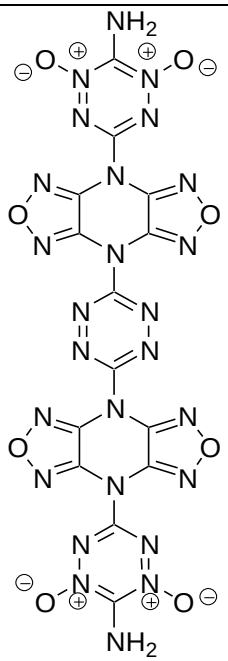
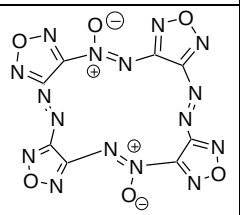
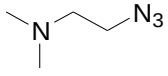
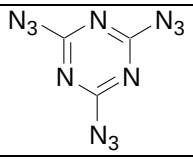
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
458	[103]		230	-8.3	364	31.6	226	-10.2	273	8.8	249
459	[104]		363	3.2	425	17.3	317	-10.9	368	4.5	351.4
460	[26]		233	-11.2	229	-13.1	236	-9.7	233	-11.2	259
461	[38]		278	19.4	259	13.5	244	8.2	260	13.8	224
462	[38]		239	24.7	196	8.2	237	24.1	224	19.6	180
465	[105]		376	12	364	9.1	327	-1.2	356	7	331
466	[105]		373	10.5	341	2.1	321	-4	345	3.2	334
467	[105]		362	24.6	290	5.9	265	-3	306	10.8	273
468	[105]		387	15.5	390	16.2	321	-1.9	366	10.7	327
469	[105]		310	11	371	25.6	263	-4.9	315	12.4	276
471	[47]		253	-13	206	-38.8	244	-17.2	234	-22.2	286
472	[47]		221	-4.1	131	-75.6	217	-6	190	-21.1	230

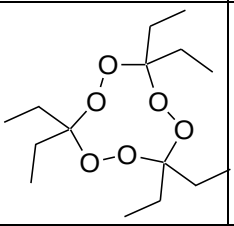
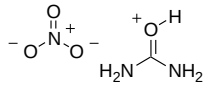
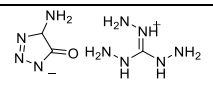
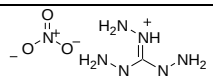
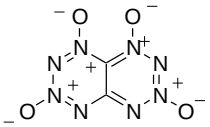
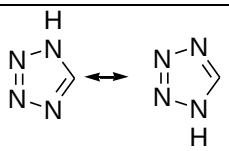
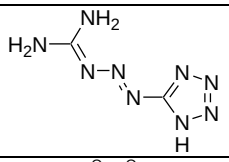
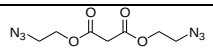
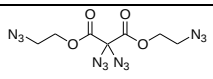
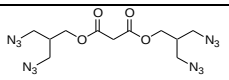
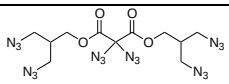
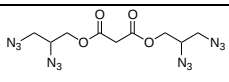
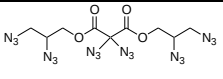
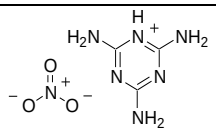
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
473	[47]		173	-2.3	-17	1141.2	164	-7.9	160	-10.6	177
479	[107]		326	12.3	389	26.5	284	-0.7	333	14.1	286
480	[108]		249	34.9	146	-11	193	16.1	196	17.3	162
481	[109]		279	19.4	146	-54.1	246	8.5	224	-0.4	225
482	[110]		405	-	353	-	340	-	366	-	-

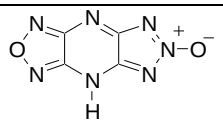
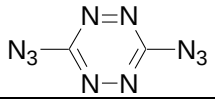
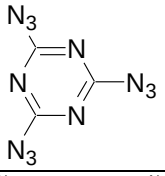
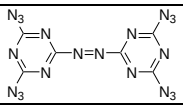
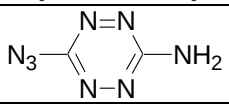
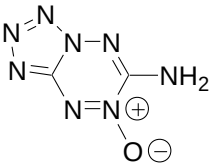
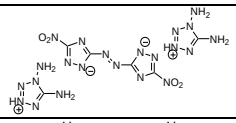
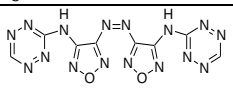
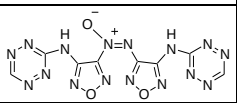
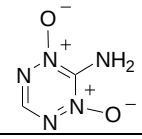
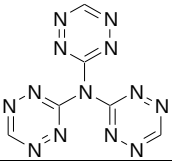
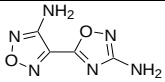
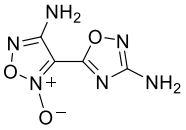
2.3.10 The detonation pressures of molecules not containing nitro groups

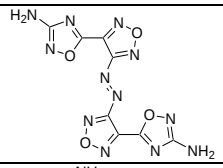
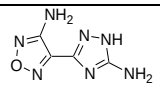
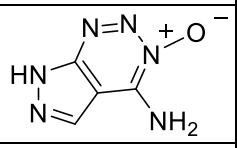
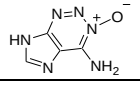
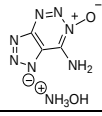
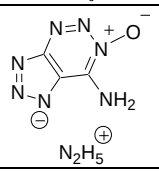
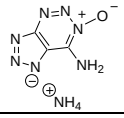
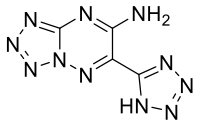
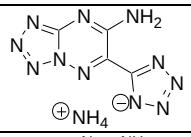
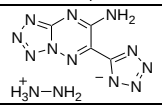
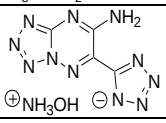
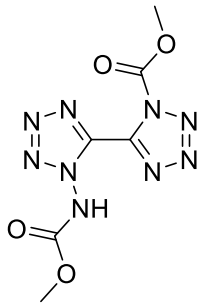
Table 61. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the molecules not containing nitro groups.

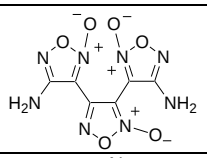
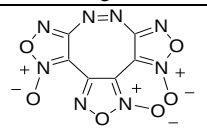
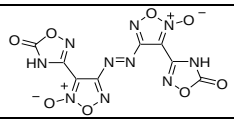
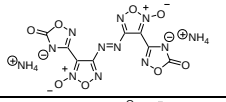
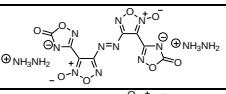
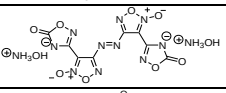
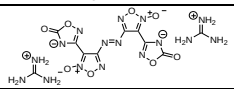
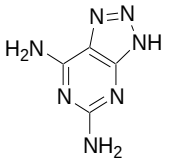
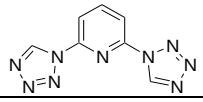
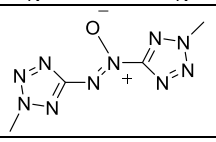
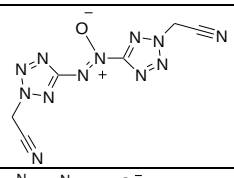
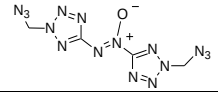
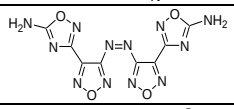
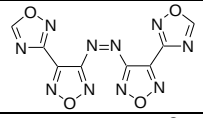
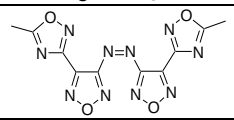
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8	[25]		311	21.2	186	-31.7	246	0.4	248	1.2	245
12	[30]		105	5.7	-	-	68	-45.6	86	-15.1	99
13	[30]		105	5.7	-	-	69	-43.5	87	-13.8	99

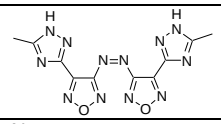
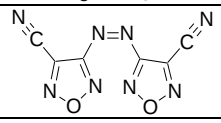
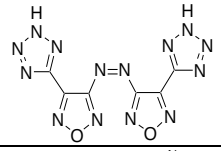
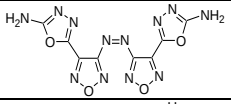
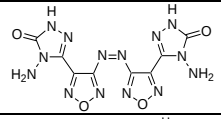
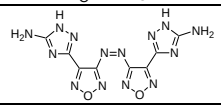
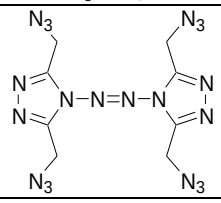
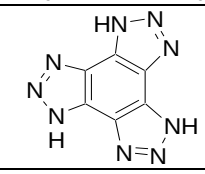
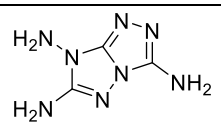
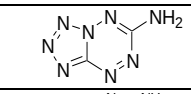
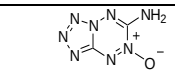
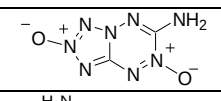
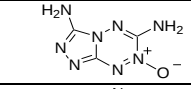
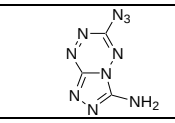
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
14	[30]		164	9.8	-	-	105	-41	134	-10.4	148
15	[30]		164	9.1	-	-	106	-40.6	135	-10.4	149
26	[35]		109	27.5	-64	223.4	81	2.5	28	-182.1	79
27	[35]		89	19.1	-133	154.1	68	-5.9	12	-500	72
28	[35]		68	8.8	-191	132.5	54	-14.8	-34	282.4	62
42	[38]		459	30.3	370	13.5	307	-4.2	379	15.6	320
43	[38] [39]		377	0	410	8	296	-27.4	361	-4.4	377
46	[24]		63	-15.9	-	-	49	-49	56	-30.4	73
47	[24] [40]		309	26.9	-	-	237	4.6	273	17.2	226

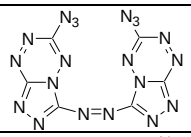
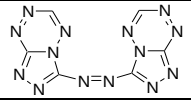
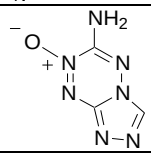
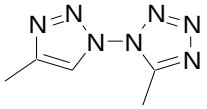
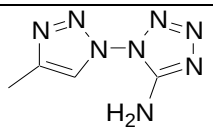
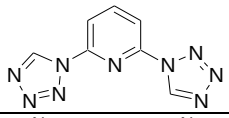
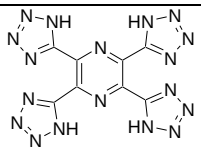
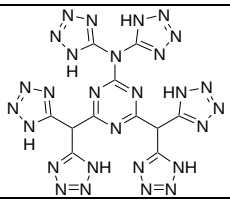
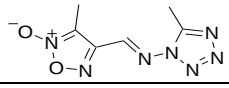
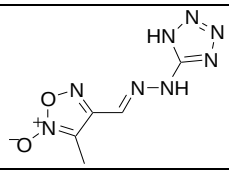
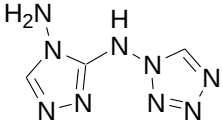
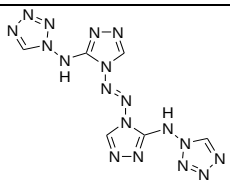
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
49	[42]		79	-44.3	-389	129.3	69	-65.2	-120	195	114
50	[43]		271	12.9	330	28.5	221	-6.8	274	13.9	236
52	[45]		168	-89.3	-118	369.5	242	-31.4	146	-117.8	318
53	[38]		181	-54.1	368	24.2	222	-25.7	257	-8.6	279
57	[46]		451	18.4	545	32.5	357	-3.1	451	18.4	368
58	[38]		221	5	-	-	184	-14.1	202	-4	210
63	[38]		326	-3.7	-	-	259	-30.5	292	-15.8	338
84	[51]		162	27.2	22	-436.4	119	0.8	101	-16.8	118
85	[51]		208	18.3	217	21.7	174	2.3	200	15	170
86	[51]		148	-8.1	66	-142.4	129	-24	114	-40.4	160
87	[51]		196	7.7	195	7.2	178	-1.7	190	4.7	181
88	[51]		141	15.6	135	11.9	120	0.8	132	9.8	119
89	[51]		209	14.8	260	31.5	183	2.7	217	18	178
134	[62]		228	15.4	326	40.8	192	-0.5	249	22.5	193

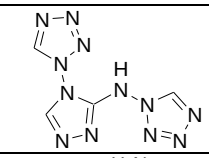
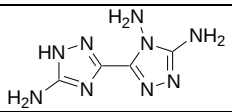
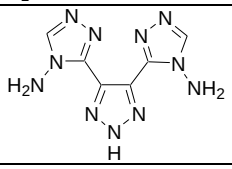
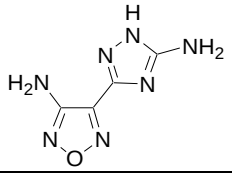
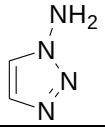
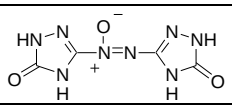
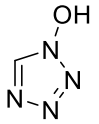
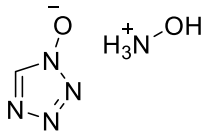
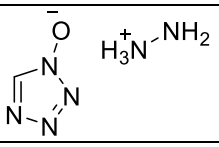
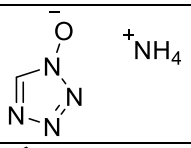
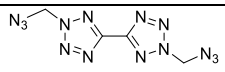
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
137	[63]		346	6.4	360	10	282	-14.9	329	1.5	324
145	[40]		271	2.2	-	-	267	0.7	269	1.5	265
146	[40]		313	14.1	-	-	258	-4.3	286	5.9	269
147	[40]		301	12.3	-	-	250.5	-5.4	275.8	4.3	264
148	[40]		274	1.5	-	-	250	-8	262	-3.1	270
149	[40]		374	2.7	417	12.7	332	-9.6	374	2.7	364
161	[66]		329	10.6	436	32.6	271	-8.5	345	14.8	294
162	[67]		290	13.4	325	22.8	236	-6.4	284	11.6	251
163	[67]		326	13.2	350	19.1	262	-8	313	9.6	283
164	[67]		307	1.6	365	17.3	291	-3.8	321	5.9	302
165	[67]		320	17.5	-	-	238	-10.9	279	5.4	264
191	[71]		265	23	240	15	198	-3	234	12.8	204
192	[71]		308	13	298	10.1	254	-5.5	287	6.6	268

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
193	[71]		282	23.4	308	29.9	204	-5.9	265	18.5	216
194	[71]		261	17.6	92	-133.7	193	-11.4	182	-18.1	215
225	[79]		321	5.6	257	-17.9	276	-9.8	285	-6.3	303
226	[79]		291	12	95	-169.5	225	-13.8	204	-25.5	256
227	[79]		281	17.1	95	-145.3	210	-11	195	-19.5	233
228	[79]		313	10.5	305	8.2	260	-7.7	293	4.4	280
229	[79]		285	-17.9	126	-166.7	251	-33.9	221	-52	336
230	[79]		309	8.7	131	-115.3	252	-11.9	231	-22.1	282
232	[80]		332	22.9	-	-	246	-4.1	289	11.4	256
236	[80]		320	22.2	-	-	219	-13.7	270	7.8	249
237	[80]		302	8.6	-	-	240	-15	271	-1.8	276
238	[80]		322	13	236	-18.6	253	-10.7	270	-3.7	280
241	[82]		262	23.3	203	1	212	5.2	226	11.1	201

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
242	[83]		331	6.3	336	7.7	293	-5.8	320	3.1	310
243	[83]		409	3.2	368	-7.6	347	-14.1	375	-5.6	396
245	[84]		399	13	283	-22.6	321	-8.1	334	-3.9	347
246	[84]		323	15.5	285	4.2	246	-11	285	4.2	273
247	[84]		301	2.7	356	17.7	282	-3.9	313	6.4	293
248	[84]		337	8.9	310	1	293	-4.8	313	1.9	307
249	[84]		242	-10.3	280	4.6	198	-34.8	240	-11.3	267
270	[90]		241	24.6	-	-	161	-12.8	201	9.7	181.6
283	[92]		247	30.4	-	-	157	-9.6	202	14.9	172
297	[93]		256	25.8	172	-10.5	184	-3.3	204	6.9	190
298	[93]		249	24.9	239	21.8	180	-3.9	223	16.1	187
300	[93]		279	36.6	390	54.6	180	1.7	283	37.5	177
305	[95]		359	21.2	283	0	256	-10.5	299	5.4	283
306	[95]		312	27.2	262	13.4	216	-5.1	263	13.7	227
307	[95]		318	28.9	172	-31.4	212	-6.6	234	3.4	226

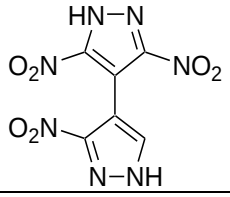
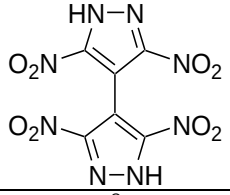
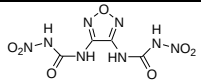
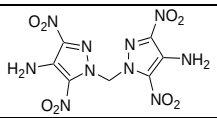
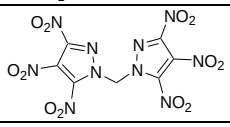
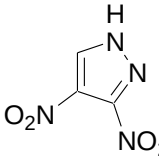
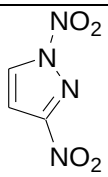
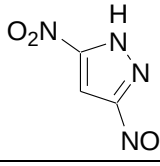
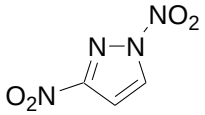
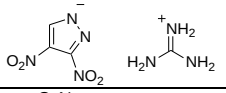
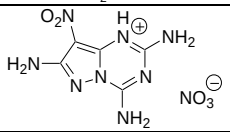
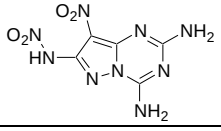
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
308	[95]		307	14	137	-92.7	211	-25.1	218	-21.1	264
309	[95]		258	15.5	311	29.9	202	-7.9	257	15.2	218
310	[95]		311	10	389	28	239	-17.2	313	10.5	280
311	[95]		350	22	257	-6.2	249	-9.6	285	4.2	273
312	[95]		272	17.6	286	21.7	217	-3.2	258	13.2	224
313	[95]		300	12.7	262	0	228	-14.9	263	0.4	262
317	[95]		231	9.5	-	-	194	-7.7	212	1.4	209
337	[96]		302	35.8	-	-	153	-26.8	228	14.9	194
339	[96]		273	5.1	-	-	217	-19.4	245	-5.7	259
347	[96]		292	7.5	-	-	250	-8	271	0.4	270
348	[96]		374	2.7	417	12.7	332	-9.6	374	2.7	364
349	[96]		406	-1.7	480	14	372	-11	419	1.4	413
354	[96]		326	-6.4	240	-44.6	269	-29	278	-24.8	347
355	[96]		312	8.7	-	-	260	-9.6	286	0.3	285

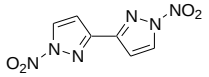
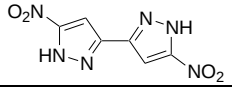
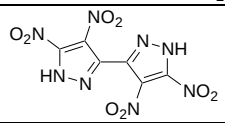
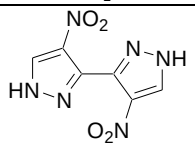
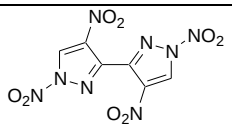
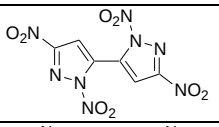
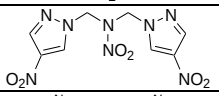
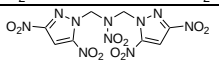
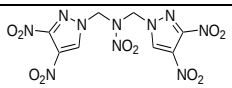
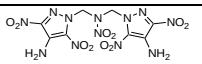
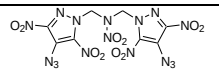
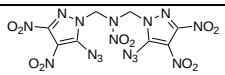
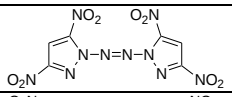
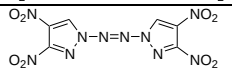
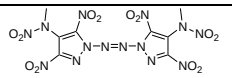
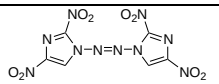
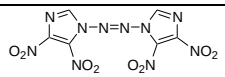
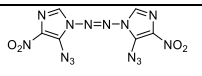
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
356	[96]		381	20.7	-	-	283	-6.7	332	9	302
359	[96]		423	17.7	-	-	298	-16.8	360	3.3	348
369	[97]		292	12.7	257	0.8	240	-6.3	263	3	255
377	[99]		203	-20.7	-	-	151	-62.3	177	-38.4	245
378	[99]		219	7.3		-	181	-12.2	200	-1.5	203
382	[99]		247	30.4	-	-	157	-9.6	202	14.9	172
390	[99]		389	28	-	-	263	-6.5	326	14.1	280
393	[99]		375	33.1	-	-	241	-4.1	308	18.5	251
394	[99]		223	13.7	115	-67.3	177	-8.7	172	-11.9	192.4
395	[99]		241	2.5	213	-10.3	228	-3.1	227	-3.5	235
396	[99]		262	-5.7	-	-	245	-13.1	254	-9.1	277
397	[99]		307	10.1	-	-	250	-10.4	278	0.7	276

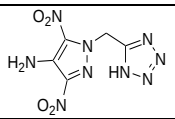
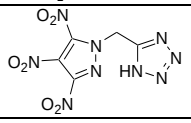
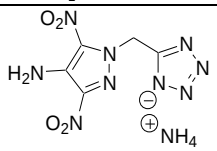
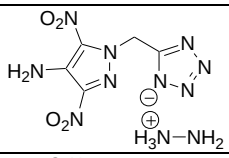
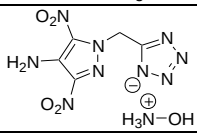
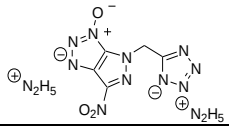
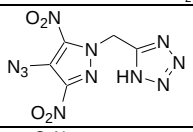
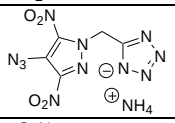
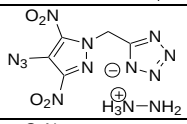
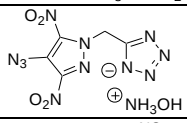
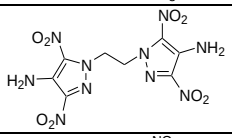
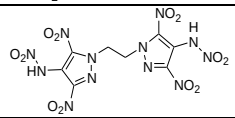
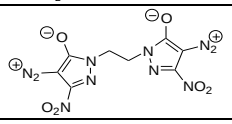
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
401	[99]		315	9.8	-	-	265	-7.2	290	2.1	284
430	[100]		237	13.9	-	-	174	-17.2	206	1	204
431	[100]		246	15.9	-	-	178	-16.3	212	2.4	207
432	[101]		223	13.5	92	-109.8	182	-6	166	-16.3	193
463	[24]		187	89.6	-	-	151	87.1	169	88.5	19.5
464	[24]		330	26.1	289	15.6	249	2	289	15.6	243.9
474	[106]		271	0.7	354	24	265	-1.5	297	9.4	269
475	[106]		280	-18.2	366	9.6	259	-27.8	302	-9.6	331
476	[106]		241	-32.4	122	-161.5	253	-26.1	205	-55.6	319
477	[106]		250	14.8	131	-62.6	240	11.3	207	-2.9	213
478	[107]		281	15.7	-	-	230	-3	256	1.2	237

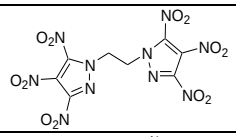
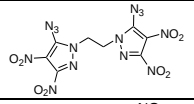
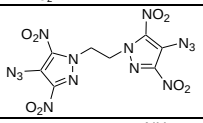
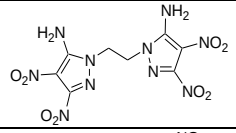
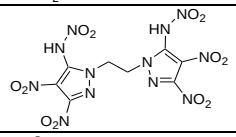
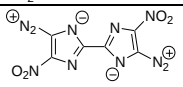
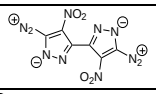
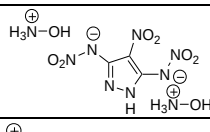
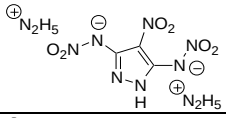
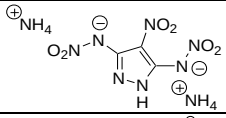
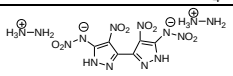
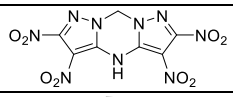
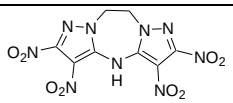
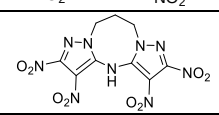
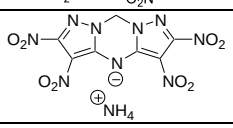
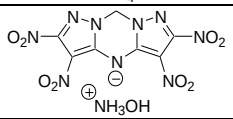
2.3.11 The detonation pressures of diazole

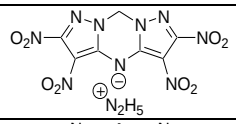
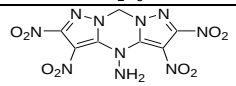
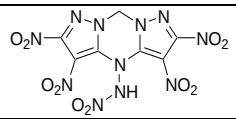
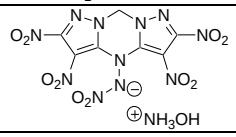
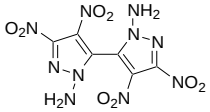
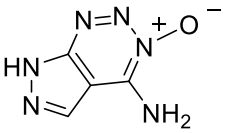
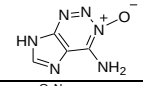
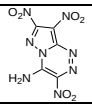
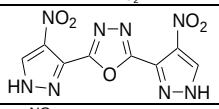
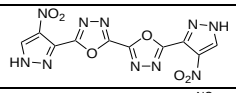
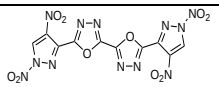
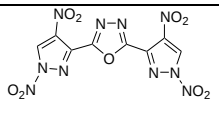
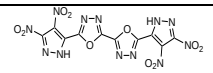
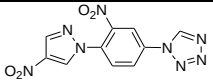
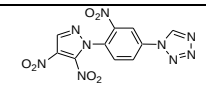
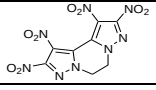
Table 62. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the diazoles.

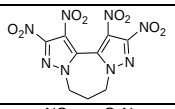
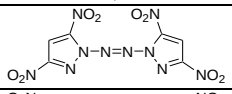
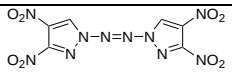
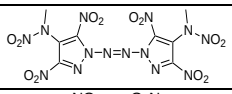
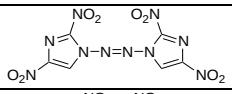
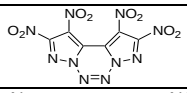
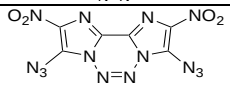
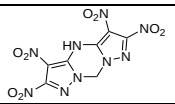
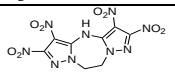
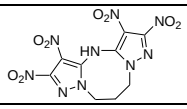
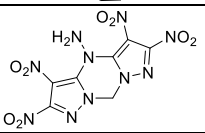
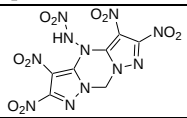
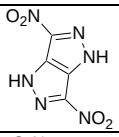
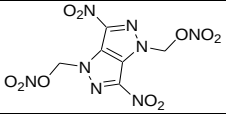
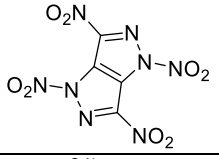
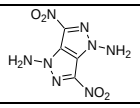
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
6	[27]		333	14.1	324	11.7	290	1.4	313	8.6	286
7	[27]		336	7.4	375	17.1	303	-2.6	338	8	311
16	[25]		317	-1.6	375	14.1	327	1.5	340	5.3	322
17	[31]		323	8.4	350	15.4	285	-3.9	319	7.2	296
18	[31]		437	10.5	402	2.7	377	-3.7	405	3.5	391
36	[37]		313	2.2	301	-1.7	226	-35.4	327	6.4	306
37	[37]		315	2.2	367	16.1	301	-2.3	328	6.1	308
38	[37]		309	6.5	367	21.3	290	0.3	322	10.2	289
120	[37]		315	2.9	367	16.6	301	-1.7	328	6.7	306
122	[37]		230	-20	317	12.9	222	-24.3	256	-7.8	276
135	[62]		300	6	350	19.4	270	-4.4	307	8.1	282
136	[62]		336	5.1	345	7.5	292	-9.2	324	1.5	319

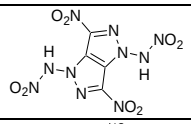
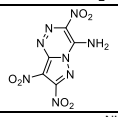
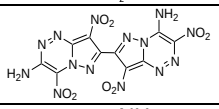
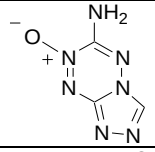
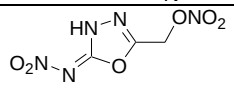
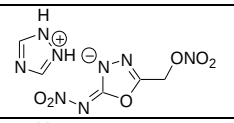
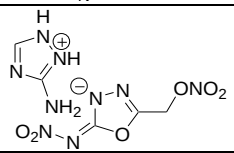
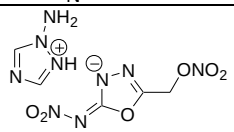
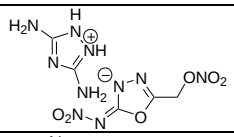
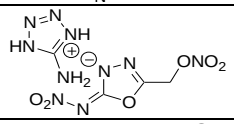
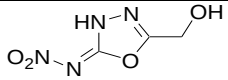
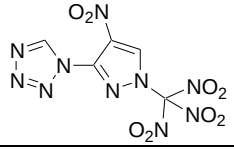
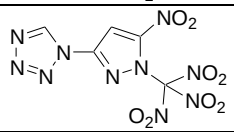
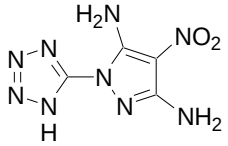
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
139	[64]		330	12.7	244	-18	265	-8.7	280	-2.9	288
140	[64]		301	13	244	-7.4	245	-6.9	263	0.4	262
141	[64]		344	6.1	375	13.9	293	-10.2	337	4.2	323
142	[64]		308	12.7	244	-10.2	250	-7.6	267	-0.7	269
143	[64]		378	8.7	375	8	327	-5.5	360	4.2	345
144	[64]		380	6.8	375	5.6	332	-6.6	362	2.2	354
150	[65]		280	10.4	242	-3.7	236	-6.4	253	0.8	251
151	[65]		343	9.9	345	10.4	299	-3.3	329	6.1	309
152	[65]		343	9.6	345	10.1	299	-3.7	329	5.8	310
153	[65]		352	1.4	361	3.9	331	-4.8	348	0.3	347
154	[65]		386	9.1	415	15.4	333	-5.4	378	7.1	351
155	[65]		386	8.8	415	15.2	333	-5.7	378	6.9	352
166	[68]**4**		368	5.4	403	13.6	326	-6.7	366	4.9	348
167	[68]**5**		372	5.6	403	12.9	330	-6.4	368	4.6	351
168	[68]**6**		377	8.2	402	13.9	332	-4.2	370	6.5	346
169	[68]**7**		385	7.5	403	11.7	333	-6.9	374	4.8	356
170	[68]**8**		376	6.6	403	12.9	328	-7	369	4.9	351
172	[68]		342	8.2	418	24.9	285	-10.2	348	9.8	314

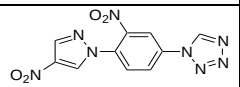
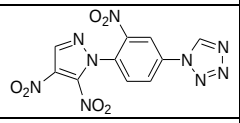
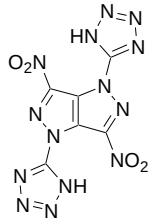
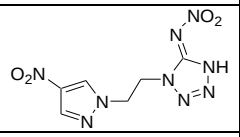
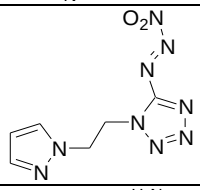
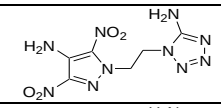
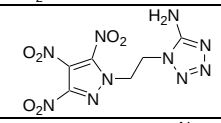
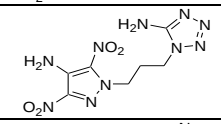
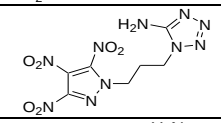
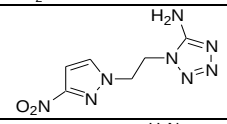
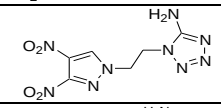
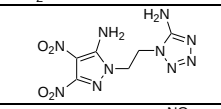
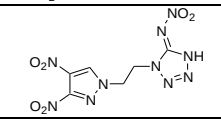
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
173	[69]		329	8.8	345	13	283	-6	319	6	300
174	[69]		369	6.5	397	13.1	326	-5.8	364	5.2	345
175	[69]		288	12.8	331	24.2	247	-1.6	289	13.1	251
176	[69]		255	-0.4	339	24.5	249	-2.8	281	8.9	256
177	[69]		306	2.6	355	16.1	287	-3.8	316	5.7	298
178	[69]		277	-4.3	322	10.2	267	-8.2	289	0	289
179	[69]		344	6.7	402	20.1	299	-7.4	348	7.8	321
180	[69]		292	11.6	386	33.2	251	-2.8	310	16.8	258
181	[69]		299	0.7	391	24	286	-3.8	325	8.6	297
182	[69]		331	2.7	403	20.1	305	-5.6	346	6.9	322
183	[70]		299	6.7	313	10.9	268	-4.1	293	4.8	279
184	[70]		357	3.9	384	10.7	331	-3.6	357	3.9	343
185	[70]		299	19.1	307	21.2	233	-3.9	280	13.6	242

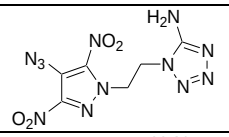
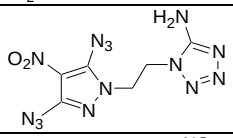
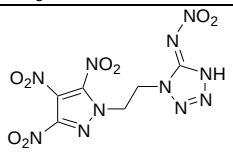
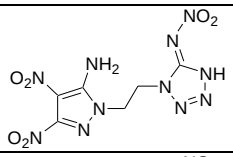
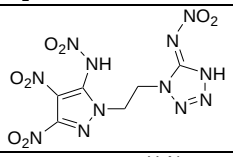
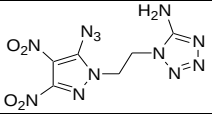
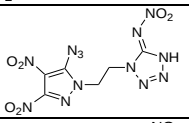
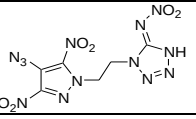
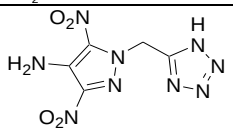
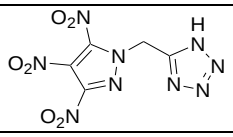
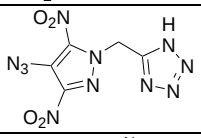
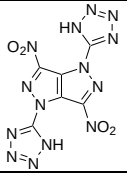
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
186	[70]		382	10.7	370	7.8	329	-3.6	360	5.3	341
187	[70]		347	3.7	383	12.8	311	-7.4	347	3.7	334
188	[70]		338	8.3	383	19.1	292	-6.2	338	8.3	310
189	[70]		292	6.5	313	12.8	263	-3.8	289	5.5	273
190	[70]		353	4.5	384	12.2	327	-3.1	355	5.1	337
195	[72]		354	12.1	380	18.2	281	-10.7	338	8	311
196	[72]		362	6.1	380	10.5	302	-12.6	348	2.3	340
204	[74]		364	-9.9	451	11.3	402	0.5	406	1.5	400
205	[74]		314	-22.6	437	11.9	373	-3.2	375	-2.7	385
206	[74]		341	4.4	426	23.5	319	-2.2	362	9.9	326
207	[74]		303	-16.2	397	11.3	338	-4.1	346	-1.7	352
210	[75]		373	8	352	2.6	323	-6.2	349	1.7	343
211	[75]		323	9.6	313	6.7	277	-5.4	304	3.9	292
212	[75]		297	8.4	276	1.4	258	-5.4	277	1.8	272
213	[75]		359	11.7	350	9.4	302	-5	337	5.9	317
214	[75]		367	2.2	361	0.6	331	-8.5	353	-1.7	359

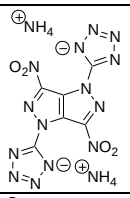
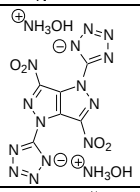
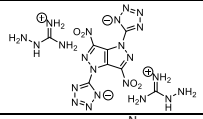
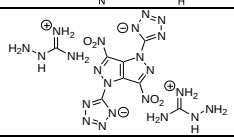
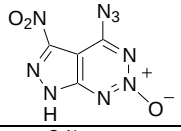
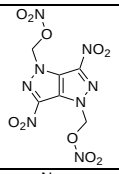
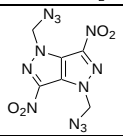
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
215	[75]		337	1.5	359	7.5	315	-5.4	337	1.5	332
216	[75]		333	11.1	361	18	285	-3.9	326	9.2	296
217	[75]		412	5.8	396	2	366	-6	391	0.8	388
218	[75]		391	5.1	401	7.5	359	-3.3	384	3.4	371
219	[76]		318	2.5	391	20.7	299	-3.7	336	7.7	310
226	[79]		291	12	95	-169.5	225	-13.8	204	-25.5	256
227	[79]		281	17.1	95	-145.3	210	-11	195	-19.5	233
261	[86]		383	14.9	389	16.2	329	0.9	367	11.2	326
262	[87]		309	12.2	222	-22.3	250	-8.6	260	-4.4	271.4
263	[87]		325	18.4	206	-28.8	246	-7.8	259	-2.4	265.3
264	[87]		395	13.3	300	-14.1	252	-35.8	316	-8.3	342.3
265	[87]		388	14.1	331	-0.7	329	-1.3	349	4.5	333.3
266	[87]		382	14.3	300	-9.2	263	-24.5	315	-4	327.5
291	[92]		254	25.6	150	-26	184	-2.7	196	3.6	189
292	[92]		281	22.1	229	4.4	215	-1.9	242	9.5	219
301	[94]		320	12.2	302	7	267	-5.2	296	5.1	281

		Compound	$P_{C\text{-}J}$ [kbar] Keshavarz	Deviation Keshavarz [%]	$P_{C\text{-}J}$ [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	$P_{C\text{-}J}$ [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	$P_{C\text{-}J}$ [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	$P_{C\text{-}J}$ [kbar] from reference [kbar]
302	[94]		277	13	264	8.7	232	-3.9	258	6.6	241
321	[95]		368	5.4	403	13.6	326	-6.7	366	4.9	348
322	[95]		372	5.6	403	12.9	330	-6.4	368	4.6	351
323	[95]		377	8.2	402	13.9	330	-4.8	370	6.5	346
324	[95]		385	7.5	403	11.7	333	-6.9	374	4.8	356
328	[96]		427	-3	414	-6.3	353	-24.6	398	-10.6	440
329	[96]		417	12	436	15.8	330	-11.2	394	6.9	367
330	[96]		375	8.5	352	2.6	324	-5.9	350	2	343
331	[96]		323	9.6	313	6.7	277	-5.4	304	3.9	292
332	[96]		297	8.4	276	1.4	258	-5.4	277	1.8	272
333	[96]		333	11.1	361	18	285	-3.9	326	9.2	296
334	[96]		413	6.1	396	2	367	-5.7	392	1	388
340	[96]		339	19.2	363	24.5	305	10.2	336	18.5	274
341	[96]		376	12	364	9.1	327	-1.2	356	7	331
342	[96]		448	8.7	462	11.5	414	1.2	441	7.3	409
343	[96]		341	0.6	380	10.8	318	-6.6	346	2	339

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
344	[96]		412	-1.5	471	11.3	405	-3.2	429	2.6	418
361	[96]		404	10.9	389	7.5	307	-17.3	367	1.9	360
365	[96]		347	9.5	336	6.5	275	-14.2	319	1.6	314
369	[97]		292	12.7	257	0.8	240	-6.3	263	3	255
370	[98]		361	3.1	359	2.5	357	2	359	2.5	349.9
371	[98]		314	-1.8	312	-2.5	268	-19.3	298	-7.3	319.8
372	[98]		285	-12.7	324	0.9	325	1.2	311	-3.3	321.2
373	[98]		307	-9.8	339	0.6	338	0.3	328	-2.8	337.1
374	[98]		286	-12.3	348	7.7	279	-15.1	304	-5.7	321.2
375	[98]		305	-19.9	399	8.3	358	-2.2	354	-3.3	365.7
376	[98]		320	14.9	277	1.7	288	5.5	295	7.7	272.2
379	[99]		370	8.1	435	21.8	330	-3	378	10.1	340
380	[99]		357	10.4	435	26.4	321	0.3	371	13.7	320
381	[99]		288	10.1	310	16.5	180	-43.9	259	0	259

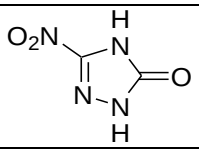
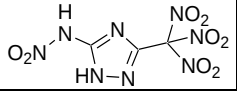
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
383	[99]		254	25.6	150	-26	184	-2.7	196	3.6	189
384	[99]		281	22.1	229	4.4	215	-1.9	242	9.5	219
392	[99]		363	14.9	418	26.1	287	-7.7	356	13.2	309
402	[99]		266	13.2	285	18.9	226	-2.2	259	10.8	231
403	[99]		218	25.2	185	11.9	164	0.6	189	13.8	163
404	[99]		263	11.8	296	21.6	224	-3.6	261	11.1	232
405	[99]		301	10	355	23.7	263	-3	306	11.4	271
406	[99]		246	11.4	244	10.7	210	-3.8	233	6.4	218
407	[99]		276	10.5	310	20.3	242	-2.1	276	10.5	247
408	[99]		214	21.5	130	-29.2	160	-5	168	0	168
409	[99]		245	15.9	285	27.7	205	-0.5	245	15.9	206
410	[99]		266	13.5	296	22.3	227	-1.3	263	12.5	230
411	[99]		293	8.9	355	24.8	261	-2.3	303	11.9	267

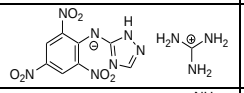
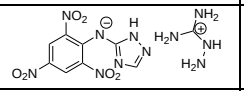
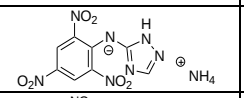
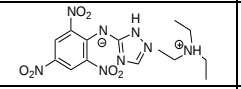
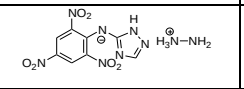
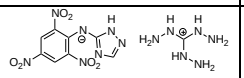
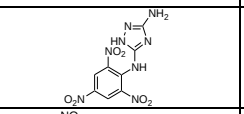
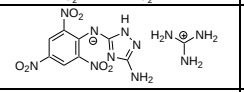
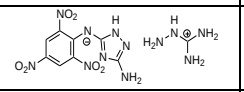
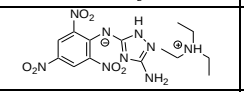
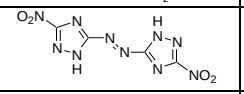
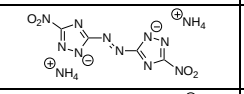
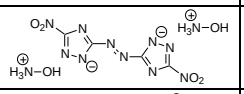
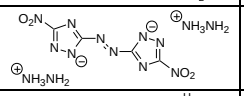
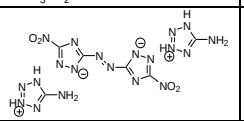
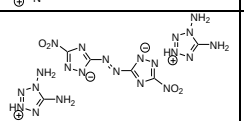
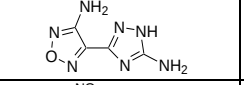
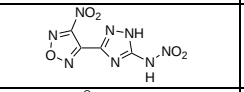
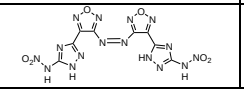
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
412	[99]		293	10.9	352	25.9	253	-3.2	299	12.7	261
413	[99]		264	12.5	322	28.3	221	-4.5	269	14.1	231
414	[99]		318	0.6	398	20.6	305	-3.6	340	7.1	316
415	[99]		289	0.3	363	20.7	279	-3.2	310	7.1	288
416	[99]		334	-2.4	405	15.6	327	-4.6	355	3.7	342
417	[99]		297	11.4	352	25.3	252	-4.4	300	12.3	263
418	[99]		329	0.6	403	18.9	309	-5.8	347	5.8	327
419	[99]		318	0	403	21.1	301	-5.6	341	6.7	318
420	[99]		329	8.8	345	13	283	-6	319	6	300
421	[99]		369	6.5	397	13.1	326	-5.8	364	5.2	345
422	[99]		344	6.7	402	20.1	299	-7.4	348	7.8	321
454	[103]		363	14.9	418	26.1	287	-7.7	356	13.2	309

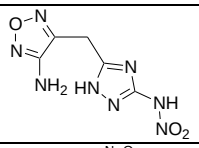
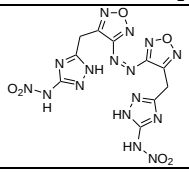
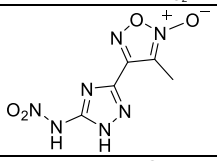
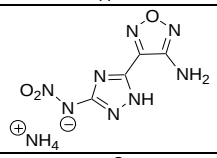
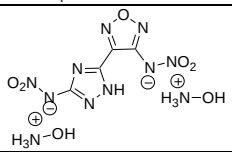
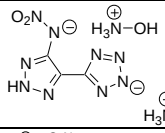
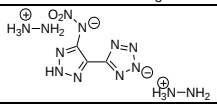
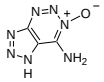
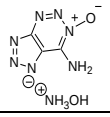
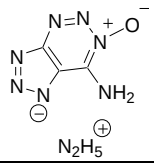
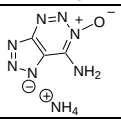
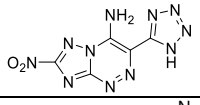
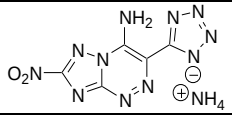
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455	[103]		350	25.1	390	32.8	252	-4	331	20.8	262
456	[103]		302	13.9	418	37.8	255	-2	325	20	260
457	[103]		264	-18.6	364	14	262	-19.5	297	-5.4	313
458	[103]		230	-8.3	364	31.6	226	-10.2	273	8.8	249
459	[104]		363	3.2	425	17.3	317	-10.9	368	4.5	351.4
465	[105]		376	12	364	9.1	327	-1.2	356	7	331
469	[105]		310	11	371	25.6	263	-4.9	315	12.4	276

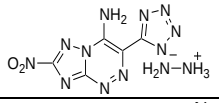
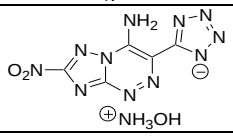
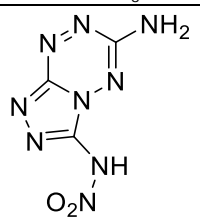
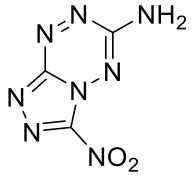
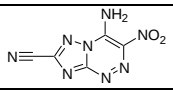
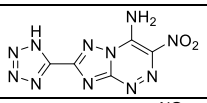
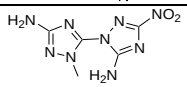
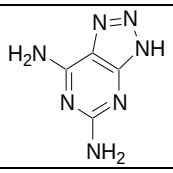
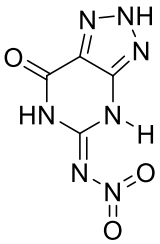
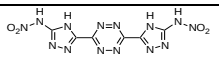
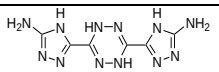
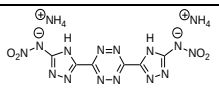
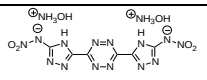
2.3.12 The detonation pressures of triazoles

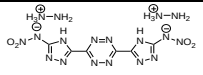
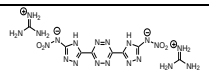
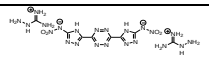
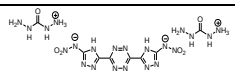
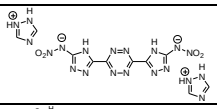
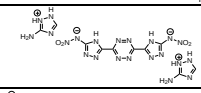
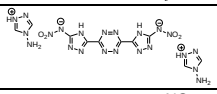
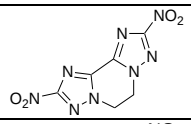
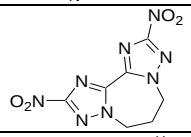
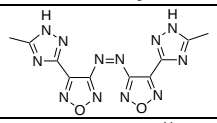
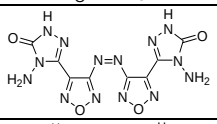
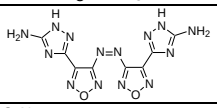
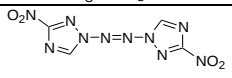
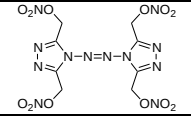
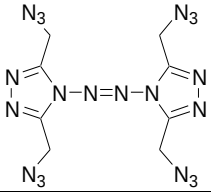
Table 63. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the triazoles.

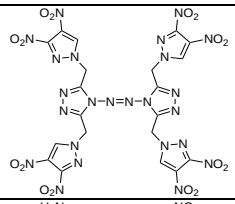
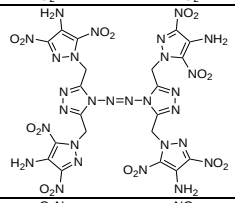
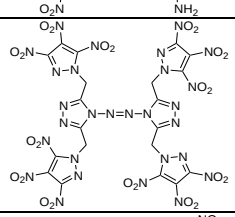
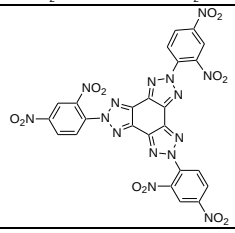
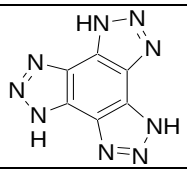
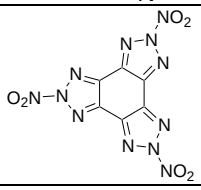
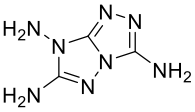
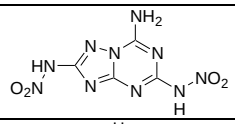
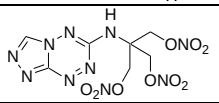
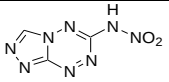
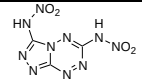
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
5	[23] [26]		351	13.1	361	15.5	300	-1.7	337	9.5	305
9	[28]		384	3.9	454	18.7	406	9.1	414	10.9	369

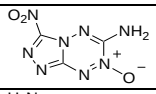
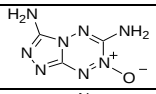
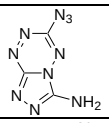
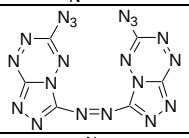
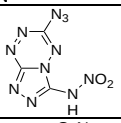
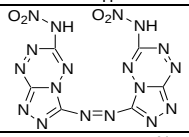
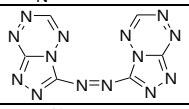
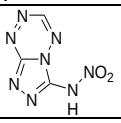
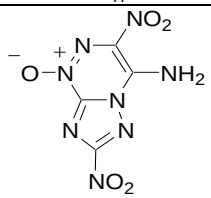
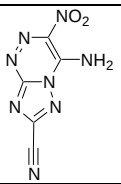
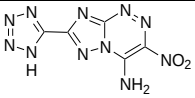
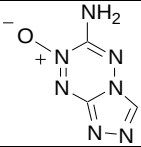
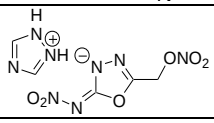
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
99	[55]		218	3.2	242	12.8	207	-1.9	222	5	211
100	[55]		247	-8.5	254	-5.5	249	-7.6	250	-7.2	268
101	[55]		321	10	242	-19.4	268	-7.8	277	-4.3	289
102	[55]		154	-2.6	42	-276.2	146	-8.2	114	-38.6	158
103	[55]		223	1.3	256	14.1	217	-1.4	232	5.2	220
104	[55]		170	-22.4	275	24.4	206	-1	217	4.1	208
105	[55]		296	6.1	256	-8.6	256	-8.6	269	-3.3	278
106	[55]		188	1.6	254	27.2	186	0.5	209	11.5	185
107	[55]		197	-8.6	265	19.2	210	-1.9	224	4.5	214
108	[55]		150	-0.7	60	-151.7	140	-7.9	117	-29.1	151
156	[66]		365	4.9	440	21.1	323	-7.4	376	7.7	347
157	[66]		349	15.5	402	26.6	279	-5.7	343	14	295
158	[66]		356	7.3	436	24.3	315	-4.8	369	10.6	330
159	[66]		314	-4.8	410	19.8	310	-6.1	345	4.6	329
160	[66]		293	11.9	433	40.4	266	3	331	22.1	258
161	[66]		329	10.6	436	32.6	271	-8.5	345	14.8	294
194	[71]		261	17.6	92	-133.7	193	-11.4	182	-18.1	215
197	[73]		352	-2.3	420	14.3	337	-6.8	370	2.7	360
198	[73]		364	4.1	388	10.1	320	-9.1	357	2.2	349

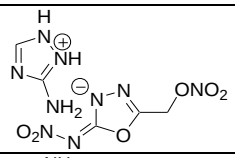
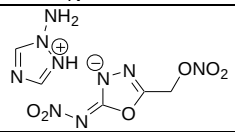
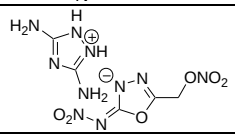
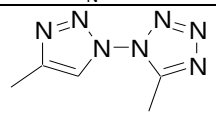
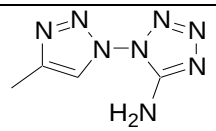
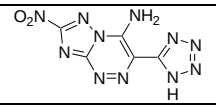
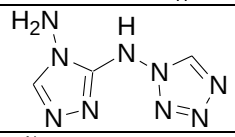
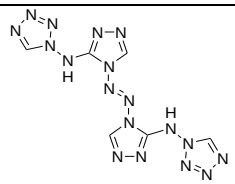
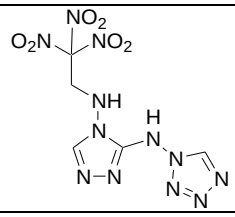
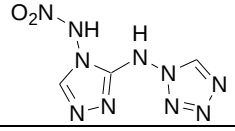
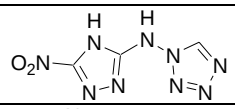
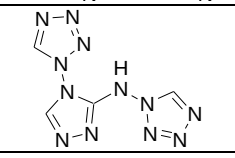
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
199	[73]		258	3.5	275	9.5	238	-4.6	257	3.1	249
200	[73]		277	6.1	320	18.8	248	-4.8	282	7.8	260
201	[73]		289	2.4	300	6	269	-4.8	286	1.4	282
202	[73]		277	11.2	326	24.5	239	-2.9	281	12.5	246
203	[73]		290	-26.2	428	14.5	292	-25.3	337	-8.6	366
208	[74]		337	-3.3	416	16.3	330	-5.5	361	3.6	348
209	[74]		264	-14	317	5	276	-9.1	270	-11.5	301
225	[79]		321	5.6	257	-17.9	276	-9.8	285	-6.3	303
228	[79]		313	10.5	305	8.2	260	-7.7	293	4.4	280
229	[79]		285	-17.9	126	-166.7	251	-33.9	221	-52	336
230	[79]		309	8.7	131	-115.3	252	-11.9	231	-22.1	282
231	[80]		364	9.9	357	8.1	276	-18.8	332	1.2	328
233	[80]		356	19.7	318	10.1	255	-12.2	310	7.7	286

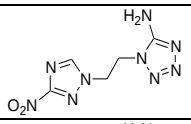
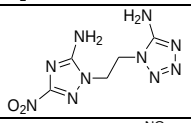
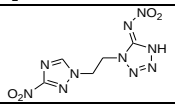
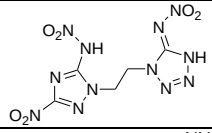
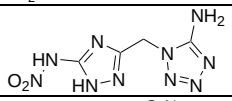
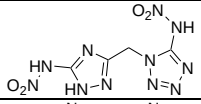
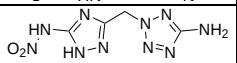
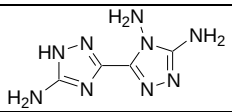
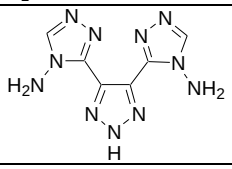
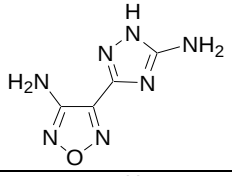
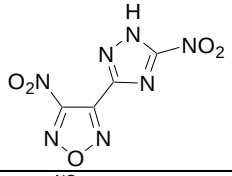
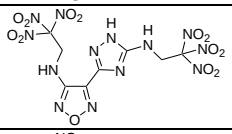
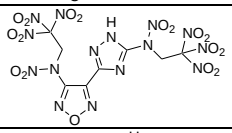
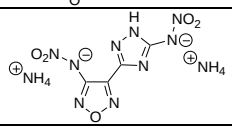
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
234	[80]		347	5.2	319	-3.1	284	-15.8	317	-3.8	329
235	[80]		367	9.8	361	8.3	294	-12.6	341	2.9	331
239	[81]		324	3.4	411	23.8	295	-6.1	343	8.7	313
240	[81]		352	3.7	416	18.5	314	-8	361	6.1	339
267	[88]		301	23.4	309	25.4	225	-2.4	263	12.4	230.5
268	[88]		342	20.9	357	24.3	260	-4	320	15.5	270.4
269	[89]		316	19.6	222	-14.4	244	-4.1	261	2.7	254
270	[90]		241	24.6	-	-	161	-12.8	201	9.7	181.6
271	[90]		354	8.1	312	-4.3	293	-11.1	320	-1.7	325.4
272	[91]		347	8.6	400	20.8	341	7	363	12.7	317
273	[91]		246	-48	-	-	263	-38.4	254	-43.3	364
274	[91]		345	9.9	374	16.8	293	-6.1	337	7.7	311
275	[91]		336	-12.5	406	6.9	353	-7.1	365	-3.6	378

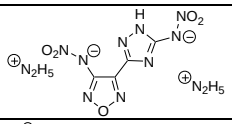
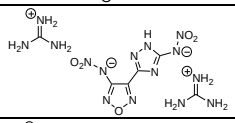
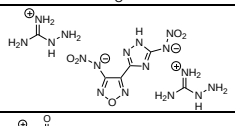
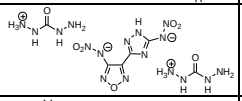
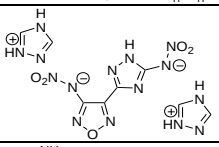
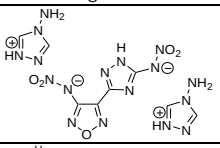
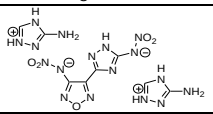
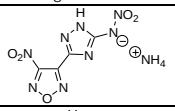
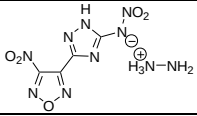
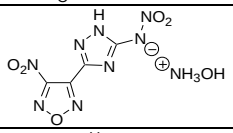
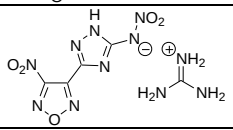
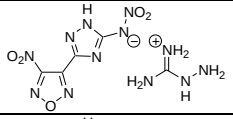
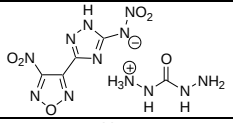
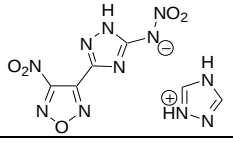
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
276	[91]		290	-16.2	383	12	312	-8	328	-2.7	337
277	[91]		265	-16.6	343	9.9	277	-11.6	295	-4.7	309
278	[91]		227	-40.1	352	9.7	285	-11.6	288	-10.4	318
279	[91]		247	-35.2	387	13.7	311	-7.4	315	-6	334
280	[91]		323	1.5	325	2.2	289	-10	312	-1.9	318
281	[91]		295	-13.9	335	-0.3	296	-13.5	309	-8.7	336
282	[91]		329	1.8	335	3.6	284	-13.7	316	-2.2	323
303	[94]		307	21.5	296	18.6	232	-3.9	278	13.3	241
304	[94]		261	24.5	238	17.2	195	-1	231	14.7	197
308	[95]		307	14	137	-92.7	211	-25.1	218	-21.1	264
312	[95]		272	17.6	286	21.7	217	-3.2	258	13.2	224
313	[95]		300	12.7	262	0	228	-14.9	263	0.4	262
315	[95]		362	7.5	440	23.9	311	-7.7	371	9.7	335
316	[95]		327	12.8	384	25.8	280	-1.8	330	13.6	285
317	[95]		231	9.5	-	-	194	-7.7	212	1.4	209

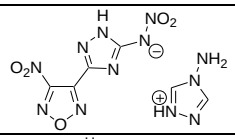
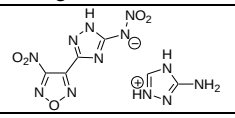
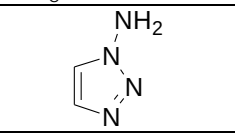
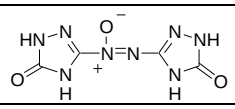
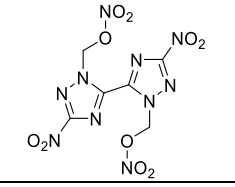
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
318	[95]		361	25.5	303	11.2	254	-5.9	306	12.1	269
319	[95]		322	15.2	322	15.2	261	-4.6	302	9.6	273
320	[95]		460	29.8	364	11.3	306	-5.6	377	14.3	323
336	[96]		274	27.4	154	-29.2	180	-10.6	203	2	199
337	[96]		302	35.8	-	-	153	-26.8	228	14.9	194
338	[96]		411	24.1	425	26.6	292	-6.8	376	17	312
339	[96]		273	5.1	-	-	217	-19.4	245	-5.7	259
346	[96]		333	-2.7	416	17.8	315	-8.6	355	3.7	342
350	[96]		337	12.8	325	9.5	302	2.6	321	8.4	294
351	[96]		324	6.2	416	26.9	293	-3.8	344	11.6	304
352	[96]		390	1.8	487	21.4	379	-1.1	419	8.6	383

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
353	[96]		370	-5.7	442	11.5	359	-8.9	390	-0.3	391
354	[96]		326	-6.4	240	-44.6	269	-29	278	-24.8	347
355	[96]		312	8.7	-	-	260	-9.6	286	0.3	285
356	[96]		381	20.7	-	-	283	-6.7	332	9	302
357	[96]		371	2.2	494	26.5	333	-9	399	9	363
358	[96]		404	1.5	460	13.5	192	-107.3	352	-13.1	398
359	[96]		423	17.7	-	-	298	-16.8	360	3.3	348
360	[96]		344	3.5	416	20.2	306	-8.5	355	6.5	332
362	[96]		388	8.8	420	15.7	338	-4.7	382	7.3	354
363	[96]		322	28.3	309	25.2	240	3.8	290	20.3	231
364	[96]		343	21.3	357	24.4	264	-2.3	321	15.9	270
369	[97]		292	12.7	257	0.8	240	-6.3	263	3	255
371	[98]		314	-1.8	312	-2.5	268	-19.3	298	-7.3	319.8

		Compound	$P_{C\text{-}J}$ [kbar] Keshavarz	Deviation Keshavarz [%]	$P_{C\text{-}J}$ [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	$P_{C\text{-}J}$ [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	$P_{C\text{-}J}$ [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	$P_{C\text{-}J}$ [kbar] from reference [kbar]
372	[98]		285	-12.7	324	0.9	325	1.2	311	-3.3	321.2
373	[98]		307	-9.8	339	0.6	338	0.3	328	-2.8	337.1
374	[98]		286	-12.3	348	7.7	279	-15.1	304	-5.7	321.2
377	[99]		203	-20.7	-	-	151	-62.3	177	-38.4	245
378	[99]		219	7.3		-	181	-12.2	200	-1.5	203
391	[99]		363	9.6	357	8.1	275	-19.3	332	1.2	328
396	[99]		262	-5.7	-	-	245	-13.1	254	-9.1	277
397	[99]		307	10.1	-	-	250	-10.4	278	0.7	276
398	[99]		327	-6.7	416	16.1	339	-2.9	361	3.3	349
399	[99]		323	-4	406	17.2	325	-3.4	351	4.3	336
400	[99]		305	-5.2	411	21.9	317	-1.3	344	6.7	321
401	[99]		315	9.8	-	-	265	-7.2	290	2.1	284

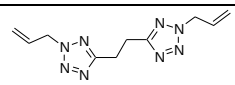
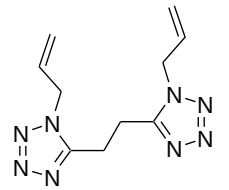
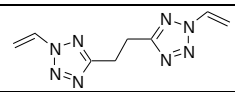
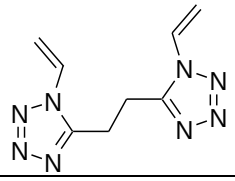
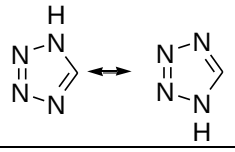
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
423	[99]		241	22	222	15.3	183	-2.7	215	12.6	188
424	[99]		259	16.6	230	6.1	200	-8	230	6.1	216
425	[99]		264	3	353	27.5	240	-6.7	286	10.5	256
426	[99]		277	-16.2	416	22.6	270	-19.3	321	-0.3	322
427	[99]		273	8.8	312	20.2	236	-5.5	274	9.1	249
428	[99]		324	1.9	420	24.3	274	-16.1	339	6.2	318
429	[99]		277	9	312	19.2	237	-6.3	275	8.4	252
430	[100]		237	13.9	-	-	174	-17.2	206	1	204
431	[100]		246	15.9	-	-	178	-16.3	212	2.4	207
432	[101]		223	13.5	92	-109.8	182	-6	166	-16.3	193
433	[101]		369	-0.5	414	10.4	340	-9.1	374	0.8	371
434	[101]		379	-0.5	396	3.8	369	-3.3	381	0	381
435	[101]		458	12.4	436	8	407	1.5	434	7.6	401
436	[101]		362	11.9	399	20.1	306	-4.2	356	10.4	319

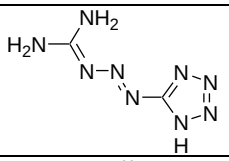
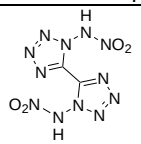
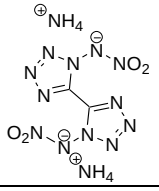
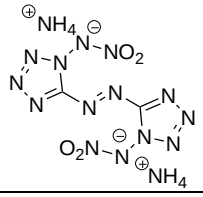
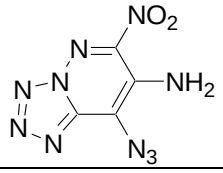
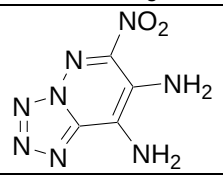
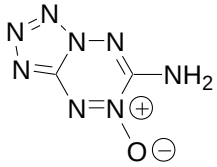
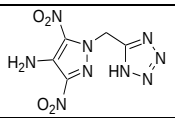
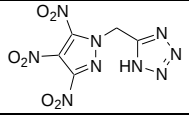
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
437	[101]		313	-11.5	410	14.9	341	-2.3	355	1.7	349
438	[101]		215	-6.5	360	36.4	222	-3.2	266	13.9	229
439			201	-31.8	372	28.8	254	-4.3	276	4	265
440	[101]		213	-30	402	31.1	273	-1.5	296	6.4	277
441			301	12.3	334	21	266	0.8	300	12	264
442	[101]		300	3	347	16.1	276	-5.4	308	5.5	291
443	[101]		269	0.4	347	22.8	255	-5.1	290	7.6	268
444	[101]		354	7.9	384	15.1	312	-4.5	350	6.9	326
445	[101]		340	-5.3	411	12.9	339	-5.6	363	1.4	358
446	[101]		357	0	419	14.8	344	-3.8	373	4.3	357
447	[101]		258	4.3	380	35	244	-1.2	294	16	247
448	[101]		246	-4.9	387	33.3	256	-0.8	296	12.8	258
449	[101]		252	-7.1	402	32.8	267	-1.1	307	12.1	270
450	[101]		296	8.4	363	25.3	261	-3.8	307	11.7	271

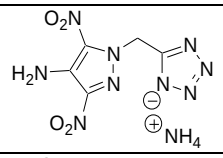
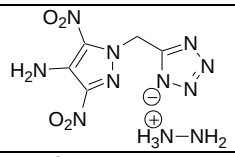
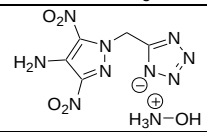
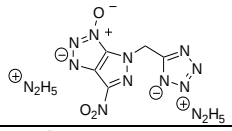
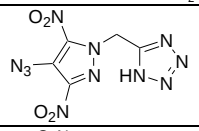
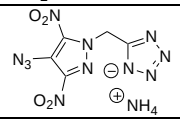
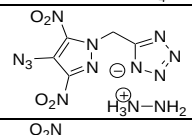
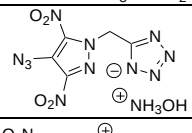
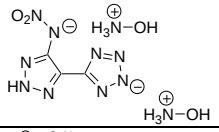
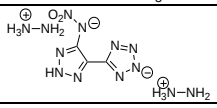
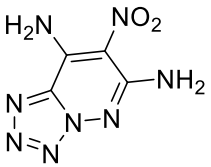
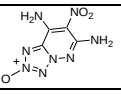
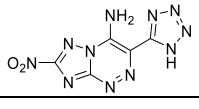
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
451	[101]		309	6.8	370	22.2	276	-4.3	318	9.4	288
452	[101]		284	7.4	370	28.9	255	-3.1	303	13.2	263
463	[24]		187	89.6	-	-	151	87.1	169	88.5	19.5
464	[24]		330	26.1	289	15.6	249	2	289	15.6	243.9
468	[105]		387	15.5	390	16.2	321	-1.9	366	10.7	327

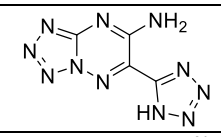
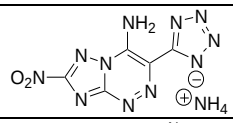
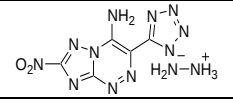
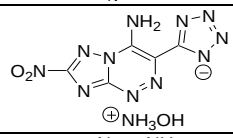
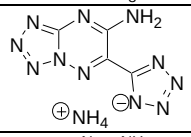
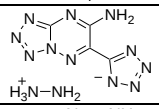
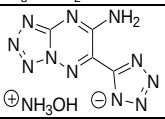
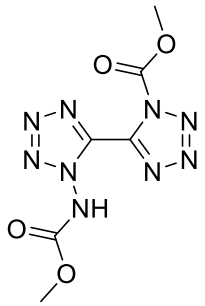
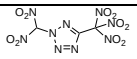
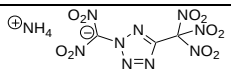
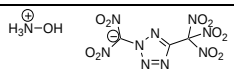
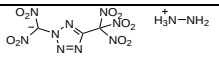
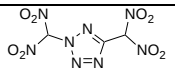
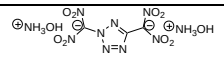
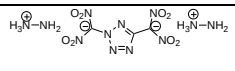
2.3.13 The detonation pressures of tetrazoles

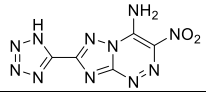
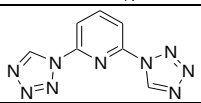
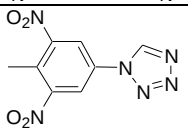
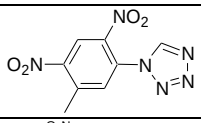
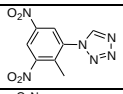
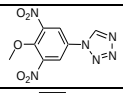
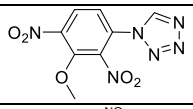
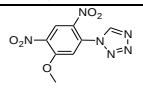
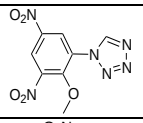
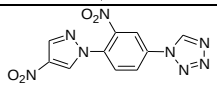
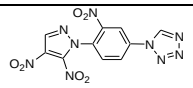
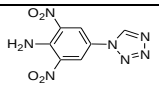
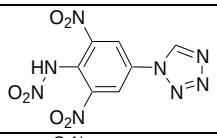
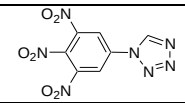
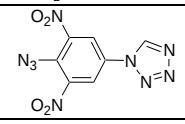
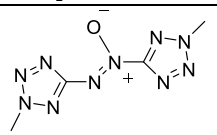
Table 64. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the tetrazoles.

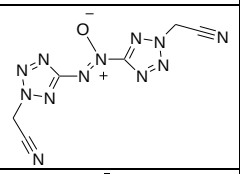
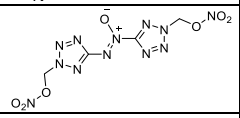
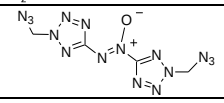
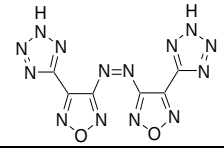
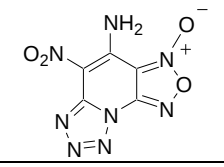
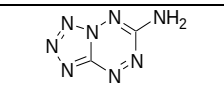
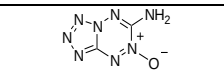
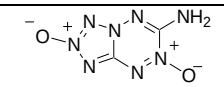
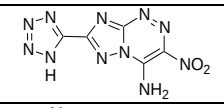
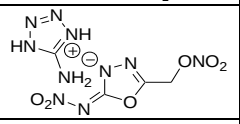
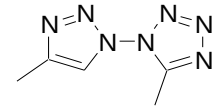
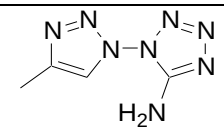
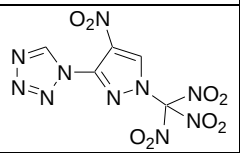
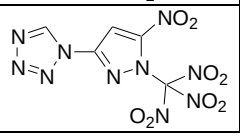
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
12	[30]		105	5.7	-	-	68	-45.6	86	-15.1	99
13	[30]		105	5.7	-	-	69	-43.5	87	-13.8	99
14	[30]		164	9.8	-	-	105	-41	134	-10.4	148
15	[30]		164	9.1	-	-	106	-40.6	135	-10.4	149
58	[38]		221	5	-	-	184	-14.1	202	-4	210

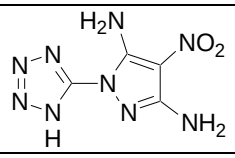
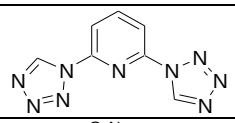
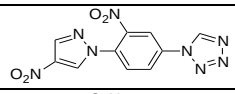
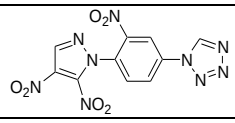
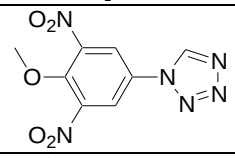
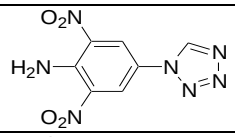
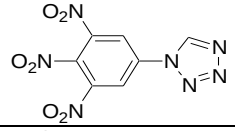
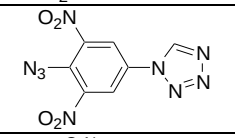
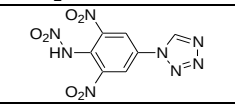
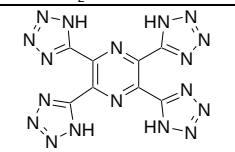
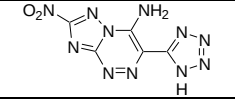
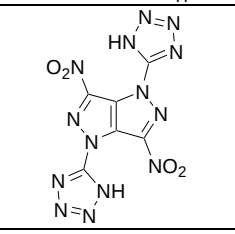
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
63	[38]		326	-3.7	-	-	259	-30.5	292	-15.8	338
109	[56]		418	-9.1	557	18.1	436	-4.6	470	3	456
110	[56]		391	7.7	506	28.7	296	-22	398	9.3	361
111	[56]		395	-5.8	529	21	397	-5.3	440	5	418
112	[56]		379	5.5	524	31.7	336	-6.5	413	13.3	358
131	[61]		344	8.4	403	21.8	291	-8.2	346	9	315
132	[61]		314	11.8	307	9.8	258	-7.4	293	5.5	277
149	[40]		374	2.7	417	12.7	332	-9.6	374	2.7	364
173	[69]		329	8.8	345	13	283	-6	319	6	300
174	[69]		369	6.5	397	13.1	326	-5.8	364	5.2	345

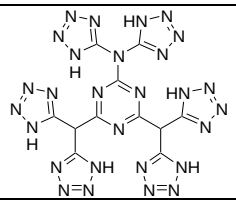
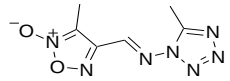
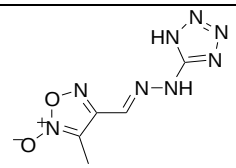
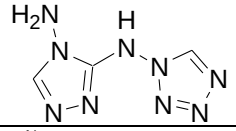
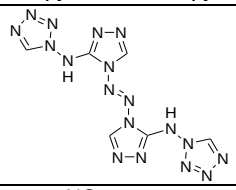
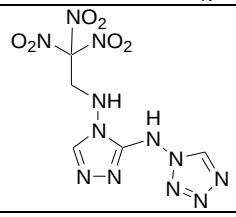
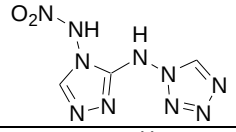
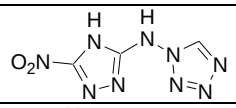
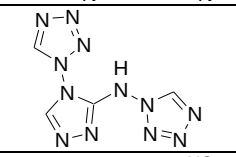
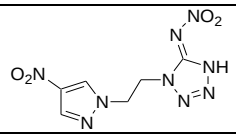
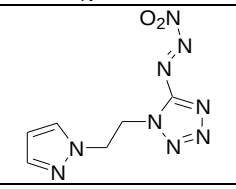
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
175	[69]		288	12.8	331	24.2	247	-1.6	289	13.1	251
176	[69]		255	-0.4	339	24.5	249	-2.8	281	8.9	256
177	[69]		306	2.6	355	16.1	287	-3.8	316	5.7	298
178	[69]		277	-4.3	322	10.2	267	-8.2	289	0	289
179	[69]		344	6.7	402	20.1	299	-7.4	348	7.8	321
180	[69]		292	11.6	386	33.2	251	-2.8	310	16.8	258
181	[69]		299	0.7	391	24	286	-3.8	325	8.6	297
182	[69]		331	2.7	403	20.1	305	-5.6	346	6.9	322
208	[74]		337	-3.3	416	16.3	330	-5.5	361	3.6	348
209	[74]		264	-14	317	5	276	-9.1	270	-11.5	301
223	[78]		340	10.9	307	1.3	271	-11.8	306	1	303
224	[78]		353	1.4	353	1.4	313	-11.2	340	-2.4	348
231	[80]		364	9.9	357	8.1	276	-18.8	332	1.2	328

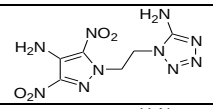
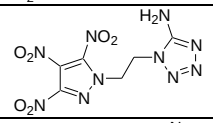
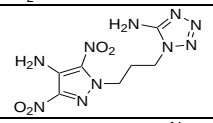
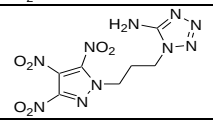
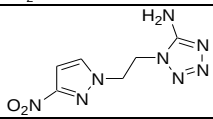
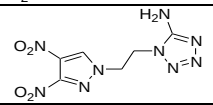
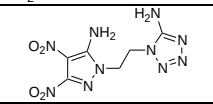
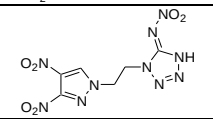
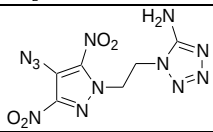
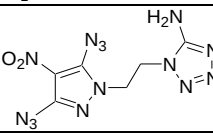
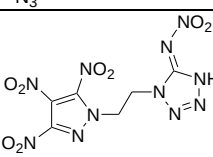
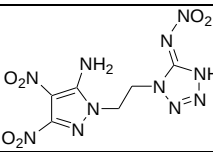
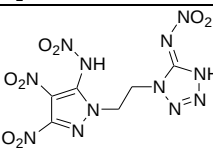
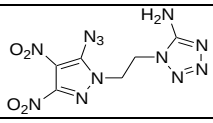
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
232	[80]		332	22.9	-	-	246	-4.1	289	11.4	256
233	[80]		356	19.7	318	10.1	255	-12.2	310	7.7	286
234	[80]		347	5.2	319	-3.1	284	-15.8	317	-3.8	329
235	[80]		367	9.8	361	8.3	294	-12.6	341	2.9	331
236	[80]		320	22.2	-	-	219	-13.7	270	7.8	249
237	[80]		302	8.6	-	-	240	-15	271	-1.8	276
238	[80]		322	13	236	-18.6	253	-10.7	270	-3.7	280
241	[82]		262	23.3	203	1	212	5.2	226	11.1	201
254	[85]		420	25.7	407	23.3	405	23	411	24.1	312
255	[85]		380	16.8	447	29.3	367	13.9	398	20.6	316
256	[85]		431	15.8	426	14.8	436	16.7	434	16.4	363
257	[85]		363	4.7	466	25.8	352	1.7	394	12.2	346
258	[85]		421	10.5	454	17	406	7.1	427	11.7	377
259	[85]		401	-5.7	482	12	420	-1	434	2.3	424
260	[85]		331	-14.5	477	20.5	376	-0.8	395	4.1	379

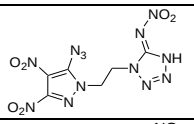
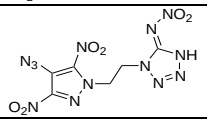
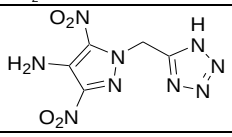
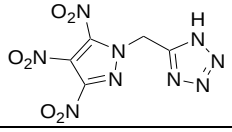
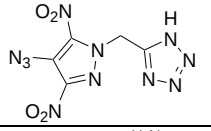
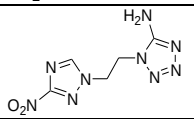
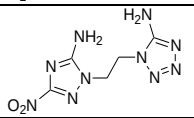
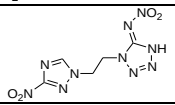
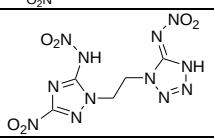
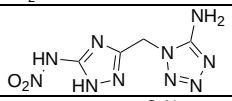
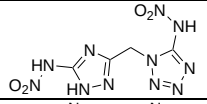
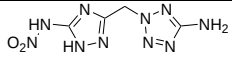
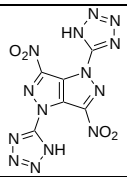
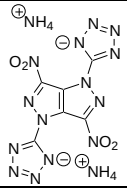
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
268	[88]		342	20.9	357	24.3	260	-4	320	15.5	270.4
283	[92]		247	30.4	-	-	157	-9.6	202	14.9	172
284	[92]		255	20	150	-36	197	-3.6	201	-1.5	204
285	[92]		245	20.4	150	-30	190	-2.6	195	0	195
286	[92]		242	21.1	150	-27.3	187	-2.1	193	1	191
287	[92]		274	27.4	168	-18.5	216	7.9	219	9.1	199
288	[92]		247	20.2	168	-17.3	195	-1	203	3	197
289	[92]		257	18.3	168	-25	205	-2.4	210	0	210
290	[92]		260	18.8	168	-25.6	207	-1.9	212	0.5	211
291	[92]		254	25.6	150	-26	184	-2.7	196	3.6	189
292	[92]		281	22.1	229	4.4	215	-1.9	242	9.5	219
293	[92]		265	9.1	223	-8.1	212	-13.7	233	-3.4	241
294	[92]		304	7.9	302	7.3	267	-4.9	291	3.8	280
295	[92]		342	17	289	1.7	286	0.7	306	7.2	284
296	[92]		288	9	293	10.6	234	-12	272	3.7	262
297	[93]		256	25.8	172	-10.5	184	-3.3	204	6.9	190

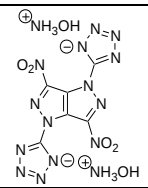
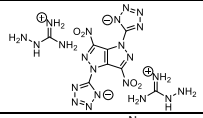
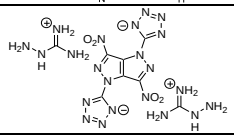
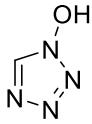
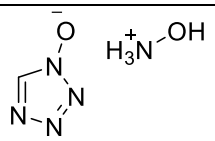
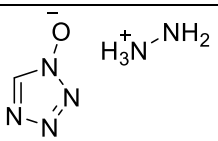
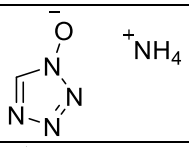
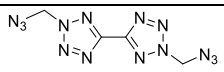
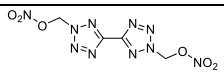
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
298	[93]		249	24.9	239	21.8	180	-3.9	223	16.1	187
299	[93]		333	22.5	478	46	275	6.2	362	28.7	258
300	[93]		279	36.6	390	54.6	180	1.7	283	37.5	177
310	[95]		311	10	389	28	239	-17.2	313	10.5	280
335	[96]		402	10.4	361	0.3	360	0	374	3.7	360
347	[96]		292	7.5	-	-	250	-8	271	0.4	270
348	[96]		374	2.7	417	12.7	332	-9.6	374	2.7	364
349	[96]		406	-1.7	480	14	372	-11	419	1.4	413
364	[96]		343	21.3	357	24.4	264	-2.3	321	15.9	270
375	[98]		305	-19.9	399	8.3	358	-2.2	354	-3.3	365.7
377	[99]		203	-20.7	-	-	151	-62.3	177	-38.4	245
378	[99]		219	7.3		-	181	-12.2	200	-1.5	203
379	[99]		370	8.1	435	21.8	330	-3	378	10.1	340
380	[99]		357	10.4	435	26.4	321	0.3	371	13.7	320

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
381	[99]		288	10.1	310	16.5	180	-43.9	259	0	259
382	[99]		247	30.4	-	-	157	-9.6	202	14.9	172
383	[99]		254	25.6	150	-26	184	-2.7	196	3.6	189
384	[99]		281	22.1	229	4.4	215	-1.9	242	9.5	219
385	[99]		274	27.4	184	-8.2	216	7.9	225	11.6	199
386	[99]		265	9.1	223	-8.1	212	-13.7	233	-3.4	241
387	[99]		342	17	289	1.7	286	0.7	306	7.2	284
388	[99]		288	9	293	10.6	234	-12	272	3.7	262
389	[99]		304	7.9	302	7.3	267	-4.9	291	3.8	280
390	[99]		389	28	-	-	263	-6.5	326	14.1	280
391	[99]		363	9.6	357	8.1	275	-19.3	332	1.2	328
392	[99]		363	14.9	418	26.1	287	-7.7	356	13.2	309

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
393	[99]		375	33.1	-	-	241	-4.1	308	18.5	251
394	[99]		223	13.7	115	-67.3	177	-8.7	172	-11.9	192.4
395	[99]		241	2.5	213	-10.3	228	-3.1	227	-3.5	235
396	[99]		262	-5.7	-	-	245	-13.1	254	-9.1	277
397	[99]		307	10.1	-	-	250	-10.4	278	0.7	276
398	[99]		327	-6.7	416	16.1	339	-2.9	361	3.3	349
399	[99]		323	-4	406	17.2	325	-3.4	351	4.3	336
400	[99]		305	-5.2	411	21.9	317	-1.3	344	6.7	321
401	[99]		315	9.8	-	-	265	-7.2	290	2.1	284
402	[99]		266	13.2	285	18.9	226	-2.2	259	10.8	231
403	[99]		218	25.2	185	11.9	164	0.6	189	13.8	163

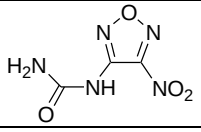
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
404	[99]		263	11.8	296	21.6	224	-3.6	261	11.1	232
405	[99]		301	10	355	23.7	263	-3	306	11.4	271
406	[99]		246	11.4	244	10.7	210	-3.8	233	6.4	218
407	[99]		276	10.5	310	20.3	242	-2.1	276	10.5	247
408	[99]		214	21.5	130	-29.2	160	-5	168	0	168
409	[99]		245	15.9	285	27.7	205	-0.5	245	15.9	206
410	[99]		266	13.5	296	22.3	227	-1.3	263	12.5	230
411	[99]		293	8.9	355	24.8	261	-2.3	303	11.9	267
412	[99]		293	10.9	352	25.9	253	-3.2	299	12.7	261
413	[99]		264	12.5	322	28.3	221	-4.5	269	14.1	231
414	[99]		318	0.6	398	20.6	305	-3.6	340	7.1	316
415	[99]		289	0.3	363	20.7	279	-3.2	310	7.1	288
416	[99]		334	-2.4	405	15.6	327	-4.6	355	3.7	342
417	[99]		297	11.4	352	25.3	252	-4.4	300	12.3	263

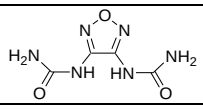
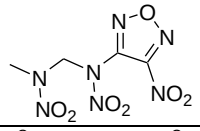
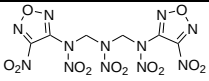
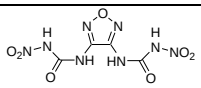
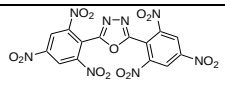
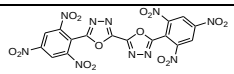
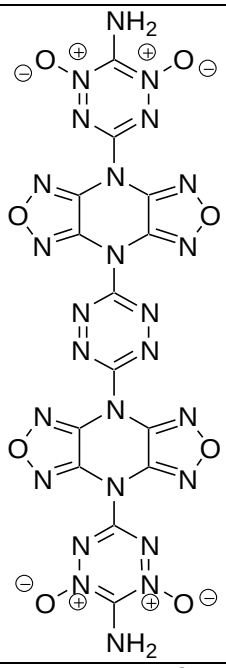
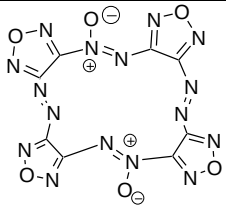
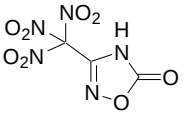
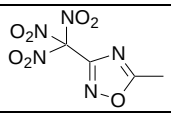
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
418	[99]		329	0.6	403	18.9	309	-5.8	347	5.8	327
419	[99]		318	0	403	21.1	301	-5.6	341	6.7	318
420	[99]		329	8.8	345	13	283	-6	319	6	300
421	[99]		369	6.5	397	13.1	326	-5.8	364	5.2	345
422	[99]		344	6.7	402	20.1	299	-7.4	348	7.8	321
423	[99]		241	22	222	15.3	183	-2.7	215	12.6	188
424	[99]		259	16.6	230	6.1	200	-8	230	6.1	216
425	[99]		264	3	353	27.5	240	-6.7	286	10.5	256
426	[99]		277	-16.2	416	22.6	270	-19.3	321	-0.3	322
427	[99]		273	8.8	312	20.2	236	-5.5	274	9.1	249
428	[99]		324	1.9	420	24.3	274	-16.1	339	6.2	318
429	[99]		277	9	312	19.2	237	-6.3	275	8.4	252
454	[103]		363	14.9	418	26.1	287	-7.7	356	13.2	309
455	[103]		350	25.1	390	32.8	252	-4	331	20.8	262

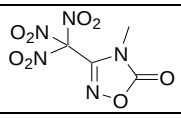
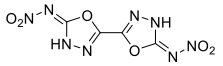
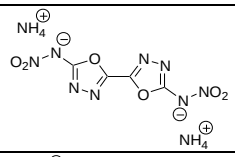
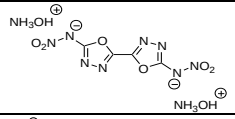
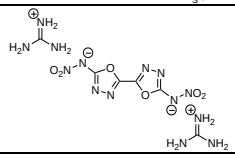
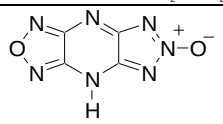
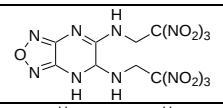
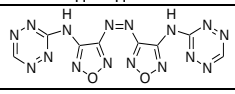
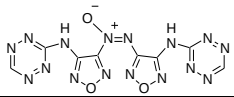
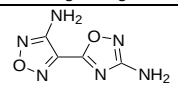
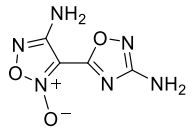
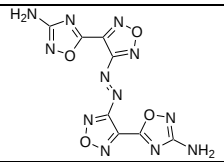
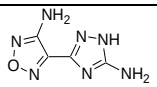
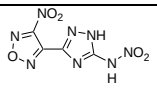
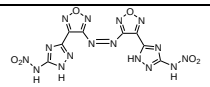
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
456	[103]		302	13.9	418	37.8	255	-2	325	20	260
457	[103]		264	-18.6	364	14	262	-19.5	297	-5.4	313
458	[103]		230	-8.3	364	31.6	226	-10.2	273	8.8	249
474	[106]		271	0.7	354	24	265	-1.5	297	9.4	269
475	[106]		280	-18.2	366	9.6	259	-27.8	302	-9.6	331
476	[106]		241	-32.4	122	-161.5	253	-26.1	205	-55.6	319
477	[106]		250	14.8	131	-62.6	240	11.3	207	-2.9	213
478	[107]		281	15.7	-	-	230	-3	256	7.4	237
479	[107]		326	12.3	389	26.5	284	-0.7	333	14.1	286

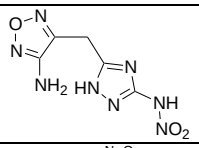
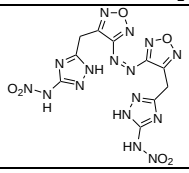
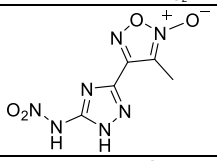
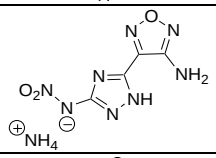
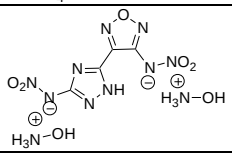
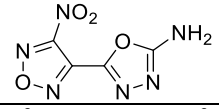
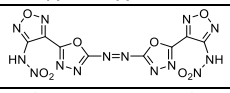
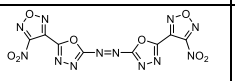
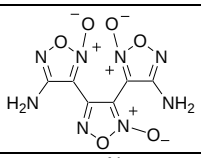
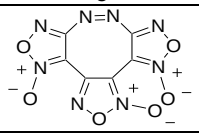
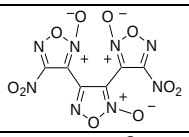
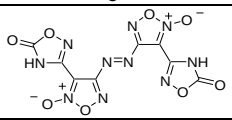
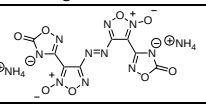
2.3.14 The detonation pressures of oxazoles

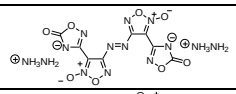
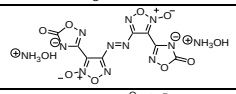
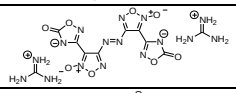
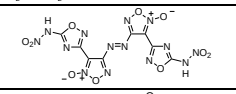
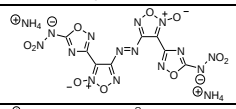
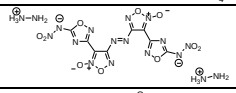
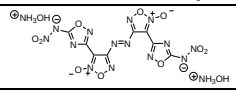
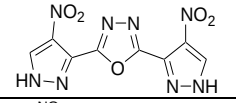
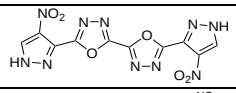
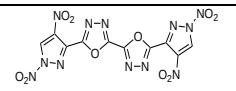
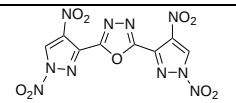
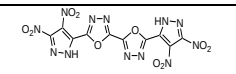
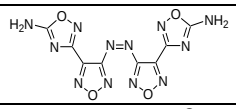
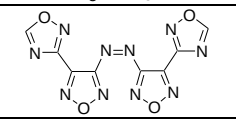
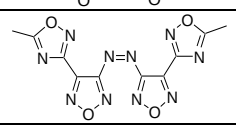
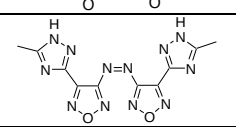
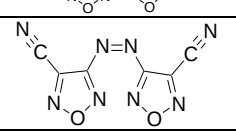
Table 65. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the oxazoles.

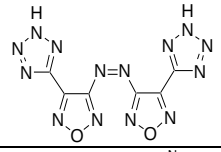
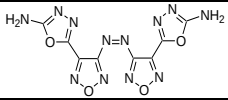
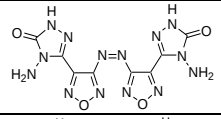
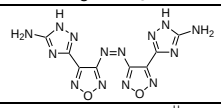
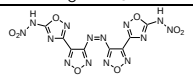
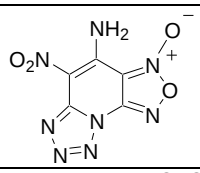
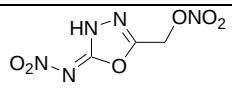
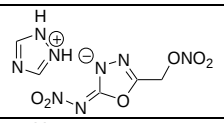
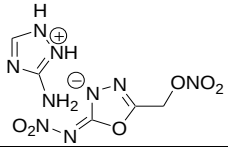
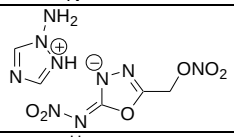
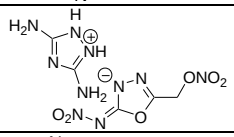
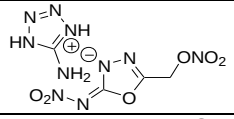
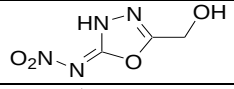
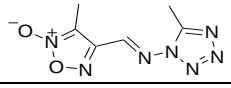
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
4	[25]		263	10.3	339	30.4	255	7.5	286	17.5	236

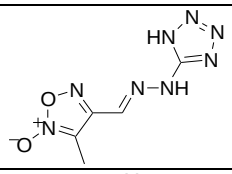
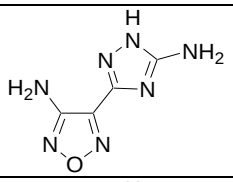
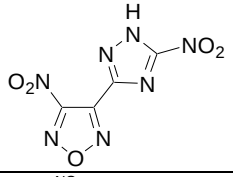
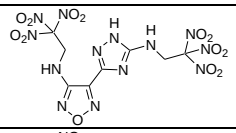
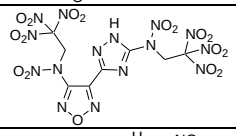
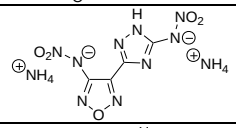
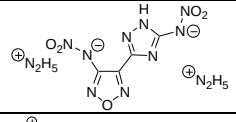
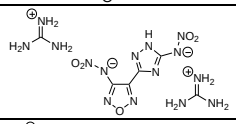
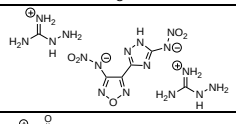
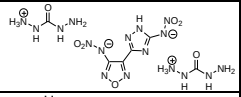
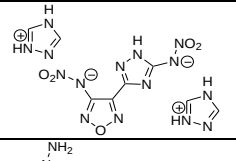
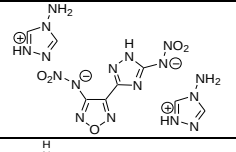
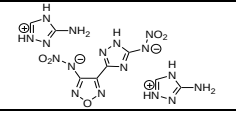
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
8	[25]		311	21.2	186	-31.7	246	0.4	248	1.2	245
10	[29]		322	0	401	19.7	320	-0.6	348	7.5	322
11	[29]		440	10.7	440	10.7	392	-0.3	424	7.3	393
16	[25]		317	-1.6	375	14.1	327	1.5	340	5.3	322
22	[32] [33]		309	9.7	230	-21.3	250	-11.6	263	-6.1	279
23	[32]		347	21.3	232	-17.7	256	-6.6	278	1.8	273
42	[38]		459	30.3	370	13.5	307	-4.2	379	15.6	320
43	[38] [39]		377	0	410	8	296	-27.4	361	-4.4	377
96	[54]		407	18.7	372	11	430	23	403	17.9	331
97	[54]		357	3.1	382	9.4	339	-2.1	359	3.6	346

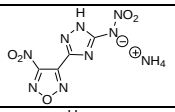
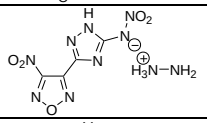
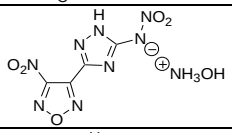
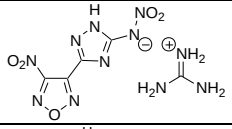
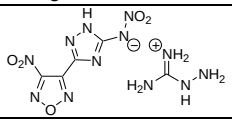
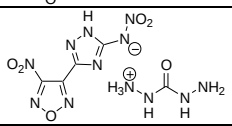
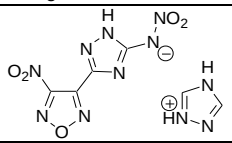
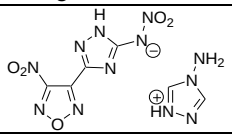
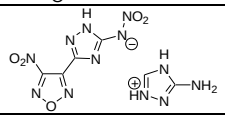
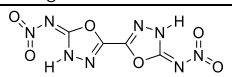
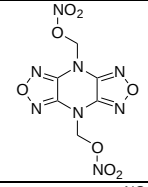
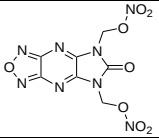
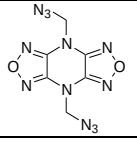
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
98	[54]		346	0	328	-5.5	349	0.9	341	-1.5	346
123	[58]		387	-1	343	-14	375	-4.3	368	-6.3	391
124	[58]		438	20.3	351	0.6	333	-4.8	374	6.7	349
125	[58]		404	15.6	381	10.5	369	7.6	385	11.4	341
126	[58]		271	8.5	326	23.9	248	0	282	12.1	248
137	[63]		346	6.4	360	10	282	-14.9	329	1.5	324
138	[63]		310	-3.5	375	14.4	315	-1.9	333	3.6	321
162	[67]		290	13.4	325	22.8	236	-6.4	284	11.6	251
163	[67]		326	13.2	350	19.1	262	-8	313	9.6	283
191	[71]		265	23	240	15	198	-3	234	12.8	204
192	[71]		308	13	298	10.1	254	-5.5	287	6.6	268
193	[71]		282	23.4	308	29.9	204	-5.9	265	18.5	216
194	[71]		261	17.6	92	-133.7	193	-11.4	182	-18.1	215
197	[73]		352	-2.3	420	14.3	337	-6.8	370	2.7	360
198	[73]		364	4.1	388	10.1	320	-9.1	357	2.2	349

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
199	[73]		258	3.5	275	9.5	238	-4.6	257	3.1	249
200	[73]		277	6.1	320	18.8	248	-4.8	282	7.8	260
201	[73]		289	2.4	300	6	269	-4.8	286	1.4	282
202	[73]		277	11.2	326	24.5	239	-2.9	281	12.5	246
203	[73]		290	-26.2	428	14.5	292	-25.3	337	-8.6	366
220	[77]		313	14.1	363	25.9	260	-3.5	312	13.8	269
221	[77]		355	17.5	352	16.8	277	-5.8	328	10.7	293
222	[77]		404	13.1	379	7.4	299	-17.4	346	-1.4	351
242	[83]		331	6.3	336	7.7	293	-5.8	320	3.1	310
243	[83]		409	3.2	368	-7.6	347	-14.1	375	-5.6	396
244	[83]		444	8.1	404	-1	381	-7.1	410	0.5	408
245	[84]		399	13	283	-22.6	321	-8.1	334	-3.9	347
246	[84]		323	15.5	285	4.2	246	-11	285	4.2	273

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
247	[84]		301	2.7	356	17.7	282	-3.9	313	6.4	293
248	[84]		337	8.9	310	1	293	-4.8	313	1.9	307
249	[84]		242	-10.3	280	4.6	198	-34.8	240	-11.3	267
250	[84]		436	5.3	386	-7	375	-10.1	399	-3.5	413
251	[84]		348	17	383	24.5	279	-3.6	337	14.2	289
252	[84]		336	5.1	394	19	310	-2.9	347	8.1	319
253	[84]		360	4.7	396	13.4	328	-4.6	361	5	343
262	[87]		309	12.2	222	-22.3	250	-8.6	260	-4.4	271.4
263	[87]		325	18.4	206	-28.8	246	-7.8	259	-2.4	265.3
264	[87]		395	13.3	300	-14.1	252	-35.8	316	-8.3	342.3
265	[87]		388	14.1	331	-0.7	329	-1.3	349	4.5	333.3
266	[87]		382	14.3	300	-9.2	263	-24.5	315	-4	327.5
305	[95]		359	21.2	283	0	256	-10.5	299	5.4	283
306	[95]		312	27.2	262	13.4	216	-5.1	263	13.7	227
307	[95]		318	28.9	172	-31.4	212	-6.6	234	3.4	226
308	[95]		307	14	137	-92.7	211	-25.1	218	-21.1	264
309	[95]		258	15.5	311	29.9	202	-7.9	257	15.2	218

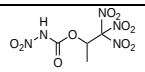
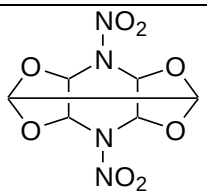
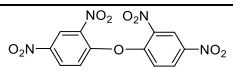
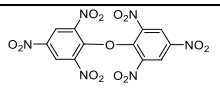
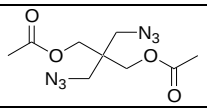
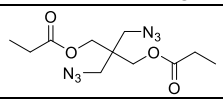
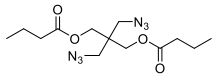
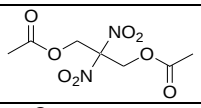
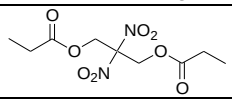
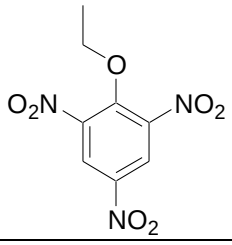
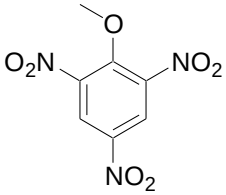
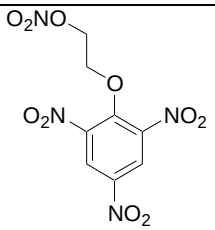
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
310	[95]		311	10	389	28	239	-17.2	313	10.5	280
311	[95]		350	22	257	-6.2	249	-9.6	285	4.2	273
312	[95]		272	17.6	286	21.7	217	-3.2	258	13.2	224
313	[95]		300	12.7	262	0	228	-14.9	263	0.4	262
314	[95]		520	11.3	372	-23.9	418	-10.3	437	-5.5	461
335	[96]		402	10.4	361	0.3	360	0	374	3.7	360
370	[98]		361	3.1	359	2.5	357	2	359	2.5	349.9
371	[98]		314	-1.8	312	-2.5	268	-19.3	298	-7.3	319.8
372	[98]		285	-12.7	324	0.9	325	1.2	311	-3.3	321.2
373	[98]		307	-9.8	339	0.6	338	0.3	328	-2.8	337.1
374	[98]		286	-12.3	348	7.7	279	-15.1	304	-5.7	321.2
375	[98]		305	-19.9	399	8.3	358	-2.2	354	-3.3	365.7
376	[98]		320	14.9	277	1.7	288	5.5	295	7.7	272.2
394	[99]		223	13.7	115	-67.3	177	-8.7	172	-11.9	192.4

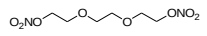
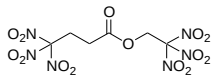
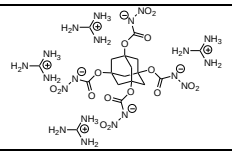
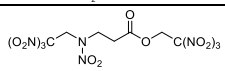
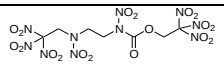
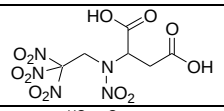
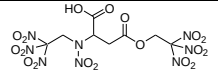
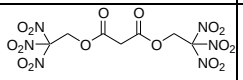
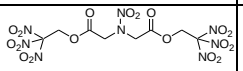
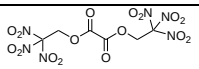
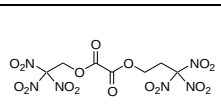
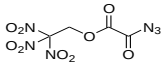
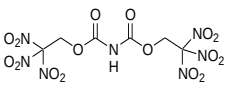
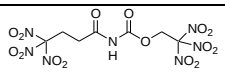
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
395	[99]		241	2.5	213	-10.3	228	-3.1	227	-3.5	235
432	[101]		223	13.5	92	-109.8	182	-6	166	-16.3	193
433	[101]		369	-0.5	414	10.4	340	-9.1	374	0.8	371
434	[101]		379	-0.5	396	3.8	369	-3.3	381	0	381
435	[101]		458	12.4	436	8	407	1.5	434	7.6	401
436	[101]		362	11.9	399	20.1	306	-4.2	356	10.4	319
437	[101]		313	-11.5	410	14.9	341	-2.3	355	1.7	349
438	[101]		215	-6.5	360	36.4	222	-3.2	266	13.9	229
439			201	-31.8	372	28.8	254	-4.3	276	4	265
440	[101]		213	-30	402	31.1	273	-1.5	296	6.4	277
441			301	12.3	334	21	266	0.8	300	12	264
442	[101]		300	3	347	16.1	276	-5.4	308	5.5	291
443	[101]		269	0.4	347	22.8	255	-5.1	290	7.6	268

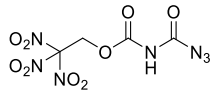
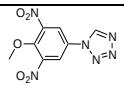
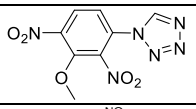
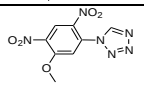
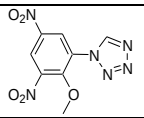
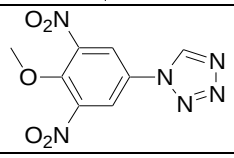
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
444	[101]		354	7.9	384	15.1	312	-4.5	350	6.9	326
445	[101]		340	-5.3	411	12.9	339	-5.6	363	1.4	358
446	[101]		357	0	419	14.8	344	-3.8	373	4.3	357
447	[101]		258	4.3	380	35	244	-1.2	294	16	247
448	[101]		246	-4.9	387	33.3	256	-0.8	296	12.8	258
449	[101]		252	-7.1	402	32.8	267	-1.1	307	12.1	270
450	[101]		296	8.4	363	25.3	261	-3.8	307	11.7	271
451	[101]		309	6.8	370	22.2	276	-4.3	318	9.4	288
452	[101]		284	7.4	370	28.9	255	-3.1	303	13.2	263
453	[102]		392	-3	343	-17.8	363	-11.3	366	-10.4	403.9
466	[105]		373	10.5	341	2.1	321	-4	345	3.2	334
467	[105]		362	24.6	290	5.9	265	-3	306	10.8	273
470	[105]		289	3.8	319	12.9	238	-16.8	282	1.4	278

2.3.15 The detonation pressures of ethers and esters

Table 66. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the ethers and esters.

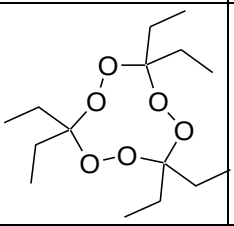
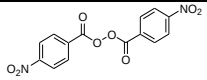
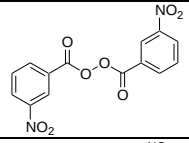
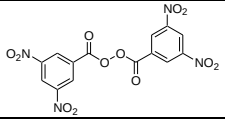
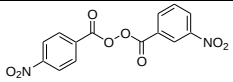
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
2	[22]		259	12	345	33.9	259	12	259	12	228
3	[23] [24]		394	12.9	187	-83.4	311	-10.3	319	-7.5	343
24	[34]		260	35.4	130	-29.2	202	16.8	197	14.7	168
25	[34]		329	24	239	-4.6	273	8.4	280	10.7	250
26	[35]		109	27.5	-	-	81	2.5	-	-	79
27	[35]		89	19.1	-	-	68	-5.9	-	-	72
28	[35]		68	8.8	-	-	54	-14.8	-	-	62
29	[35]		154	35.1	47	-112.8	122	18	108	7.4	100
30	[35]		116	35.3	-	-	93	19.4	-	-	75
39	[26]		210	9	132	-44.7	184	-3.8	175	-9.1	191
40	[38]		266	23.3	178	-14.6	226	9.7	223	8.5	204
41	[38]		282	16	224	-5.8	255	7.1	254	6.7	237

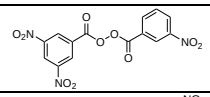
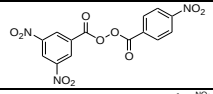
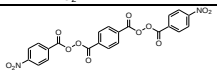
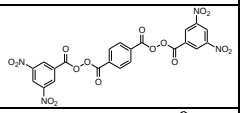
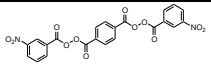
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
44	[38]		164	12.8	90	-58.9	153	6.5	136	-5.1	143
45	[38]		353	5.1	340	1.5	330	-1.5	341	1.8	335
76	[49]		68	-133.8	182	12.6	160	0.6	137	-16.1	159
79	[50]		338	13.6	351	16.8	313	6.7	334	12.6	292
81	[50]		428	14.7	384	4.9	387	5.7	400	8.8	365
82	[50]		291	19.6	266	12	248	5.6	268	12.7	234
83	[50]		306	19.3	323	23.5	270	8.5	300	17.7	247
94	[53]		345	28.7	309	20.4	306	19.6	320	23.1	246
95	[53]		360	33.3	323	25.7	319	24.8	334	28.1	240
113	[57]		392	27	292	2.1	349	18.1	344	16.9	286
114	[57]		333	18.9	309	12.6	299	9.7	314	14	270
115	[57]		335	16.4	344	18.6	304	7.9	328	14.6	280
116	[57]		415	42.9	314	24.5	370	35.9	366	35.2	237
117	[57]		279	13.6	319	24.5	260	7.3	270	10.7	241

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
118	[57]		233	18.9	355	46.8	215	12.1	268	29.5	189
287	[92]		274	27.4	168	-18.5	216	7.9	219	9.1	199
288	[92]		247	20.2	168	-17.3	195	-1	203	3	197
289	[92]		257	18.3	168	-25	205	-2.4	210	0	210
290	[92]		260	18.8	168	-25.6	207	-1.9	212	0.5	211
385	[99]		274	27.4	184	-8.2	216	7.9	225	11.6	199

2.3.16 The detonation pressures of peroxides

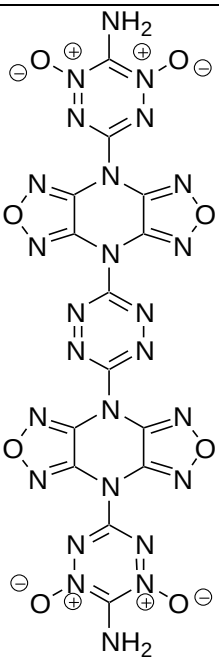
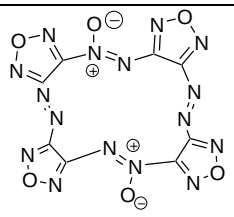
Table 67. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the peroxides.

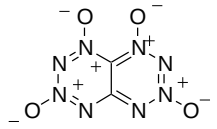
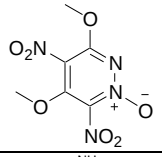
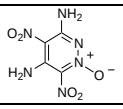
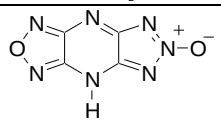
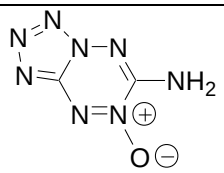
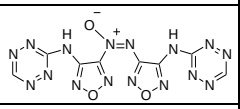
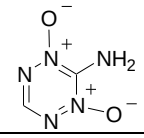
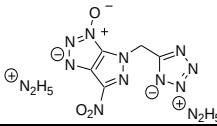
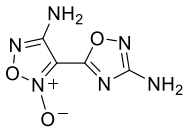
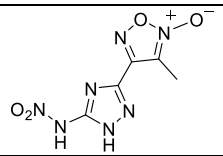
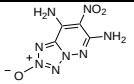
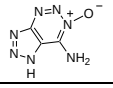
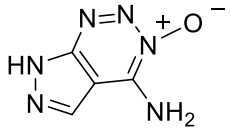
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
49	[42]		79	-44.3	-	-	69	-65.2	-	-	114
67	[48]		194	33	-	-	137	5.1	-	-	130
68	[48]		194	33	-	-	137	5.1	-	-	130
69	[48]		252	20.6	94	-112.8	202	1	183	-9.3	200
70	[48]		211	57.3	-	-	148	39.2	-	-	90

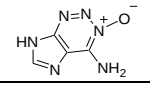
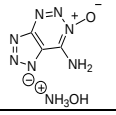
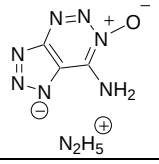
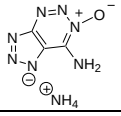
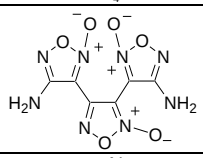
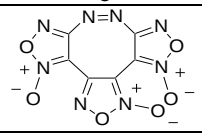
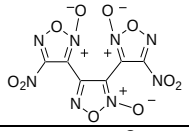
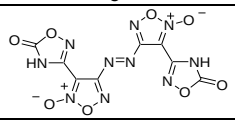
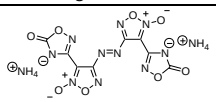
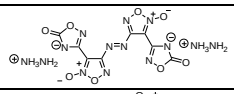
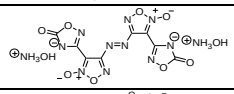
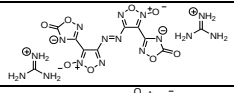
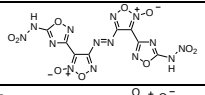
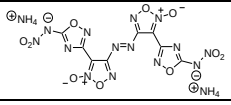
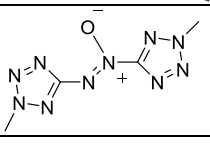
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
71	[48]		233	22.7	25	-620	178	-1.1	145	-24.1	180
72	[48]		230	26.1	25	-580	176	3.4	144	-18.1	170
73	[48]		128	29.7	-	-	104	13.5	-	-	90
74	[48]		160	18.8	4	-3150	138	5.8	101	-28.7	130
75	[48]		126	28.6	-	-	138	34.8	-	-	90

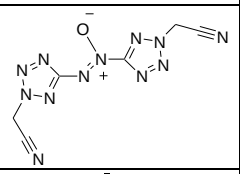
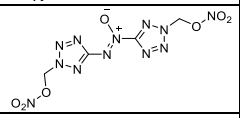
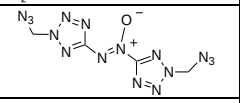
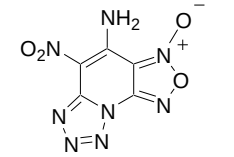
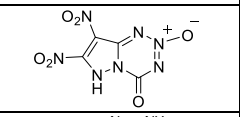
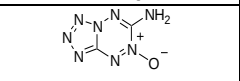
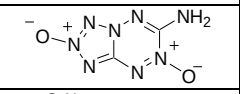
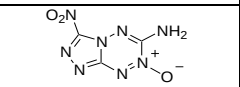
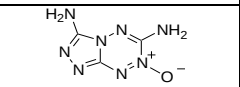
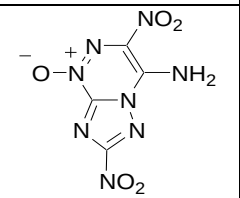
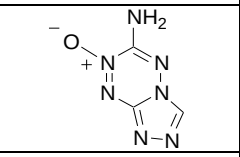
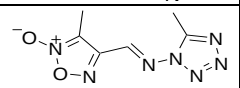
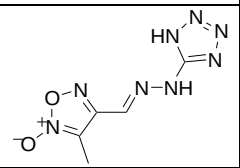
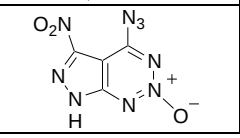
2.3.17 The detonation pressures of nitroxides

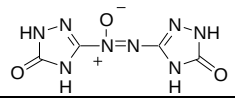
Table 68. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the nitroxides.

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
42	[38]		459	30.3	370	13.5	307	-4.2	379	15.6	320
43	[38] [39]		377	0	410	8	296	-27.4	361	-4.4	377

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
57	[46]		451	18.4	545	32.5	357	-3.1	451	18.4	368
127	[59]		241	13.7	217	4.1	220	5.5	226	8	208
128	[59]		318	5	358	15.6	307	1.6	328	7.9	302
137	[63]		346	6.4	360	10	282	-14.9	329	1.5	324
149	[40]		374	2.7	417	12.7	332	-9.6	374	2.7	364
163	[67]		326	13.2	350	19.1	262	-8	313	9.6	283
164	[67]		307	1.6	365	17.3	291	-3.8	321	5.9	302
178	[69]		277	-4.3	322	10.2	267	-8.2	289	0	289
192	[71]		308	13	298	10.1	254	-5.5	287	6.6	268
201	[73]		289	2.4	300	6	269	-4.8	286	1.4	282
224	[78]		353	1.4	353	1.4	313	-11.2	340	-2.4	348
225	[79]		321	5.6	257	-17.9	276	-9.8	285	-6.3	303
226	[79]		291	12	95	-169.5	225	-13.8	204	-25.5	256

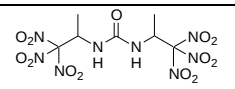
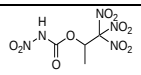
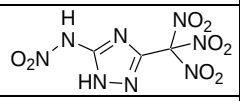
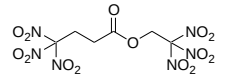
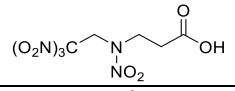
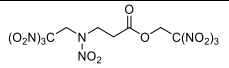
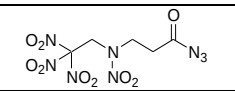
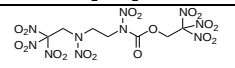
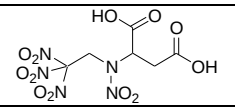
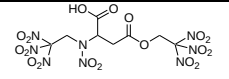
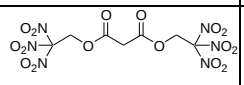
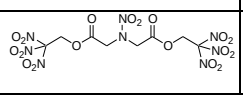
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
227	[79]		281	17.1	95	-145.3	210	-11	195	-19.5	233
228	[79]		313	10.5	305	8.2	260	-7.7	293	4.4	280
229	[79]		285	-17.9	126	-166.7	251	-33.9	221	-52	336
230	[79]		309	8.7	131	-115.3	252	-11.9	231	-22.1	282
242	[83]		331	6.3	336	7.7	293	-5.8	320	3.1	310
243	[83]		409	3.2	368	-7.6	347	-14.1	375	-5.6	396
244	[83]		444	8.1	404	-1	381	-7.1	410	0.5	408
245	[84]		399	13	283	-22.6	321	-8.1	334	-3.9	347
246	[84]		323	15.5	285	4.2	246	-11	285	4.2	273
247	[84]		301	2.7	356	17.7	282	-3.9	313	6.4	293
248	[84]		337	8.9	310	1	293	-4.8	313	1.9	307
249	[84]		242	-10.3	280	4.6	198	-34.8	240	-11.3	267
250	[84]		436	5.3	386	-7	375	-10.1	399	-3.5	413
251	[84]		348	17	383	24.5	279	-3.6	337	14.2	289
297	[93]		256	25.8	172	-10.5	184	-3.3	204	6.9	190

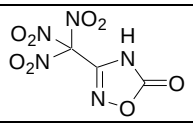
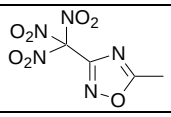
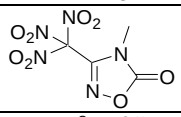
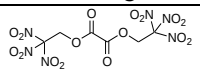
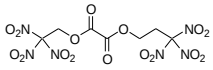
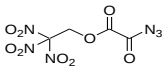
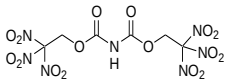
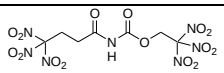
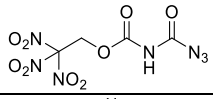
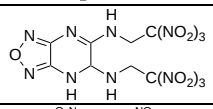
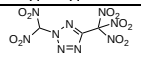
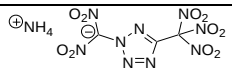
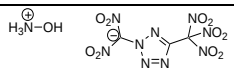
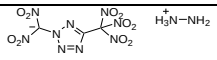
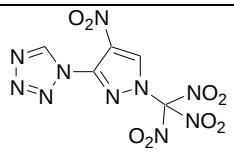
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
298	[93]		249	24.9	239	21.8	180	-3.9	223	16.1	187
299	[93]		333	22.5	478	46	275	6.2	362	28.7	258
300	[93]		279	36.6	390	54.6	180	1.7	283	37.5	177
335	[96]		402	10.4	361	0.3	360	0	374	3.7	360
345	[96]		445	25.4	397	16.4	372	10.8	405	18	332
348	[96]		374	2.7	417	12.7	332	-9.6	374	2.7	364
349	[96]		406	-1.7	480	14	372	-11	419	1.4	413
353	[96]		370	-5.7	442	11.5	359	-8.9	390	-0.3	391
354	[96]		326	-6.4	240	-44.6	269	-29	278	-24.8	347
362	[96]		388	8.8	420	15.7	338	-4.7	382	7.3	354
369	[97]		292	12.7	257	0.8	240	-6.3	263	3	255
394	[99]		223	13.7	115	-67.3	177	-8.7	172	-11.9	192.4
395	[99]		241	2.5	213	-10.3	228	-3.1	227	-3.5	235
459	[104]		363	3.2	425	17.3	317	-10.9	368	4.5	351.4

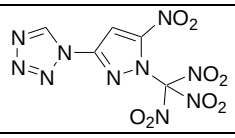
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
464	[24]		330	26.1	289	15.6	249	2	289	15.6	243.9

2.3.18 The detonation pressures of molecules with a -C(NO$_2$)$_3$ group present

Table 69. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the molecules with -C(NO$_2$)$_3$ groups.

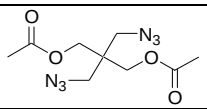
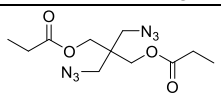
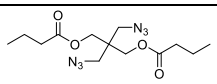
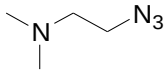
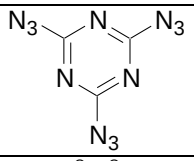
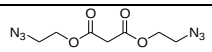
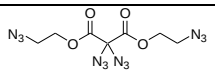
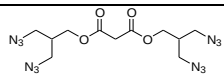
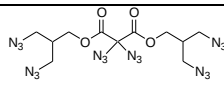
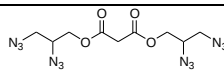
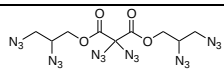
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
1	[22]		328	2.1	328	2.1	326	1.5	327	1.8	321
2	[22]		259	12	345	33.9	259	12	259	12	228
9	[28]		384	3.9	454	18.7	406	9.1	414	10.9	369
45	[38]		353	5.1	340	1.5	330	-1.5	341	1.8	335
78	[50]		313	11.5	299	7.4	287	3.5	300	7.7	277
79	[50]		338	13.6	351	16.8	313	6.7	334	12.6	292
80	[50]		310	6.1	356	18.3	294	1	320	9.1	291
81	[50]		428	14.7	384	4.9	387	5.7	400	8.8	365
82	[50]		291	19.6	266	12	248	5.6	268	12.7	234
83	[50]		306	19.3	323	23.5	270	8.5	300	17.7	247
94	[53]		345	28.7	309	20.4	306	19.6	320	23.1	246
95	[53]		360	33.3	323	25.7	319	24.8	334	28.1	240

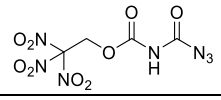
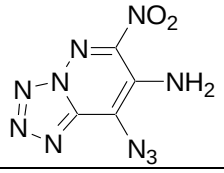
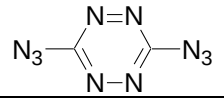
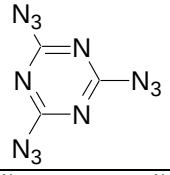
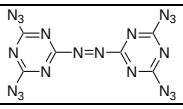
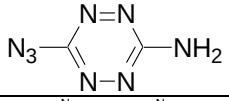
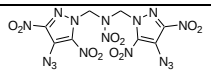
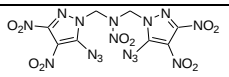
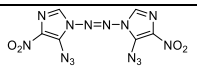
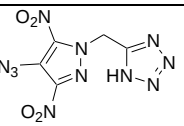
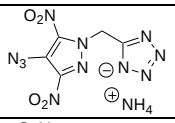
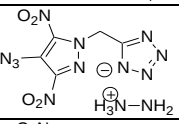
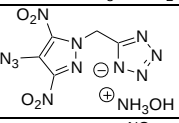
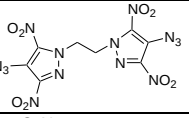
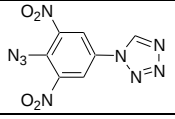
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
96	[54]		407	18.7	372	11	430	23	403	17.9	331
97	[54]		357	3.1	382	9.4	339	-2.1	359	3.6	346
98	[54]		346	0	328	-5.5	349	0.9	341	-1.5	346
113	[57]		392	27	292	2.1	349	18.1	344	16.9	286
114	[57]		333	18.9	309	12.6	299	9.7	314	14	270
115	[57]		335	16.4	344	18.6	304	7.9	328	14.6	280
116	[57]		415	42.9	314	24.5	370	35.9	366	35.2	237
117	[57]		279	13.6	319	24.5	260	7.3	270	10.7	241
118	[57]		233	18.9	355	46.8	215	12.1	268	29.5	189
138	[63]		310	-3.5	375	14.4	315	-1.9	333	3.6	321
254	[85]		420	25.7	407	23.3	405	23	411	24.1	312
255	[85]		380	16.8	447	29.3	367	13.9	398	20.6	316
256	[85]		431	15.8	426	14.8	436	16.7	434	16.4	363
257	[85]		363	4.7	466	25.8	352	1.7	394	12.2	346
379	[99]		370	8.1	435	21.8	330	-3	378	10.1	340

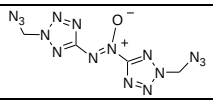
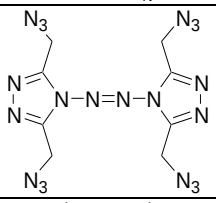
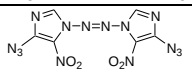
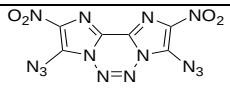
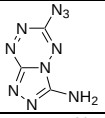
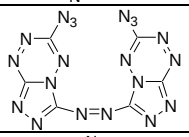
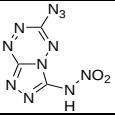
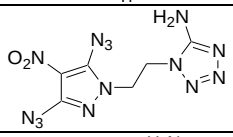
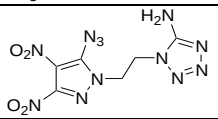
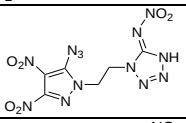
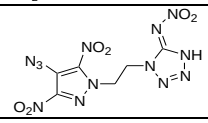
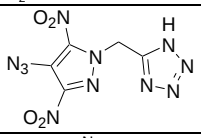
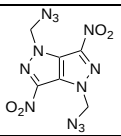
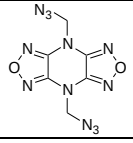
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
380	[99]		357	10.4	435	26.4	321	0.3	371	13.7	320

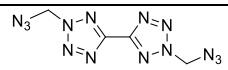
2.3.19 The detonation pressures of azides

Table 70. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the azides.

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
26	[35]		109	27.5	-	-	81	2.5	-	-	79
27	[35]		89	19.1	-	-	68	-5.9	-	-	72
28	[35]		68	8.8	-	-	54	-14.8	-	-	62
46	[24]		63	-15.9	-	-	49	-49	-	-	73
47	[24] [40]		309	26.9	-	-	237	4.6	273	17.2	226
84	[51]		162	27.2	22	-436.4	119	0.8	101	-16.8	118
85	[51]		208	18.3	217	21.7	174	2.3	200	15	170
86	[51]		148	-8.1	66	-142.4	129	-24	114	-40.4	160
87	[51]		196	7.7	195	7.2	178	-1.7	190	4.7	181
88	[51]		141	15.6	135	11.9	120	0.8	132	9.8	119
89	[51]		209	14.8	260	31.5	183	2.7	217	18	178

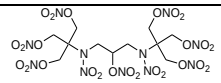
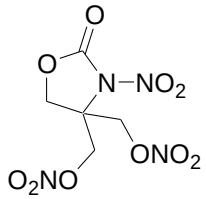
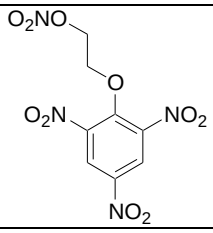
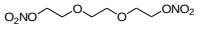
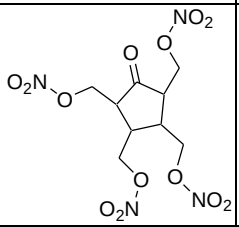
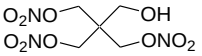
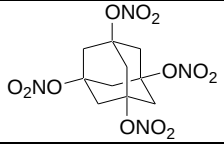
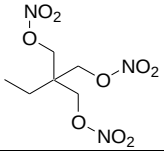
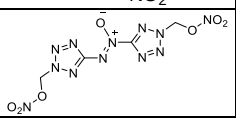
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
118	[57]		233	18.9	355	46.8	215	12.1	268	29.5	189
131	[61]		344	8.4	403	21.8	291	-8.2	346	9	315
145	[40]		271	2.2	-	-	267	0.7	269	1.5	265
146	[40]		313	14.1	-	-	258	-4.3	286	5.9	269
147	[40]		301	12.3	-	-	250.5	-5.4	275.8	4.3	264
148	[40]		274	1.5	-	-	250	-8	262	-3.1	270
154	[65]		386	9.1	415	15.4	333	-5.4	378	7.1	351
155	[65]		386	8.8	415	15.2	333	-5.7	378	6.9	352
172	[68]		342	8.2	418	24.9	285	-10.2	348	9.8	314
179	[69]		344	6.7	402	20.1	299	-7.4	348	7.8	321
180	[69]		292	11.6	386	33.2	251	-2.8	310	16.8	258
181	[69]		299	0.7	391	24	286	-3.8	325	8.6	297
182	[69]		331	2.7	403	20.1	305	-5.6	346	6.9	322
188	[70]		338	8.3	383	19.1	292	-6.2	338	8.3	310
296	[92]		288	9	293	10.6	234	-12	272	3.7	262

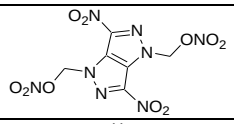
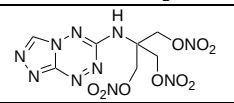
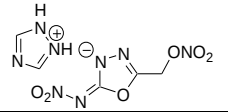
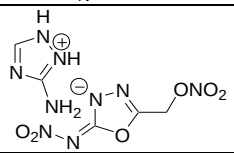
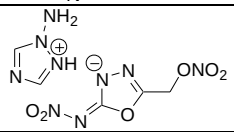
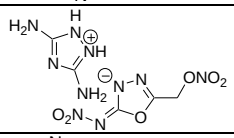
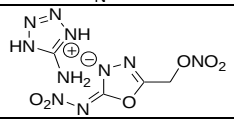
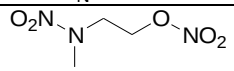
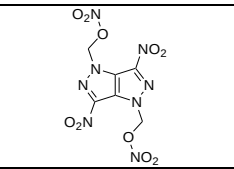
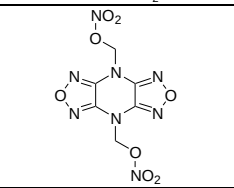
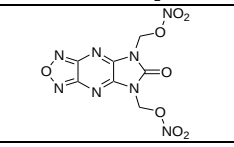
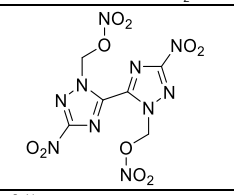
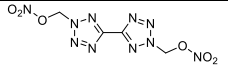
		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
300	[93]		279	36.6	390	54.6	180	1.7	283	37.5	177
317	[95]		231	9.5	-	-	194	-7.7	212	1.4	209
326	[95]		342	8.2	418	24.9	293	-7.2	351	10.5	314
329	[96]		417	12	436	15.8	330	-11.2	394	6.9	367
355	[96]		312	8.7	-	-	260	-9.6	286	0.3	285
356	[96]		381	20.7	-	-	283	-6.7	332	9	302
357	[96]		371	2.2	494	26.5	333	-9	399	9	363
413	[99]		264	12.5	322	28.3	221	-4.5	269	14.1	231
417	[99]		297	11.4	352	25.3	252	-4.4	300	12.3	263
418	[99]		329	0.6	403	18.9	309	-5.8	347	5.8	327
419	[99]		318	0	403	21.1	301	-5.6	341	6.7	318
422	[99]		344	6.7	402	20.1	299	-7.4	348	7.8	321
469	[105]		310	11	371	25.6	263	-4.9	315	12.4	276
470	[105]		289	3.8	319	12.9	238	-16.8	282	1.4	278

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
478	[107]		281	15.7	-	-	230	-3	256	7.4	237

2.3.20 The detonation pressures of nitrate esters

Table 71. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the nitrate ester.

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
34	[36]		383	14.4	326	-0.6	349	6	353	7.1	328
35	[36]		358	12.6	260	-20.4	300	-4.3	306	-2.3	313
41	[38]		282	16	224	-5.8	255	7.1	254	6.7	237
44	[38]		164	12.8	90	-58.9	153	6.5	136	-5.1	143
56	[38]		227	10.6	177	-14.7	216	6	207	1.9	203
60	[38]		241	-5	248	-2	237	-6.8	242	-4.5	253
77	[49]		253	9.5	156	-46.8	234	2.1	214	-7	229
119	[26]		216	9.3	180	-8.9	210	6.7	202	3	196
299	[93]		333	22.5	478	46	275	6.2	362	28.7	258

		Compound	P_{C-J} [kbar] Keshavarz	Deviation Keshavarz [%]	P_{C-J} [kbar] Rothstein and Petersen	Deviation Rothstein and Petersen [%]	P_{C-J} [kbar] Kamlet & Jacobs	Deviation Kamlet & Jacobs [%]	P_{C-J} [kbar] Rose Hybrid	Deviation Rose Hybrid [%]	P_{C-J} [kbar] from reference [kbar]
341	[96]		376	12	364	9.1	327	-1.2	356	7	331
350	[96]		337	12.8	325	9.5	302	2.6	321	8.4	294
371	[98]		314	-1.8	312	-2.5	268	-19.3	298	-7.3	319.8
372	[98]		285	-12.7	324	0.9	325	1.2	311	-3.3	321.2
373	[98]		307	-9.8	339	0.6	338	0.3	328	-2.8	337.1
374	[98]		286	-12.3	348	7.7	279	-15.1	304	-5.7	321.2
375	[98]		305	-19.9	399	8.3	358	-2.2	354	-3.3	365.7
460	[26]		233	-11.2	229	-13.1	236	-9.7	233	-11.2	259
465	[105]		376	12	364	9.1	327	-1.2	356	7	331
466	[105]		373	10.5	341	2.1	321	-4	345	3.2	334
467	[105]		362	24.6	290	5.9	265	-3	306	10.8	273
468	[105]		387	15.5	390	16.2	321	-1.9	366	10.7	327
479	[107]		326	12.3	389	26.5	284	-0.7	333	14.1	286

2.3.21 Summary of the detonation pressures

Table 72. Table summarizing the Mean absoulute percent deviation (MAPE); R^2, and Pearson value of all in RoseBoom Implemented values to predict the detonation pressure.

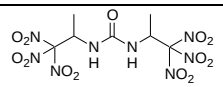
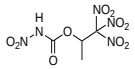
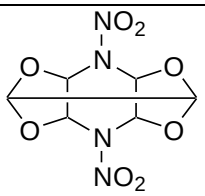
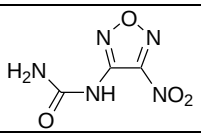
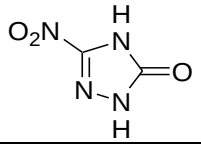
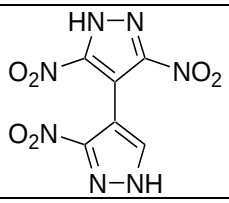
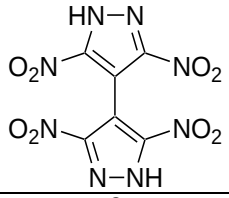
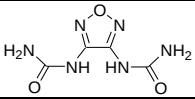
Compound class		MAPE Keshavarz	Pearson Keshavarz	R^2 Keshavarz	MAPE Rothstein and Petersen	Pearson Rothstein and Petersen	R^2 Rothstein and Petersen	MAPE Kamlet and Jacobs	Pearson Kamlet and Jacobs	R^2 Kamlet and Jacobs	MAPE RoseHybrid	Pearson RoseHybrid	R^2 RoseHybrid
All Molecules	476	15	0.82	0.67	39.2	0.78	0.61	8.8	0.91	0.83	11.2	0.9	0.81
Neutral molecules	327	15.5	0.89	0.79	27.3	0.81	0.66	9.2	0.91	0.83	11.7	0.92	0.85
ionic	113	13	0.75	0.56	23.04	0.68	0.46	7.6	0.92	0.85	10	0.83	0.69
Zwitter ionic	3	12.4	0.98	0.96	16.6	0.95	0.9	9.1	0.99996	1	8	0.99	0.98
aromatic	416	15.8	0.83	0.69	24	0.78	0.61	8.4	0.92	0.85	8.6	0.92	0.85
Non aromatic	63	17.4	0.87	0.76	25.8	0.74	0.55	9.9	0.93	0.86	12	0.9	0.81
Cyclic nitramines	15	8.7	0.78	0.61	16.2	0.55	0.3	4.6	0.96	0.92	4.7	0.88	0.77
Acyclic nitamines	112	9.5	0.74	0.55	15.6	0.73	0.53	7.5	0.81	0.66	7.3	0.88	0.77
Molecules with Nitro groups	377	12.11	0.84	0.71	37.1	0.83	0.69	7.2	0.9	0.81	8.4	0.93	0.86
Molecules without Nitro groups	104	16.8	0.84	0.71	46.2	0.65	0.42	13.9	0.94	0.88	23.9	0.84	0.71
Diazoles	137	9.6	0.86	0.74	16.4	0.76	0.58	6.5	0.94	0.88	6.7	0.93	0.86
Triazoles	115	12.3	0.73	0.53	25.1	0.71	0.5	9.8	0.87	0.76	9.8	0.85	0.72
Tetrazoles	133	12.6	0.85	0.72	20.7	0.82	0.67	9	0.94	0.88	8.9	9.2	84.64
Oxazole	96	11.1	0.8	0.64	18.6	0.64	0.41	7.4	0.91	0.83	7.4	0.91	0.83
Ethers and Esters	34	24.7	0.91	0.83	26	0.71	0.5	10	0.94	0.88	12.41	0.89	0.79
Peroxides	10	31.41	0.72	0.52	-	-	-	17.4	0.74	0.55	20	0.98	0.96
Nitroxides	45	11.2	0.82	0.67	27.6	0.6	0.36	9.3	0.92	0.85	10.1	0.81	0.66
Molecules with -	28	14.8	0.65	0.42	17.7	0.65	0.42	9.9	0.76	0.58	14	0.76	0.58

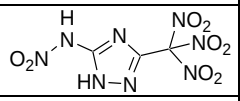
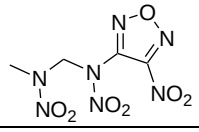
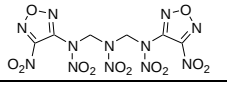
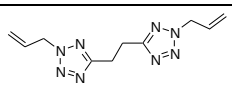
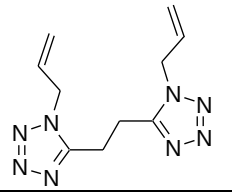
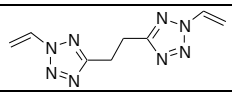
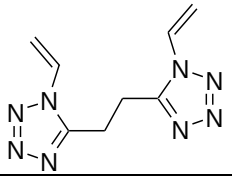
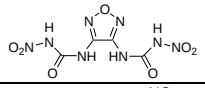
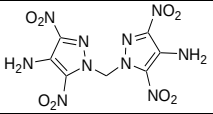
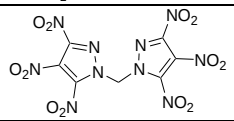
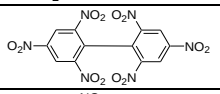
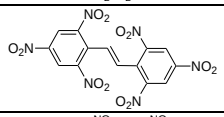
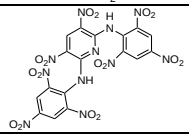
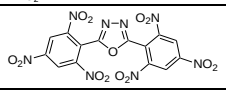
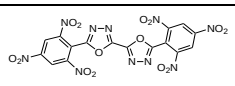
Compound class		MAPE Keshavarz	Pearson Keshavarz	R^2 Keshavarz	MAPE Rothstein and Petersen	Pearson Rothstein and Petersen	R^2 Rothstein and Petersen	MAPE Kamlet and Jacobs	Pearson Kamlet and Jacobs	R^2 Kamlet and Jacobs	MAPE RoseHybrid	Pearson RoseHybrid	R^2 RoseHybrid
$C(NO_2)_3$ Groups													
Azides	41	11.5	0.97	0.94	7.6	0.99	0.98	10.6	0.94	0.88	42	0.86	0.74
Nitrate esters	22	12.7	0.78	0.61	14.3	0.78	0.61	5.2	0.95	0.9	7.3	0.78	0.61

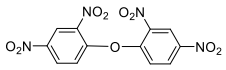
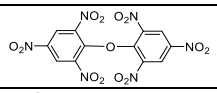
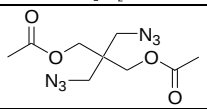
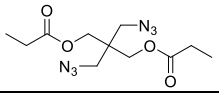
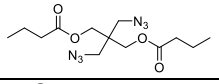
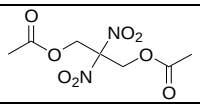
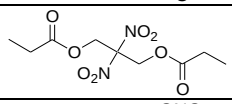
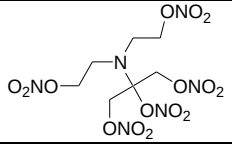
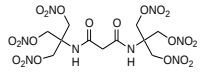
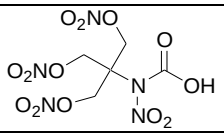
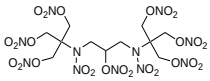
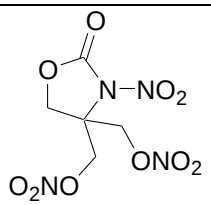
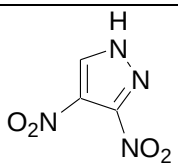
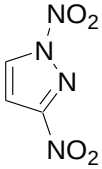
2.4 Comparison of the densities from RoseBoom2.1 to the literature values

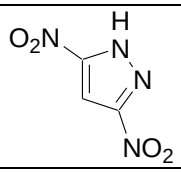
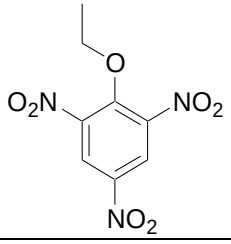
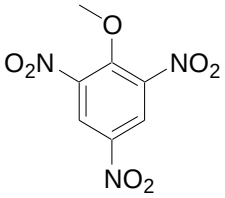
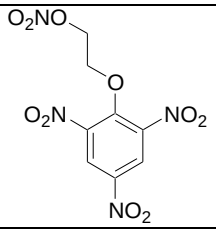
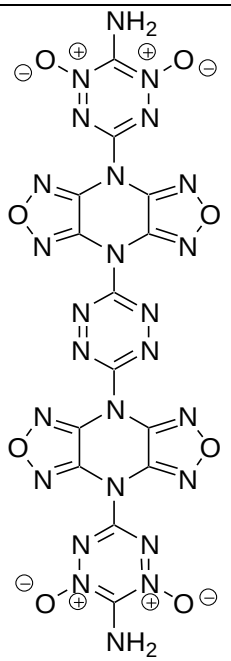
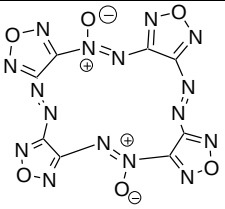
2.4.1 The densities of all compounds

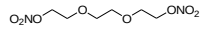
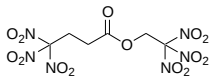
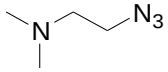
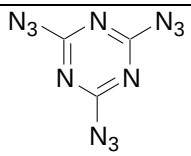
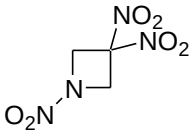
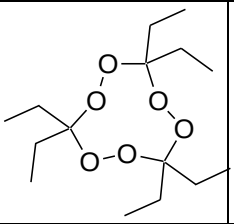
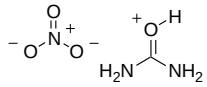
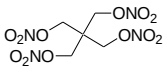
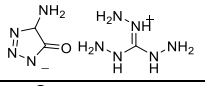
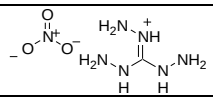
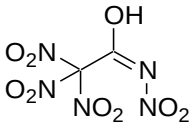
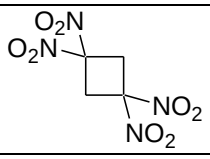
Table 73. Table summarizing the structural formulae, empirical formulae and the densities of all compounds.

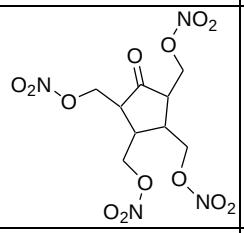
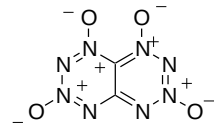
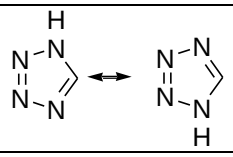
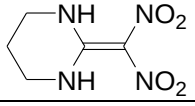
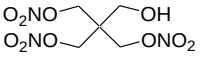
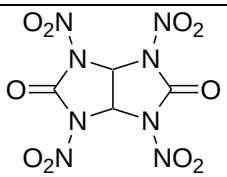
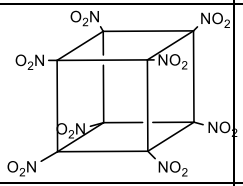
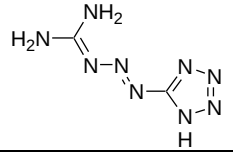
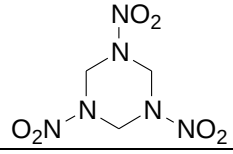
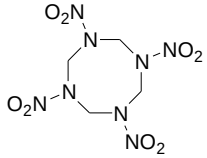
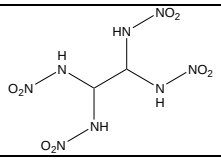
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1	[22]		1.82		-		-	1.697	-7.2	1.712	-6.3	1.704	-6.8
2	[22]		1.58		-		-	1.747	9.6	1.792	11.8	1.77	10.7
3	[23] [24]		1.985		-		-	1.769	-12.2	2.007	1.1	1.888	-5.1
4	[25]		1.68		-		-	1.862	9.8	1.811	7.2	1.837	8.5
5	[23] [26]		1.916		-		-	1.9	-0.8	1.882	-1.8	1.891	-1.3
6	[27]		1.855		-		-	1.897	2.2	1.854	-0.1	1.876	1.1
7	[27]		1.82		-		-	1.94	6.2	1.927	5.6	1.933	5.8
8	[25]		1.95		-		-	1.742	-11.9	1.697	-14.9	1.72	-13.4

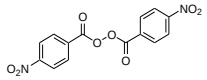
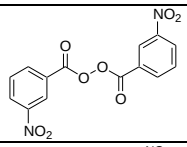
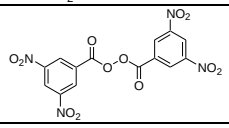
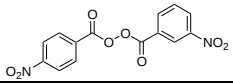
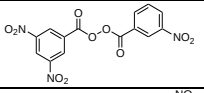
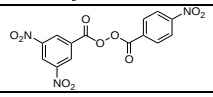
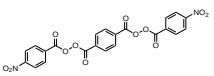
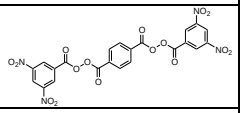
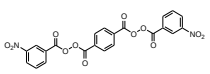
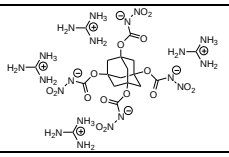
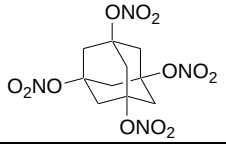
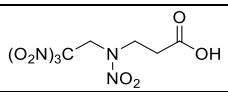
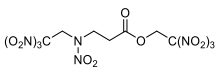
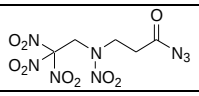
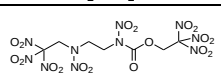
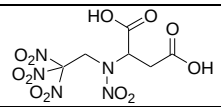
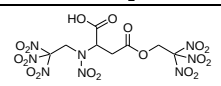
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
9	[28]		1.91		-		-	2.064	7.5	1.957	2.4	2.01	5
10	[29]		1.74		-		-	1.921	9.4	1.767	1.5	1.844	5.6
11	[29]		1.9		-		-	1.932	1.7	1.884	-0.8	1.908	0.4
12	[30]		1.2		-		-		-	1.255	4.4	-	-
13	[30]		1.2		-		-		-	1.255	4.4	-	-
14	[30]		1.4		-		-		-	1.324	-5.7	-	-
15	[30]		1.4		-		-		-	1.324	-5.7	-	-
16	[25]		1.87		-		-	1.892	1.2	1.875	0.3	1.883	0.7
17	[31]		1.802		-		-	1.858	3	1.838	2	1.848	2.5
18	[31]		1.934		-		-	1.941	0.4	1.933	-0.1	1.937	0.2
19	[32] [26]		1.694		-		-	1.797	5.7	1.776	4.6	1.786	5.2
20	[32]		1.74		-		-	1.749	0.5	1.704	-2.1	1.727	-0.8
21	[32]		1.757		-		-	1.813	3.1	1.776	1.1	1.794	2.1
22	[32] [33]		1.77		-		-	1.831	3.3	1.779	0.5	1.805	1.9
23	[32]		1.837		-		-	1.857	1.1	1.781	-3.1	1.819	-1

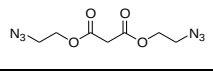
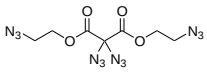
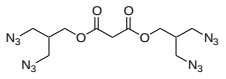
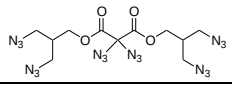
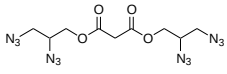
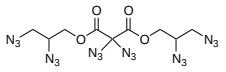
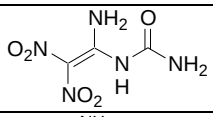
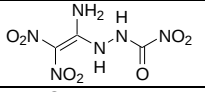
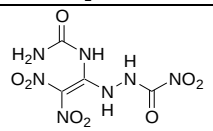
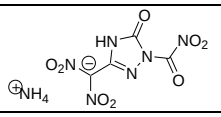
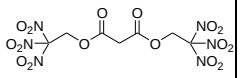
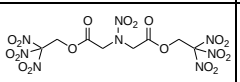
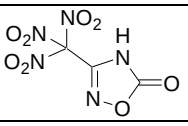
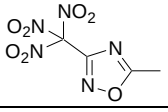
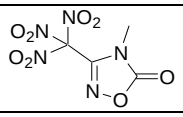
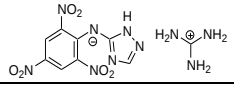
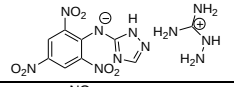
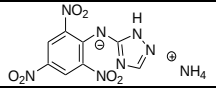
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24	[34]		1.689		-		-	1.606	-5.2	1.667	-1.3	1.637	-3.2
25	[34]		1.7		-		-	1.71	0.6	1.792	5.1	1.746	2.6
26	[35]		1.21		-	1.226	1.3	1.443	16.1	1.28	5.5		#DIV/0!
27	[35]		1.16		-	1.171	0.9	1.335	13.1	1.23	5.7	1.316	11.9
28	[35]		1.09		-	1.123	2.9	1.245	12.4	1.192	8.6	1.251	12.9
29	[35]		1.33		-		-	1.423	6.5	1.478	10	1.347	1.3
30	[35]		1.22		-		-	1.309	6.8	1.386	12	1.348	9.5
31	[36]		1.69		-		-	1.602	-5.5	1.632	-3.6	1.617	-4.5
32	[36]		1.67		-		-	1.606	-4	1.632	-2.3	1.619	-3.2
33	[36]		1.73		-		-	1.788	3.2	1.775	2.5	1.781	2.9
34	[36]		1.8		-		-	1.71	-5.3	1.726	-4.3	1.718	-4.8
35	[36]		1.84		-		-	1.775	-3.7	1.78	-3.4	1.777	-3.5
36	[37]		1.79		-		-	1.874	4.5	1.849	3.2	1.861	3.8
37	[37]		1.76		-		-	1.874	6.1	1.842	4.5	1.858	5.3

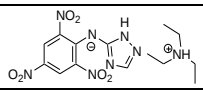
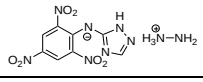
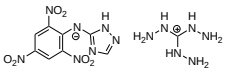
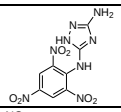
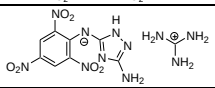
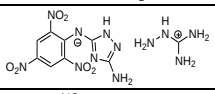
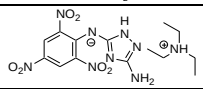
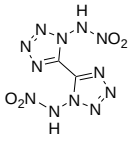
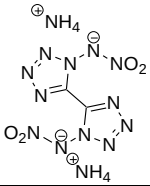
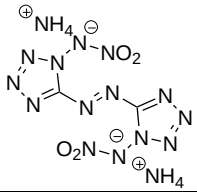
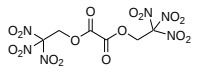
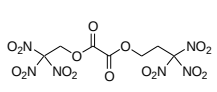
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38	[37]		**1.78**		-		-	**1.874**	**5**	**1.849**	**3.7**	**1.861**	4.4
39	[26]		**1.554**		-		-	**1.59**	**2.3**	**1.59**	**2.3**	**1.59**	2.3
40	[38]		**1.7**		-		-	**1.665**	**-2.1**	**1.665**	**-2.1**	**1.665**	-2.1
41	[38]		**1.723**		-		-	**1.684**	**-2.3**	**1.707**	**-0.9**	**1.696**	-1.6
42	[38]		**1.903**		-		-		-	**1.893**	**-0.5**	-	-
43	[38] [39]		**1.761**		-		-		-	**1.786**	**1.4**	-	-

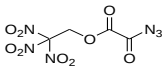
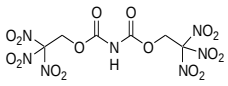
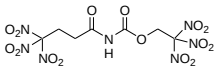
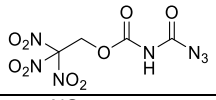
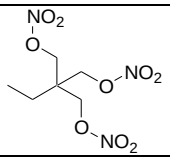
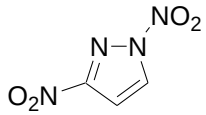
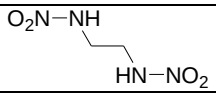
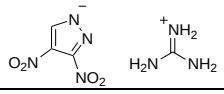
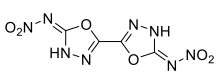
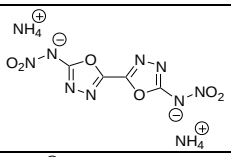
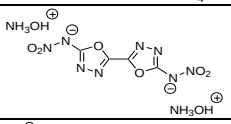
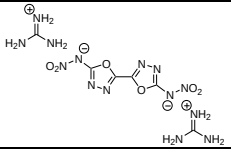
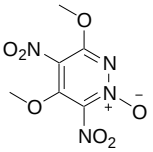
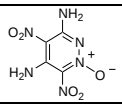
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
44	[38]		1.344		-		-	1.273	-5.6	1.452	7.4	1.362	1.3
45	[38]		1.78		-		-	1.748	-1.8	1.78	0	1.764	-0.9
46	[24]		0.933		-	1.14	18.2		-	1.109	15.9	1.124	17
47	[24] [40]		1.73		-		-		-	1.563	-10.7	-	-
48	[41]		1.841		-		-	1.935	4.9	1.823	-1	1.879	2
49	[42]		1.25		-		-		-	1.124	-11.2	-	-
50	[43]		1.655	1.729	4.3		-		-	1.709	3.2	1.719	3.7
51	[44]		1.76		-		-	1.768	0.5	1.706	-3.2	1.737	-1.3
52	[45]		1.569	1.463	-7.2		-		-	1.555	-0.9	1.509	-4
53	[38]		1.509	1.59	5.1		-		-	1.714	12	1.652	8.7
54	[38]		1.87		-		-	2.017	7.3	1.937	3.5	1.977	5.4
55	[38]		1.83		-		-	1.837	0.4	1.819	-0.6	1.828	-0.1

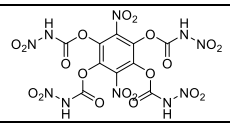
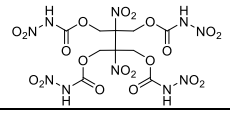
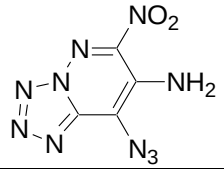
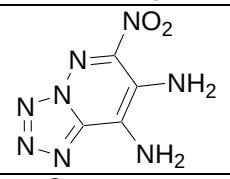
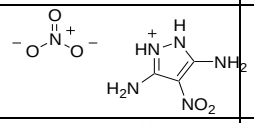
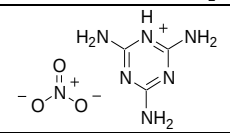
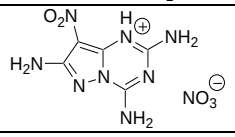
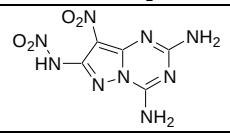
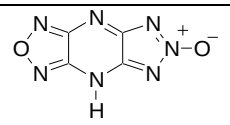
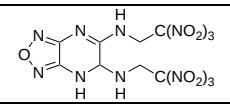
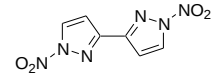
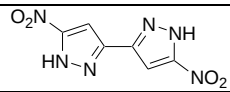
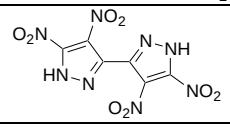
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
56	[38]		1.55		-		-	1.486	-4.3	1.622	4.4	1.554	0.3
57	[46]		1.96		-		-		-	2.063	5	-	-
58	[38]		1.529		-		-		-	1.582	3.4	-	-
59	[47]		1.65		-		-	1.618	-2	1.567	-5.3	1.593	-3.6
60	[38]		1.54		-		-	1.622	5.1	1.642	6.2	1.632	5.6
61	[38]		2.04		-		-	2.035	-0.2	2.065	1.2	2.05	0.5
62	[38]		1.979		-		-	2.013	1.7	2.202	10.1	2.107	6.1
63	[38]		1.64		-		-		-	1.538	-6.6	1.768	7.2
64	[26]		1.806		-		-	1.843	2	1.797	-0.5	1.82	0.8
65	[38]		1.903		-		-	1.843	-3.3	1.782	-6.8	1.812	-5
66	[38]		1.87		-		-	1.819	-2.8	1.889	1	1.854	-0.9

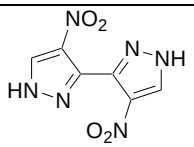
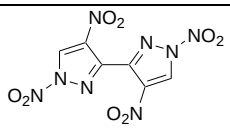
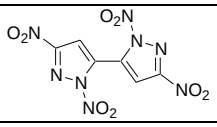
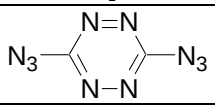
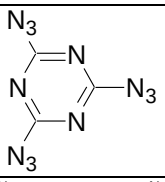
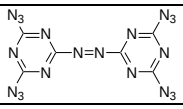
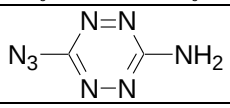
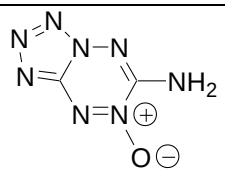
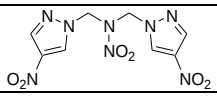
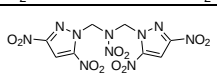
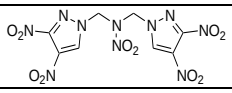
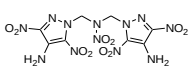
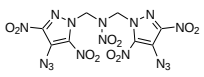
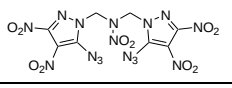
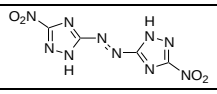
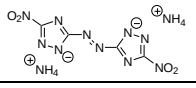
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
67	[48]		1.61		-		-	1.566	-2.8	1.547	-4.1	1.556	-3.5
68	[48]		1.608		-		-	1.566	-2.7	1.547	-3.9	1.556	-3.3
69	[48]		1.718		-		-	1.701	-1	1.686	-1.9	1.694	-1.4
70	[48]		1.67		-		-	1.566	-6.6	1.547	-8	1.556	-7.3
71	[48]		1.7		-		-	1.642	-3.5	1.622	-4.8	1.632	-4.2
72	[48]		1.69		-		-	1.642	-2.9	1.622	-4.2	1.632	-3.6
73	[48]		1.46		-		-	1.545	5.5	1.532	4.7	1.538	5.1
74	[48]		1.51		-		-	1.646	8.3	1.631	7.4	1.639	7.9
75	[48]		1.45		-		-	1.545	6.1	1.532	5.4	1.538	5.7
76	[49]		1.54	1.551	0.7		-		-	1.561	1.3	1.556	1
77	[49]		1.659		-		-	1.534	-8.1	1.705	2.7	1.619	-2.5
78	[50]		1.72		-		-	1.778	3.3	1.711	-0.5	1.744	1.4
79	[50]		1.73		-		-	1.747	1	1.773	2.4	1.76	1.7
80	[50]		1.7		-	1.685	-0.9		-	1.651	-3	1.687	-0.8
81	[50]		1.89		-		-	1.786	-5.8	1.816	-4.1	1.762	-7.3
82	[50]		1.66		-		-	1.787	7.1	1.738	4.5	1.762	5.8
83	[50]		1.65		-		-	1.847	10.7	1.787	7.7	1.817	9.2

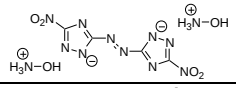
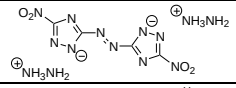
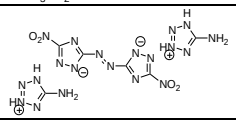
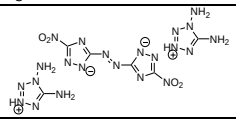
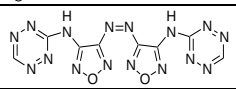
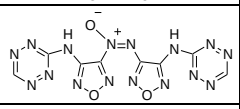
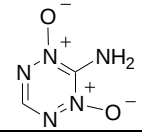
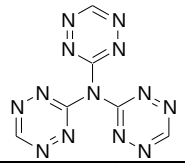
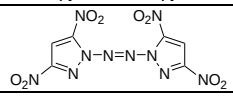
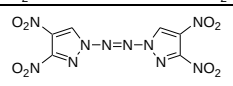
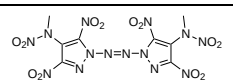
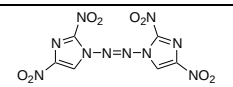
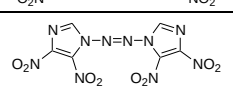
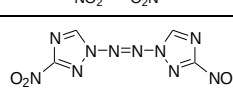
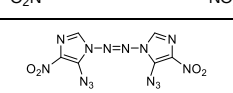
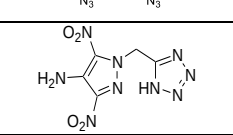
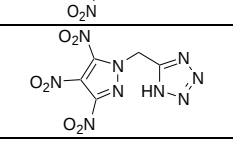
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
84	[51]		1.38		-	1.292	-6.8		-	1.348	-2.4	1.32	-4.5
85	[51]		1.49		-	1.41	-5.7		-	1.437	-3.7	1.423	-4.7
86	[51]		1.38		-	1.323	-4.3		-	1.318	-4.7	1.321	-4.5
87	[51]		1.51		-	1.413	-6.9		-	1.382	-9.3	1.397	-8.1
88	[51]		1.3		-	1.361	4.5		-	1.37	5.1	1.365	4.8
89	[51]		1.5		-	1.446	-3.7		-	1.433	-4.7	1.44	-4.2
90	[52]		1.86		-		-	1.744	-6.7	1.77	-5.1	1.757	-5.9
91	[52]		1.79		-		-	1.831	2.2	1.862	3.9	1.847	3.1
92	[52]		1.7		-		-	1.818	6.5	1.841	7.7	1.829	7.1
93	[52]		1.82	1.82	0		-		-	1.827	0.4	1.824	0.2
94	[53]		1.76		-		-	1.748	-0.7	1.789	1.6	1.768	0.5
95	[53]		1.78		-		-	1.748	-1.8	1.781	0.1	1.764	-0.9
96	[54]		1.95		-		-	1.92	-1.6	1.972	1.1	1.946	-0.2
97	[54]		1.84		-		-	1.834	-0.3	1.784	-3.1	1.809	-1.7
98	[54]		1.8		-		-	1.829	1.6	1.833	1.8	1.831	1.7
99	[55]		1.666	1.657	-0.5		-		-	1.652	-0.8	1.655	-0.7
100	[55]		1.8	1.648	-9.2		-		-	1.66	-8.4	1.654	-8.8
101	[55]		1.84	1.682	-9.4		-		-	1.651	-11.4	1.667	-10.4

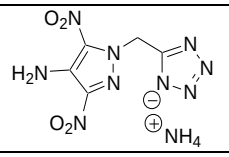
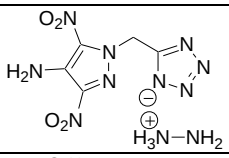
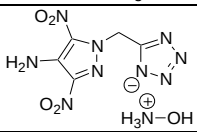
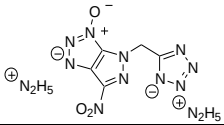
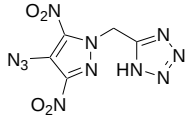
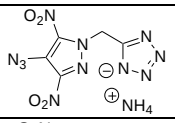
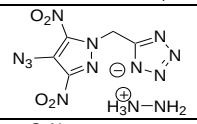
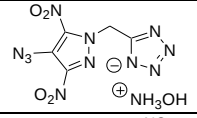
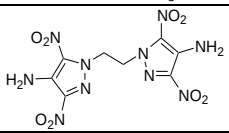
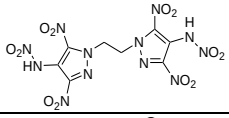
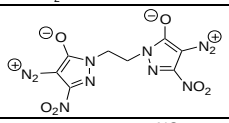
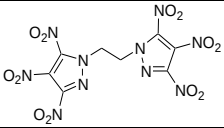
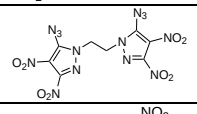
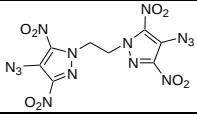
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
102	[55]		1.53	1.474	-3.8		-		-	1.384	-10.5	1.429	-7.1
103	[55]		1.62	1.672	3.1		-		-	1.659	2.4	1.665	2.7
104	[55]		1.59	1.634	2.7		-		-	1.673	5	1.653	3.8
105	[55]		1.85		-		-	1.989	7	1.746	-6	1.868	1
106	[55]		1.59	1.648	3.5		-		-	1.667	4.6	1.657	4
107	[55]		1.66	1.641	-1.2		-		-	1.674	0.8	1.657	-0.2
108	[55]		1.5	1.473	-1.8		-		-	1.402	-7	1.438	-4.3
109	[56]		1.93		-		-	2.134	9.6	1.921	-0.5	2.027	4.8
110	[56]		1.795	1.724	-4.1		-		-	1.705	-5.3	1.715	-4.7
111	[56]		1.842	1.766	-4.3		-		-	1.751	-5.2	1.758	-4.8
112	[56]		1.753	1.736	-1		-		-	1.675	-4.7	1.706	-2.8
113	[57]		1.84		-		-	1.797	-2.4	1.851	0.6	1.824	-0.9
114	[57]		1.73		-		-	1.748	1	1.789	3.3	1.769	2.2

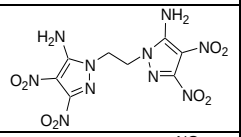
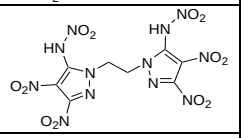
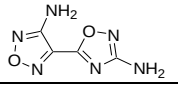
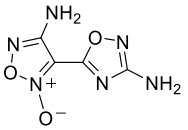
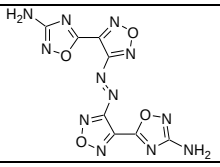
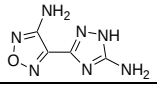
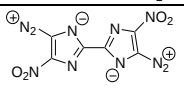
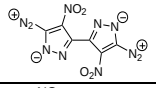
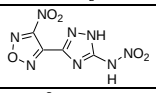
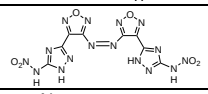
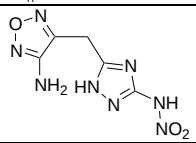
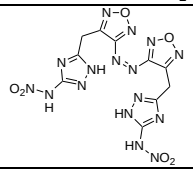
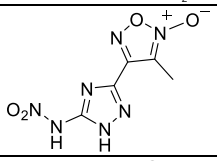
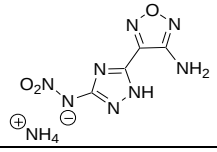
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115	[57]		1.75		-	1.858	5.8		-	1.782	1.8	1.82	3.8
116	[57]		1.92		-		-	1.795	-7	1.851	-3.7	1.823	-5.3
117	[57]		1.63		-		-	1.748	6.8	1.776	8.2	1.762	7.5
118	[57]		1.5		-	1.878	20.1		-	1.785	16	1.831	18.1
119	[26]		1.5		-		-	1.445	-3.8	1.527	1.8	1.529	1.9
120	[37]		1.76		-		-	1.874	6.1	1.842	4.5	1.858	5.3
121	[26]		1.75		-		-	1.608	-8.8	1.646	-6.3	1.627	-7.6
122	[37]		1.63	1.669	2.3		-		-	1.68	3	1.675	2.7
123	[58]		1.98		-		-	1.981	0.1	1.849	-7.1	1.915	-3.4
124	[58]		1.95	1.728	-12.8		-		-	1.693	-15.2	1.711	-14
125	[58]		1.92	1.77	-8.5		-		-	1.725	-11.3	1.748	-9.8
126	[58]		1.79	1.67	-7.2		-		-	1.686	-6.2	1.678	-6.7
127	[59]		1.59		-		-	1.764	9.9	1.659	4.2	1.712	7.1
128	[59]		1.84		-		-	2.116	13	1.841	0.1	1.978	7

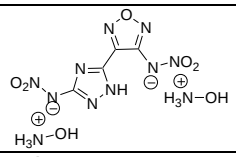
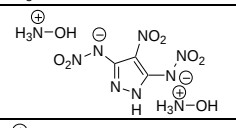
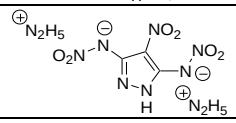
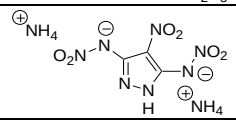
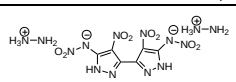
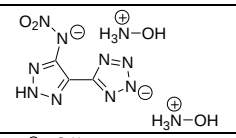
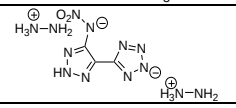
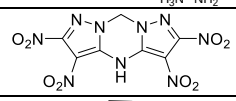
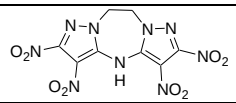
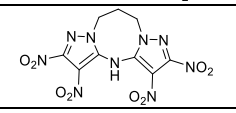
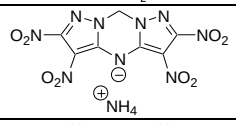
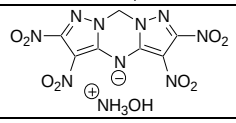
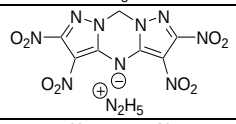
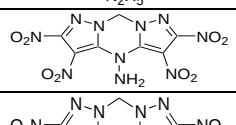
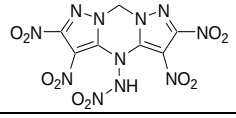
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
129	[60]		1.71		-		-	1.852	7.7	1.924	11.1	1.888	9.4
130	[60]		1.89		-		-	1.713	-10.3	1.764	-7.1	1.739	-8.7
131	[61]		1.82		-	1.39	-30.9	2.107	13.6	1.749	-4.1	1.57	-15.9
132	[61]		1.8		-		-	1.948	7.6	1.766	-1.9	1.857	3.1
133	[62]		1.76	1.732	-1.6		-		-	1.852	5	1.792	1.8
134	[62]		1.65	1.639	-0.7		-		-	1.684	2	1.661	0.7
135	[62]		1.82	1.817	-0.2		-		-	1.816	-0.2	1.817	-0.2
136	[62]		1.89		-		-		-	1.825	-3.6	-	-
137	[63]		1.85		-		-		-	1.87	1.1	-	-
138	[63]		1.8		-		-	1.83	1.6	1.806	0.3	1.818	1
139	[64]		1.81		-		-	1.836	1.4	1.751	-3.4	1.794	-0.9
140	[64]		1.81		-		-	1.836	1.4	1.759	-2.9	1.797	-0.7
141	[64]		1.84		-		-	1.94	5.2	1.927	4.5	1.933	4.8

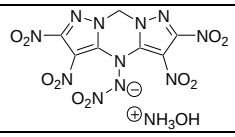
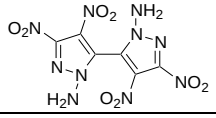
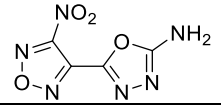
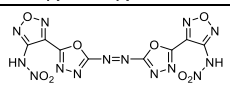
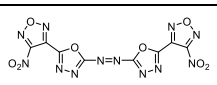
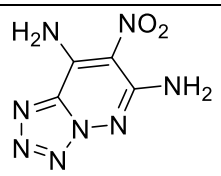
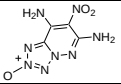
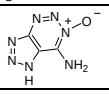
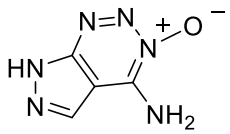
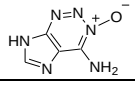
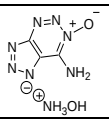
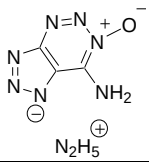
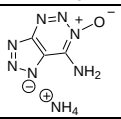
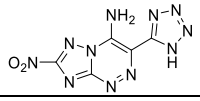
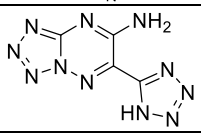
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
142	[64]		1.83		-		-	1.836	0.3	1.759	-4	1.797	-1.8
143	[64]		1.85		-		-	1.94	4.6	1.92	3.6	1.98	6.6
144	[64]		1.855		-		-	1.94	4.4	1.92	3.4	1.98	6.3
145	[40]		1.62		-	1.28	-26.6		-	1.566	-3.4	1.423	-13.8
146	[40]		1.74		-		-		-	1.563	-11.3	-	-
147	[40]		1.67		-		-		-	1.481	-12.8	-	-
148	[40]		1.68		-		-		-	1.554	-8.1	-	-
149	[40]		1.874		-		-		-	1.839	-1.9	-	-
150	[65]		1.69		-		-	1.745	3.2	1.663	-1.6	1.704	0.8
151	[65]		1.789	1.78	-0.5		-	1.847	3.1	1.801	0.7	1.824	1.9
152	[65]		1.78		-		-	1.847	3.6	1.801	1.2	1.824	2.4
153	[65]		1.86		-		-	1.839	-1.1	1.82	-2.2	1.829	-1.7
154	[65]		1.83		-	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6
155	[65]		1.83		-	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6
156	[66]		1.88		-		-	2.062	8.8	1.795	-4.7	1.928	2.5
157	[66]		1.76	1.693	-4		-		-	1.614	-9	1.654	-6.4

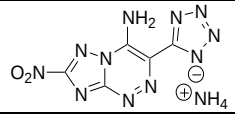
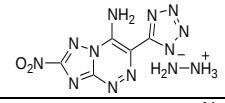
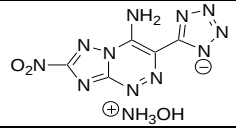
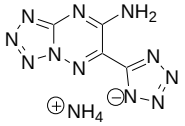
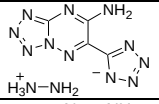
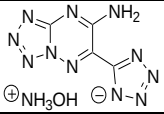
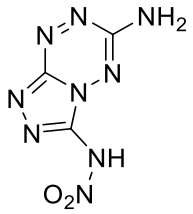
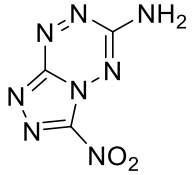
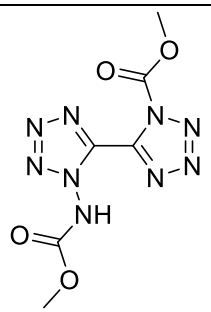
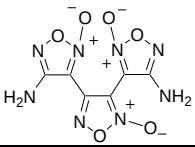
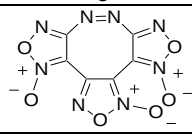
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
158	[66]		1.82	1.739	-4.7		-		-	1.664	-9.4	1.702	-6.9
159	[66]		1.8	1.671	-7.7		-		-	1.634	-10.2	1.652	-9
160	[66]		1.71	1.724	0.8		-		-	1.736	1.5	1.73	1.2
161	[66]		1.79	1.706	-4.9		-		-	1.744	-2.6	1.725	-3.8
162	[67]		1.67		-		-		-	1.609	-3.8	-	-
163	[67]		1.75		-		-		-	1.657	-5.6	-	-
164	[67]		1.77		-		-		-	1.786	0.9	-	-
165	[67]		1.73		-		-		-	1.517	-14	-	-
166	[68]**4**		1.81		-		-	1.983	8.7	1.852	2.3	1.917	5.6
167	[68]**5**		1.82		-		-	1.983	8.2	1.852	1.7	1.917	5.1
168	[68]**6**		1.8		-		-	1.911	5.8	1.816	0.9	1.864	3.4
169	[68]**7**		1.85		-		-	1.983	6.7	1.852	0.1	1.917	3.5
170	[68]**8**		1.83		-		-	1.983	7.7	1.852	1.2	1.917	4.5
171	[68]		1.8		-		-	2.062	12.7	1.77	-1.7	1.916	6.1
172	[68]		1.77		-	1.47	-20.4		-	1.712	-3.4	1.591	-11.3
173	[69]		1.83		-		-	2.08	12	1.753	-4.4	1.917	4.5
174	[69]		1.86		-		-	1.958	5	1.824	-2	1.891	1.6

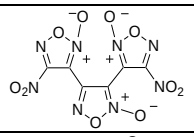
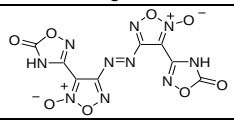
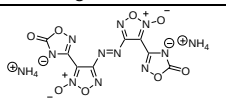
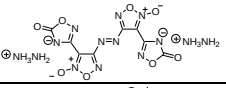
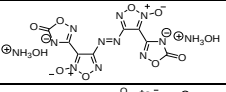
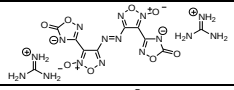
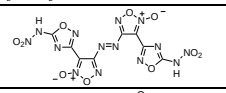
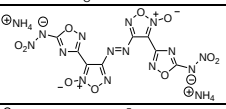
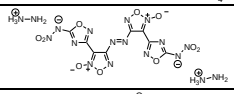
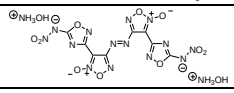
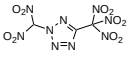
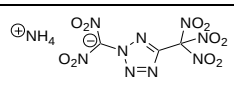
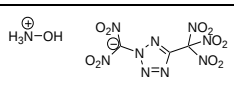
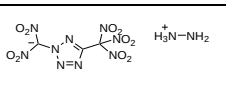
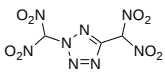
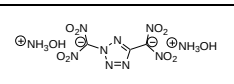
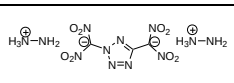
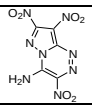
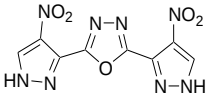
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
175	[69]		1.68	1.669	-0.7		-		-	1.659	-1.3	1.664	-1
176	[69]		1.65	1.812	8.9		-		-	1.668	1.1	1.74	5.2
177	[69]		1.75	1.695	-3.2		-		-	1.685	-3.9	1.69	-3.6
178	[69]		1.69	1.604	-5.4		-		-	1.658	-1.9	1.631	-3.6
179	[69]		1.812		-	1.473	-23	2.031	10.8	1.741	-4.1	1.607	-12.8
180	[69]		1.64	1.725	4.9		-		-	1.657	1	1.691	3
181	[69]		1.72	1.712	-0.5		-		-	1.665	-3.3	1.688	-1.9
182	[69]		1.76	1.746	-0.8		-		-	1.659	-6.1	1.703	-3.3
183	[70]		1.77		-		-	1.799	1.6	1.768	-0.1	1.784	0.8
184	[70]		1.84		-		-	1.877	2	1.862	1.2	1.869	1.6
185	[70]		1.72	1.765	2.5		-	1.926	10.7	1.724	0.2	1.805	4.7
186	[70]		1.84		-		-	1.887	2.5	1.863	1.2	1.875	1.9
187	[70]		1.78		-	1.543	-15.4	1.983	10.2	1.75	-1.7	1.647	-8.1
188	[70]		1.76		-	1.543	-14.1	1.983	11.2	1.75	-0.6	1.647	-6.9

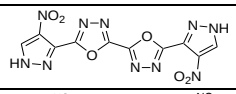
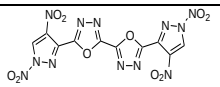
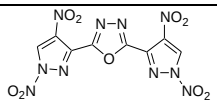
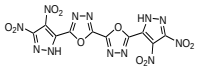
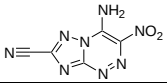
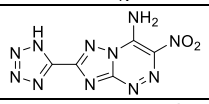
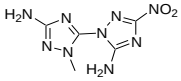
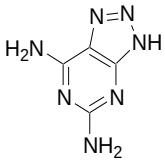
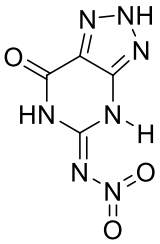
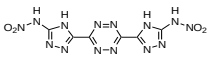
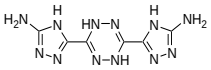
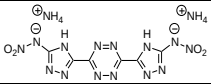
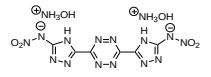
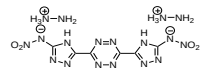
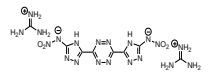
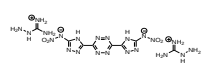
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
189	[70]		1.75		-		-	1.799	2.7	1.768	1	1.784	1.9
190	[70]		1.83		-		-	1.877	2.5	1.862	1.7	1.869	2.1
191	[71]		1.68		-		-		-	1.716	2.1	-	-
192	[71]		1.788		-		-		-	1.819	1.7	-	-
193	[71]		1.652		-		-		-	1.716	3.7	-	-
194	[71]		1.716		-		-		-	1.685	-1.8	-	-
195	[72]		1.83	1.829	-0.1		-	2.112	13.4	1.757	-4.2	1.899	3.6
196	[72]		1.85	1.829	-1.1		-	2.112	12.4	1.757	-5.3	1.899	2.6
197	[73]		1.851		-		-	1.996	7.3	1.881	1.6	1.938	4.5
198	[73]		1.873		-		-	2.033	7.9	1.799	-4.1	1.916	2.2
199	[73]		1.695		-		-	1.832	7.5	1.692	-0.2	1.762	3.8
200	[73]		1.704		-		-	1.924	11.4	1.692	-0.7	1.808	5.8
201	[73]		1.741		-		-	1.932	9.9	1.75	0.5	1.841	5.4
202	[73]		1.68	1.658	-1.3		-		-	1.679	-0.1	1.668	-0.7

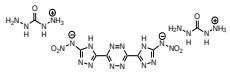
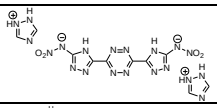
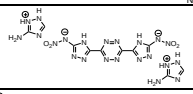
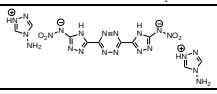
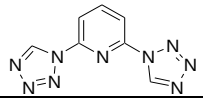
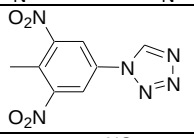
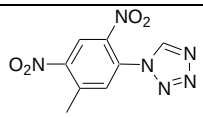
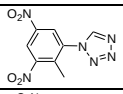
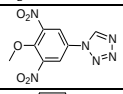
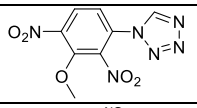
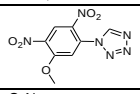
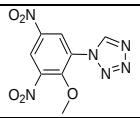
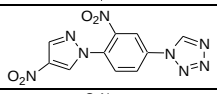
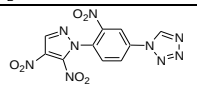
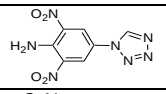
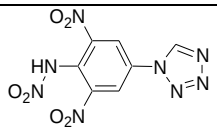
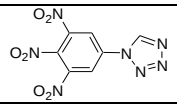
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
203	[73]		1.85	1.736	-6.6		-		-	1.723	-7.4	1.73	-6.9
204	[74]		1.9	1.757	-8.1		-		-	1.757	-8.1	1.757	-8.1
205	[74]		1.87	1.684	-11		-		-	1.721	-8.7	1.703	-9.8
206	[74]		1.8	1.71	-5.3		-		-	1.707	-5.4	1.708	-5.4
207	[74]		1.85	1.707	-8.4		-		-	1.757	-5.3	1.732	-6.8
208	[74]		1.82	1.672	-8.9		-		-	1.644	-10.7	1.658	-9.8
209	[74]		1.71	1.588	-7.7		-		-	1.608	-6.3	1.598	-7
210	[75]		1.895		-		-	2.014	5.9	1.932	1.9	1.973	4
211	[75]		1.8		-		-	1.949	7.6	1.847	2.5	1.898	5.2
212	[75]		1.76		-		-	1.89	6.9	1.775	0.8	1.833	4
213	[75]		1.82	1.775	-2.5		-		-	1.836	0.9	1.805	-0.8
214	[75]		1.86	1.791	-3.9		-		-	1.853	-0.4	1.822	-2.1
215	[75]		1.83	1.762	-3.9		-		-	1.791	-2.2	1.776	-3
216	[75]		1.79		-		-	2.005	10.7	1.929	7.2	1.967	9
217	[75]		1.937		-		-	2.037	4.9	1.972	1.8	2.005	3.4

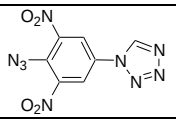
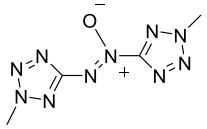
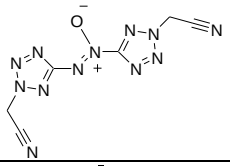
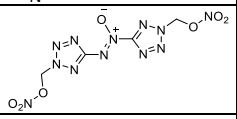
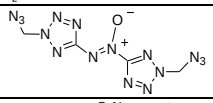
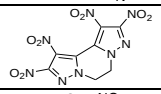
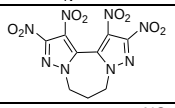
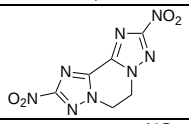
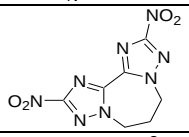
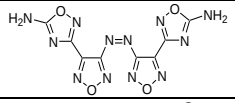
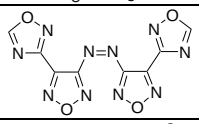
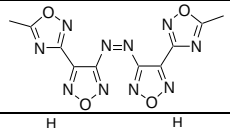
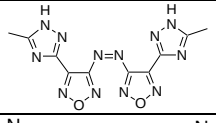
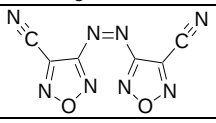
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
218	[75]		1.87	1.821	-2.7		-		-	1.897	1.4	1.859	-0.6
219	[76]		1.76		-		-	1.922	8.4	1.921	8.4	1.922	8.4
220	[77]		1.747		-		-	1.95	10.4	1.823	4.2	1.976	11.6
221	[77]		1.767		-		-	2.033	13.1	1.826	3.2	1.929	8.4
222	[77]		1.825		-		-	2.056	11.2	1.824	-0.1	1.94	5.9
223	[78]		1.869		-		-	1.948	4.1	1.766	-5.8	1.857	-0.6
224	[78]		1.886		-		-	2.033	7.2	1.856	-1.6	1.945	3
225	[79]		1.815		-		-		-	1.789	-1.5	-	-
226	[79]		1.772		-		-		-	1.721	-3	-	-
227	[79]		1.743		-		-		-	1.721	-1.3	-	-
228	[79]		1.772	1.643	-7.9		-		-	1.677	-5.7	-	-
229	[79]		1.8	1.584	-13.6		-		-	1.515	-18.8	1.55	-16.1
230	[79]		1.74	1.595	-9.1		-		-	1.635	-6.4	1.615	-7.7
231	[80]		1.873		-		-	2.067	9.4	1.776	-5.5	1.921	2.5
232	[80]		1.795		-		-		-	1.714	-4.7	-	-

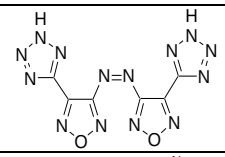
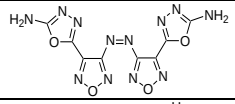
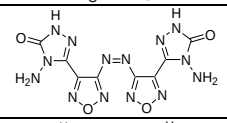
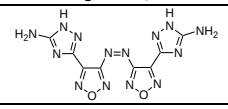
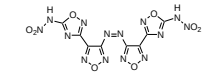
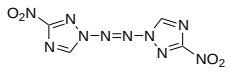
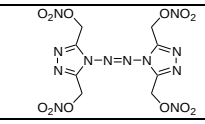
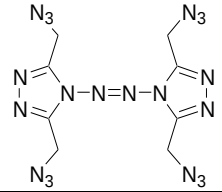
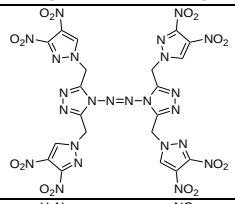
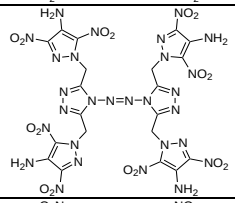
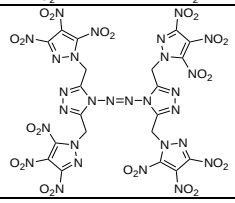
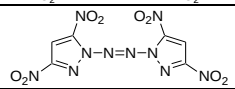
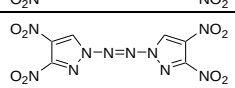
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
233	[80]		1.811	1.674	-8.2		-		-	1.676	-8.1	1.675	-8.1
234	[80]		1.855	1.662	-11.6		-		-	1.685	-10.1	1.673	-10.9
235	[80]		1.859	1.701	-9.3		-		-	1.678	-10.8	1.69	-10
236	[80]		1.725	1.615	-6.8		-		-	1.608	-7.3	1.611	-7.1
237	[80]		1.742	1.605	-8.5		-		-	1.622	-7.4	1.614	-7.9
238	[80]		1.751	1.651	-6.1		-		-	1.614	-8.5	1.633	-7.2
239	[81]		1.79		-		-	2.05	12.7	1.804	0.8	1.927	7.1
240	[81]		1.83		-		-	1.769	-3.4	1.8	-1.7	1.784	-2.6
241	[82]		1.64		-		-		-	1.59	-3.1	-	-
242	[83]		1.787		-		-		-	1.953	8.5	-	-
243	[83]		1.895		-		-		-	2.017	6	2.076	8.7

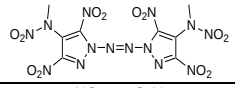
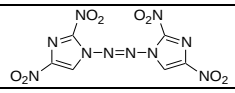
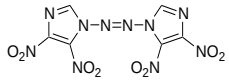
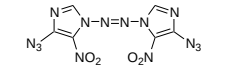
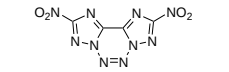
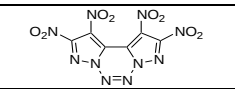
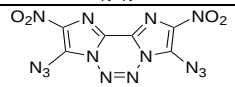
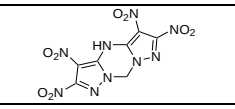
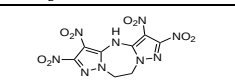
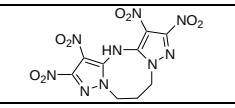
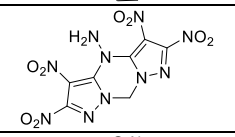
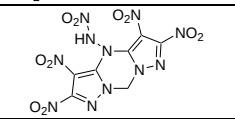
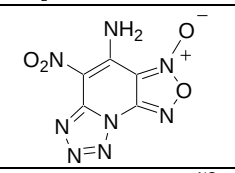
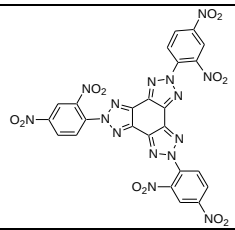
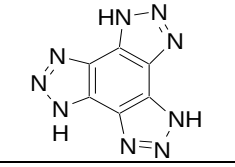
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
244	[83]		1.914		-		-		-	2.062	7.2	-	-
245	[84]		1.9		-		-		-	1.925	1.3	-	-
246	[84]		1.65	1.743	5.3		-		-	1.762	6.4	1.752	5.8
247	[84]		1.71	1.723	0.8		-		-	1.768	3.3	1.746	2.1
248	[84]		1.72	1.773	3		-		-	1.794	4.1	1.784	3.6
249	[84]		1.65	1.695	2.7		-		-	1.744	5.4	1.72	4.1
250	[84]		1.92		-		-	2.112	9.1	2.013	4.6	2.062	6.9
251	[84]		1.66	1.782	6.8		-		-	1.778	6.6	1.78	6.7
252	[84]		1.74	1.763	1.3		-		-	1.782	2.4	1.772	1.8
253	[84]		1.72	1.805	4.7		-		-	1.804	4.7	1.804	4.7
254	[85]		1.88		-		-	1.997	5.9	1.95	3.6	1.974	4.8
255	[85]		1.79	1.884	5		-		-	1.896	5.6	1.89	5.3
256	[85]		1.92	1.896	-1.3		-		-	1.912	-0.4	1.896	-1.3
257	[85]		1.81	1.866	3		-		-	1.904	4.9	1.895	4.5
258	[85]		1.92	1.964	2.2		-		-	1.881	-2.1	1.922	0.1
259	[85]		1.91	1.814	-5.3		-		-	1.82	-4.9	1.817	-5.1
260	[85]		1.83	1.751	-4.5		-		-	1.787	-2.4	1.769	-3.4
261	[86]		1.9		-		-	1.971	3.6	1.897	-0.2	1.934	1.8
262	[87]		1.8		-		-	1.884	4.5	1.768	-1.8	1.826	1.4

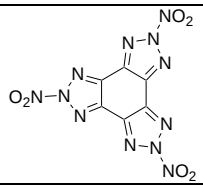
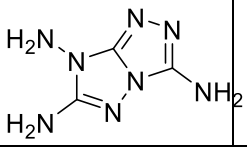
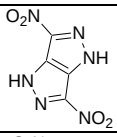
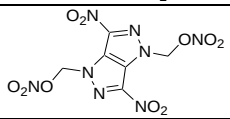
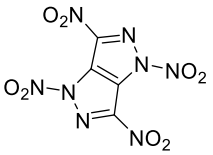
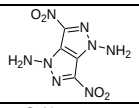
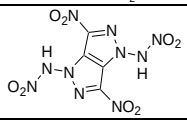
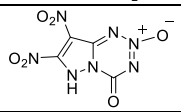
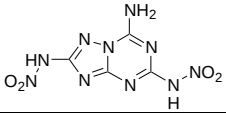
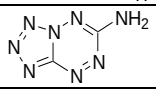
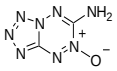
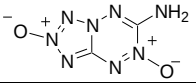
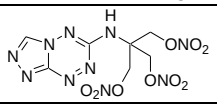
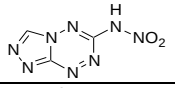
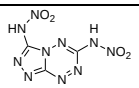
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
263	[87]		1.809		-		-	1.914	5.5	1.773	-2	1.843	1.8
264	[87]		1.831		-		-	1.972	7.2	1.903	3.8	1.976	7.3
265	[87]		1.844		-		-	1.959	5.9	1.897	2.8	1.92	4
266	[87]		1.87		-		-	1.972	5.2	1.885	0.8	1.929	3.1
267	[88]		1.753		-		-	2.056	14.7	1.729	-1.4	1.893	7.4
268	[88]		1.819		-		-	2.067	12	1.776	-2.4	1.921	5.3
269	[89]		1.83		-		-	1.831	0.1	1.657	-10.4	1.744	-4.9
270	[90]		1.67		-		-	1.873	10.8	1.638	-2	1.756	4.9
271	[90]		1.94		-		-	1.949	0.5	1.856	-4.5	1.903	-1.9
272	[91]		1.88		-		-	2.044	8	1.781	-5.6	1.913	1.7
273	[91]		1.84		-		-		-	1.659	-10.9	-	-
274	[91]		1.79	1.674	-6.9		-		-	1.64	-9.1	1.657	-8
275	[91]		1.81	1.711	-5.8		-		-	1.645	-10	1.678	-7.9
276	[91]		1.78	1.657	-7.4		-		-	1.654	-7.6	1.655	-7.6
277	[91]		1.84	1.636	-12.5		-		-	1.644	-11.9	1.64	-12.2
278	[91]		1.79	1.624	-10.2		-		-	1.656	-8.1	1.64	-9.1

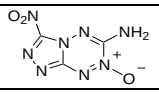
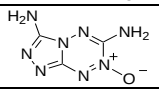
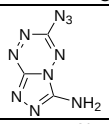
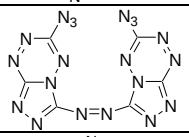
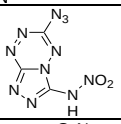
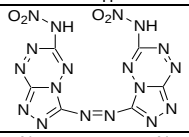
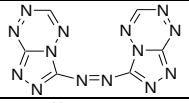
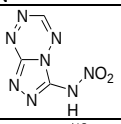
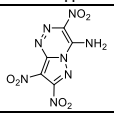
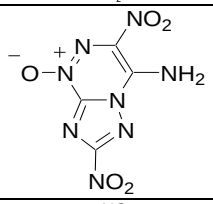
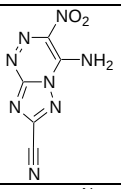
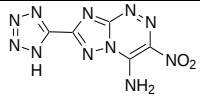
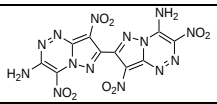
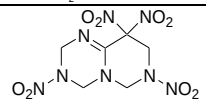
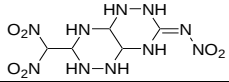
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
279	[91]		1.82	1.657	-9.8		-		-	1.678	-8.5	1.667	-9.2
280	[91]		1.85	1.677	-10.3		-		-	1.676	-10.4	1.676	-10.4
281	[91]		1.84	1.664	-10.6		-		-	1.697	-8.4	1.68	-9.5
282	[91]		1.85	1.664	-11.2		-		-	1.686	-9.7	1.675	-10.4
283	[92]		1.59		-		-		-	1.518	-4.7	1.724	7.8
284	[92]		1.66		-		-		-	1.577	-5.3	1.661	0.1
285	[92]		1.63		-		-	1.745	6.6	1.577	-3.4	1.661	1.9
286	[92]		1.62		-		-	1.745	7.2	1.577	-2.7	1.661	2.5
287	[92]		1.7		-		-	1.746	2.6	1.608	-5.7	1.677	-1.4
288	[92]		1.62		-		-	1.746	7.2	1.608	-0.7	1.677	3.4
289	[92]		1.65		-		-	1.746	5.5	1.608	-2.6	1.677	1.6
290	[92]		1.66		-		-	1.746	4.9	1.608	-3.2	1.677	1
291	[92]		1.64		-		-	1.812	9.5	1.627	-0.8	1.72	4.7
292	[92]		1.68		-		-	1.862	9.8	1.705	1.5	1.784	5.8
293	[92]		1.69		-		-	1.825	7.4	1.675	-0.9	1.75	3.4
294	[92]		1.76		-		-	1.882	6.5	1.755	-0.3	1.818	3.2
295	[92]		1.83		-		-	1.89	3.2	1.75	-4.6	1.82	-0.5

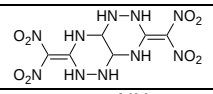
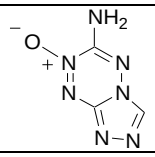
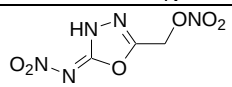
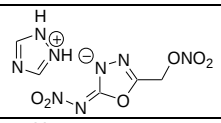
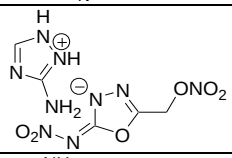
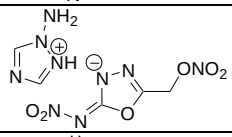
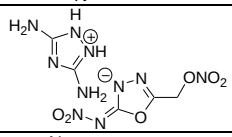
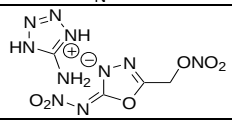
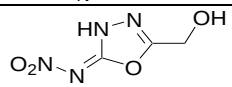
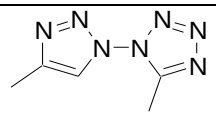
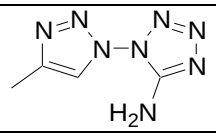
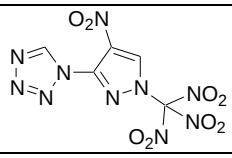
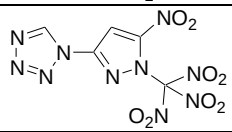
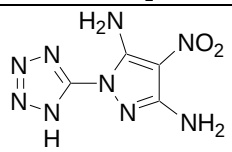
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
296	[92]		1.7		-	1.361	-24.9	1.964	13.4	1.671	-1.7	1.665	-2.1
297	[93]		1.57		-		-		-	1.534	-2.3	-	-
298	[93]		1.58		-		-		-	1.554	-1.7	-	-
299	[93]		1.68		-		-	1.937	13.3	1.756	4.3	1.847	9
300	[93]		1.59		-	1.4	-13.6		-	1.597	0.4	1.498	-6.1
301	[94]		1.762		-		-	1.866	5.6	1.847	4.6	1.857	5.1
302	[94]		1.677		-		-	1.803	7	1.772	5.4	1.788	6.2
303	[94]		1.733		-		-	1.905	9	1.763	1.7	1.834	5.5
304	[94]		1.634		-		-	1.82	10.2	1.677	2.6	1.748	6.5
305	[95]		1.85		-		-		-	1.716	-7.8	-	-
306	[95]		1.68		-		-		-	1.684	0.2	-	-
307	[95]		1.75		-		-		-	1.567	-11.7	-	-
308	[95]		1.81		-		-		-	1.54	-17.5	-	-
309	[95]		1.62		-		-		-	1.613	-0.4	-	-

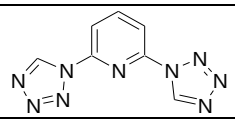
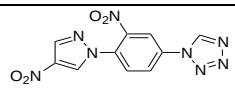
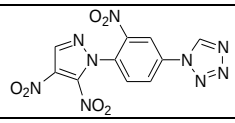
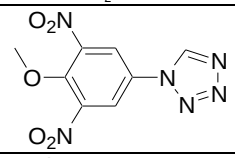
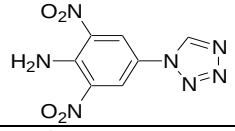
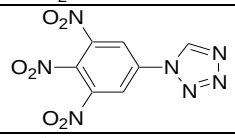
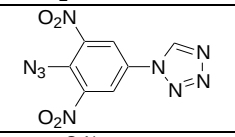
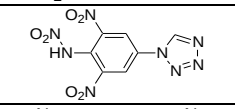
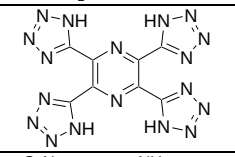
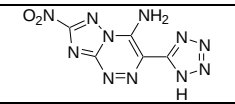
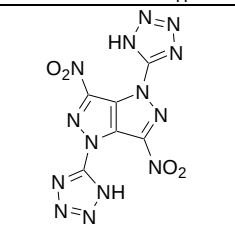
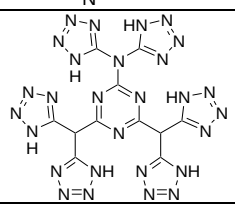
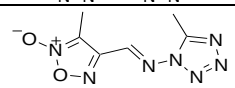
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
310	[95]		1.69		-		-		-	1.715	1.5	-	-
311	[95]		1.83		-		-		-	1.716	-6.6	-	-
312	[95]		1.68		-		-		-	1.79	6.1	-	-
313	[95]		1.79		-		-		-	1.685	-6.2	-	-
314	[95]		2.12		-		-	2.033	-4.3	1.826	-16.1	1.929	-9.9
315	[95]		1.8		-		-	2.062	12.7	1.77	-1.7	1.916	6.1
316	[95]		1.7		-		-	1.833	7.3	1.687	-0.8	1.76	3.4
317	[95]		1.53		-	1.36	-12.5		-	1.462	-4.7	1.411	-8.4
318	[95]		1.74		-		-	1.889	7.9	1.742	0.1	1.816	4.2
319	[95]		1.75		-		-	1.879	6.9	1.763	0.7	1.821	3.9
320	[95]		1.82		-		-	1.944	6.4	1.843	1.2	1.893	3.9
321	[95]		1.81		-		-	1.983	8.7	1.852	2.3	1.917	5.6
322	[95]		1.82		-		-	1.983	8.2	1.852	1.7	1.917	5.1

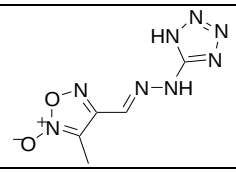
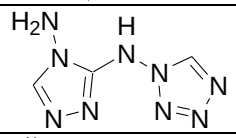
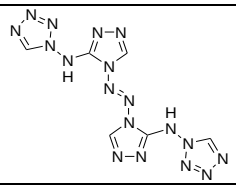
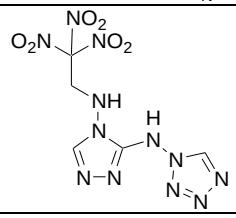
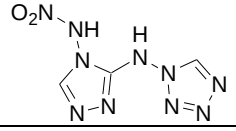
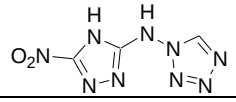
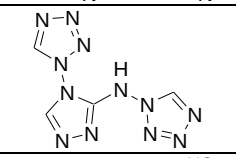
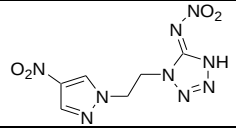
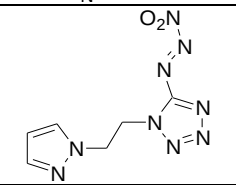
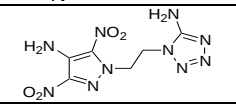
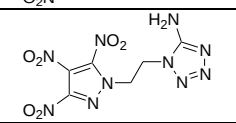
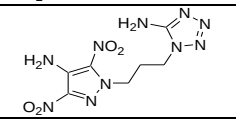
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
323	[95]		1.8		-		-	1.911	5.8	1.816	0.9	1.864	3.4
324	[95]		1.85		-		-	1.983	6.7	1.852	0.1	1.917	3.5
325	[95]		1.83		-		-	1.983	7.7	1.852	1.2	1.917	4.5
326	[95]		1.77		-	1.47	-20.4	2.107	16	1.712	-3.4	1.591	-11.3
327	[96]		1.91		-		-	2.146	11	1.949	2	2.047	6.7
328	[96]		1.89		-		-	2.044	7.5	1.994	5.2	2.019	6.4
329	[96]		1.89		-	1.47	-28.6	2.171	12.9	1.835	-3	1.652	-14.4
330	[96]		1.9		-		-	2.014	5.7	1.932	1.7	1.973	3.7
331	[96]		1.8		-		-	1.949	7.6	1.847	2.5	1.898	5.2
332	[96]		1.76		-		-	1.89	6.9	1.775	0.8	1.833	4
333	[96]		1.79		-		-	2.005	10.7	1.929	7.2	1.967	9
334	[96]		1.94		-		-	2.037	4.8	1.972	1.6	2.005	3.2
335	[96]		1.92		-		-	1.939	1	1.944	1.2	2.03	5.4
336	[96]		1.69		-		-	1.834	7.9	1.719	1.7	1.776	4.8
337	[96]		1.77		-		-		-	1.811	2.3	-	-

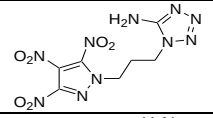
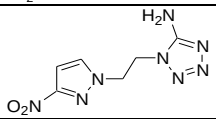
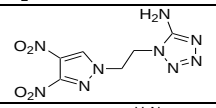
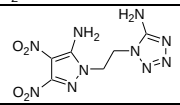
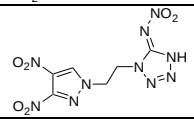
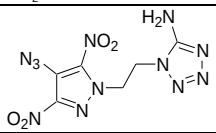
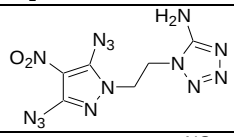
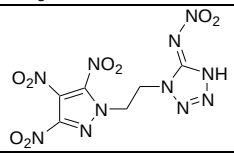
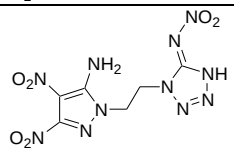
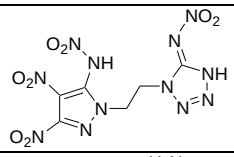
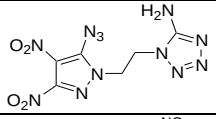
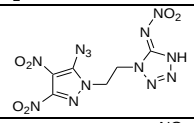
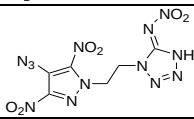
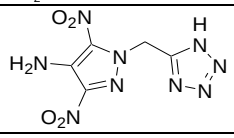
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
338	[96]		1.82		-		-		-	2.033	10.5	2.119	14.1
339	[96]		1.73		-		-		-	1.774	2.5	-	-
340	[96]		1.85		-		-	1.95	5.1	1.942	4.7	1.946	4.9
341	[96]		1.82		-		-	1.863	2.3	1.856	1.9	1.86	2.2
342	[96]		1.95		-		-	2.127	8.3	2.085	6.5	2.106	7.4
343	[96]		1.84		-		-	1.921	4.2	1.93	4.7	1.925	4.4
344	[96]		1.93		-		-	2	3.5	2.042	5.5	2.021	4.5
345	[96]		2.02		-		-	2.095	3.6	2.024	0.2	2.059	1.9
346	[96]		1.84		-		-	1.98	7.1	1.856	0.9	1.918	4.1
347	[96]		1.68		-		-		-	1.714	2	-	-
348	[96]		1.87		-		-		-	1.839	-1.7	-	-
349	[96]		1.93		-		-		-	1.955	1.3	-	-
350	[96]		1.79		-		-	1.799	0.5	1.7	-5.3	1.749	-2.3
351	[96]		1.76		-		-	2.076	15.2	1.782	1.2	1.929	8.8
352	[96]		1.91		-		-	2.078	8.1	1.89	-1.1	1.984	3.7

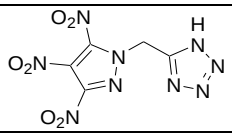
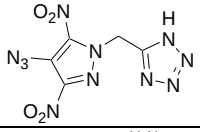
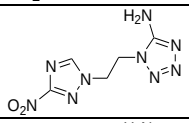
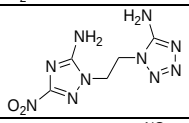
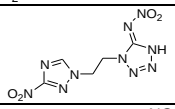
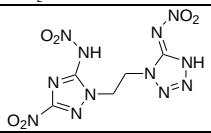
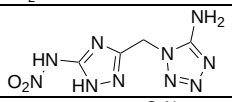
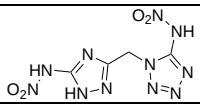
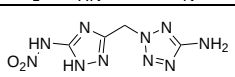
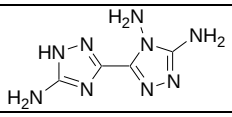
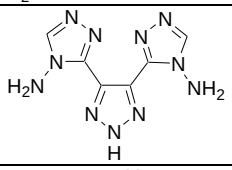
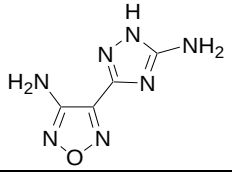
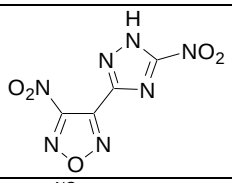
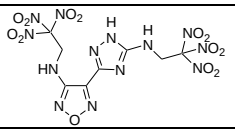
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
353	[96]		1.86		-		-	2.327	20.1	1.898	2	2.112	11.9
354	[96]		1.82		-		-		-	1.794	-1.4	1.937	6
355	[96]		1.74		-	1.27	-37		-	1.674	-3.9	1.472	-18.2
356	[96]		1.77		-	1.37	-29.2		-	1.674	-5.7	1.522	-16.3
357	[96]		1.85		-	1.456	-27.1	2.196	15.8	1.782	-3.8	1.619	-14.3
358	[96]		1.85		-		-	2.158	14.3	1.805	-2.5	1.982	6.7
359	[96]		1.91		-		-		-	1.644	-16.2	-	-
360	[96]		1.81		-		-	2.076	12.8	1.782	-1.6	1.929	6.2
361	[96]		1.95		-		-	1.971	1.1	1.897	-2.8	1.934	-0.8
362	[96]		1.9		-		-	1.937	1.9	2.095	9.3	2.016	5.8
363	[96]		1.81		-		-	2.056	12	1.729	-4.7	1.893	4.4
364	[96]		1.82		-		-	2.067	11.9	1.776	-2.5	1.921	5.3
365	[96]		1.85		-		-	1.971	6.1	1.859	0.5	1.915	3.4
366	[96]		1.86		-		-	1.933	3.8	1.748	-6.4	1.841	-1
367	[96]		1.73		-		-	1.832	5.6	1.791	3.4	1.812	4.5

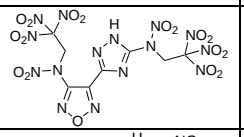
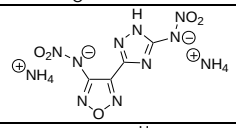
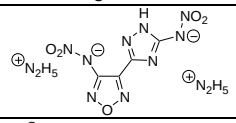
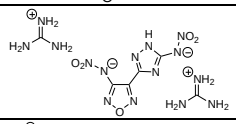
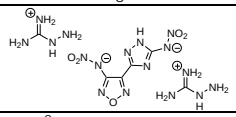
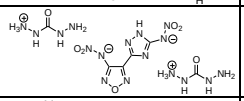
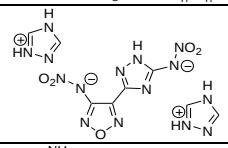
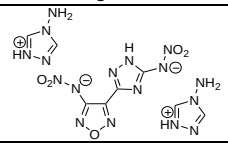
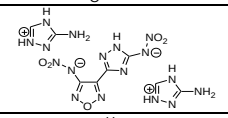
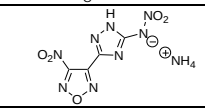
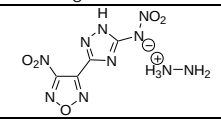
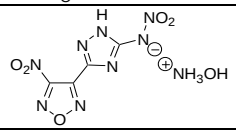
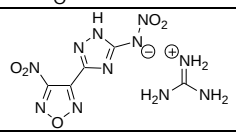
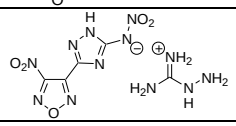
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
368	[96]		1.85		-		-	1.892	2.2	1.876	1.4	1.884	1.8
369	[97]		1.7		-		-		-	1.768	3.8	1.937	12.2
370	[98]		1.875		-		-	1.794	-4.5	1.796	-4.4	1.795	-4.5
371	[98]		1.772	1.748	-1.4		-		-	1.721	-3	1.735	-2.1
372	[98]		1.78	1.733	-2.7		-		-	1.717	-3.7	1.725	-3.2
373	[98]		1.802	1.733	-4		-		-	1.707	-5.6	1.72	-4.8
374	[98]		1.814	1.719	-5.5		-		-	1.733	-4.7	1.726	-5.1
375	[98]		1.796	1.768	-1.6		-		-	1.709	-5.1	1.739	-3.3
376	[98]		1.811		-		-	1.943	6.8	1.678	-7.9	1.81	-0.1
377	[99]		1.47		-		-		-	1.414	-4	-	-
378	[99]		1.52		-		-		-	1.536	1	-	-
379	[99]		1.79		-		-	1.991	10.1	1.886	5.1	1.938	7.6
380	[99]		1.76		-		-	1.991	11.6	1.886	6.7	1.938	9.2
381	[99]		1.76		-		-	1.933	8.9	1.772	0.7	1.853	5

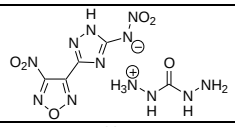
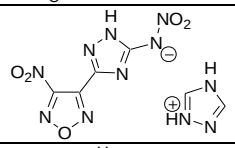
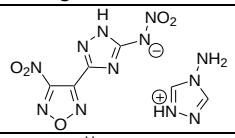
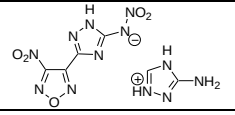
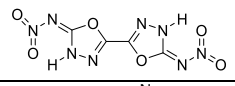
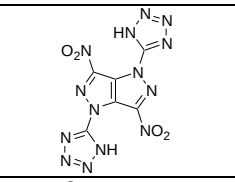
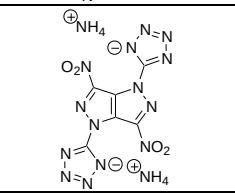
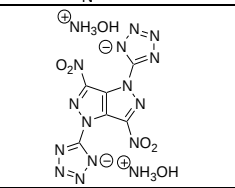
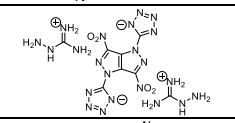
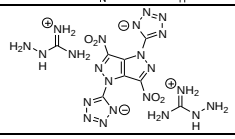
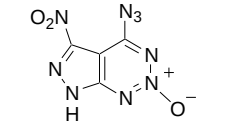
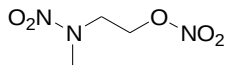
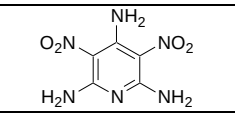
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
382	[99]		1.59		-		-		-	1.518	-4.7	1.724	7.8
383	[99]		1.64		-		-	1.812	9.5	1.627	-0.8	1.72	4.7
384	[99]		1.68		-		-	1.862	9.8	1.705	1.5	1.784	5.8
385	[99]		1.7		-		-	1.746	2.6	1.608	-5.7	1.677	-1.4
386	[99]		1.69		-		-	1.825	7.4	1.675	-0.9	1.75	3.4
387	[99]		1.83		-		-	1.89	3.2	1.75	-4.6	1.82	-0.5
388	[99]		1.7		-	1.361	-24.9	1.964	13.4	1.671	-1.7	1.516	-12.1
389	[99]		1.76		-		-	1.882	6.5	1.755	-0.3	1.755	-0.3
390	[99]		1.95		-		-		-	1.681	-16	-	-
391	[99]		1.87		-		-	2.067	9.5	1.776	-5.3	1.921	2.7
392	[99]		1.79		-		-	2.107	15	1.893	5.4	2	10.5
393	[99]		1.88		-		-		-	1.664	-13	-	-
394	[99]		1.531		-		-		-	1.49	-2.8	-	-

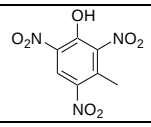
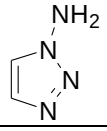
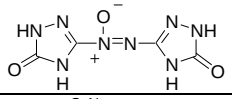
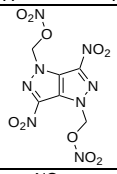
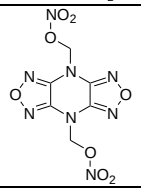
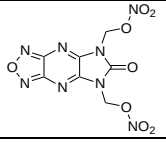
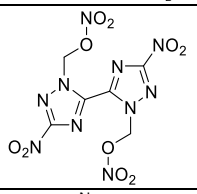
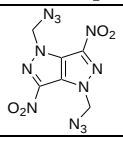
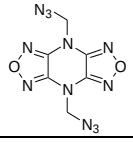
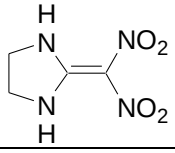
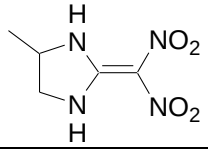
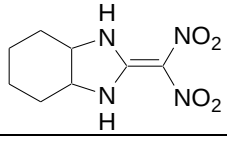
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
395	[99]		1.62		-		-		-	1.595	-1.6	-	-
396	[99]		1.65		-		-		-	1.662	0.7	-	-
397	[99]		1.68		-		-		-	1.661	-1.1	-	-
398	[99]		1.77		-		-	1.927	8.1	1.772	0.1	1.849	4.3
399	[99]		1.78		-		-	2.027	12.2	1.777	-0.2	1.902	6.4
400	[99]		1.74		-		-	2.05	15.1	1.787	2.6	1.918	9.3
401	[99]		1.71		-		-		-	1.683	-1.6	-	-
402	[99]		1.65		-		-	1.818	9.2	1.649	-0.1	1.734	4.8
403	[99]		1.5		-		-	1.827	17.9	1.509	0.6	1.668	10.1
404	[99]		1.67		-		-	1.992	16.2	1.678	0.5	1.835	9
405	[99]		1.71		-		-	1.873	8.7	1.745	2	1.809	5.5
406	[99]		1.65		-		-	1.92	14.1	1.611	-2.4	1.765	6.5

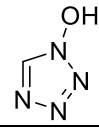
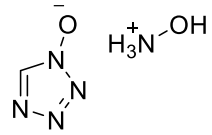
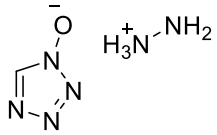
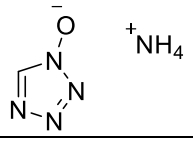
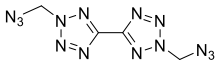
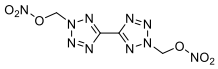
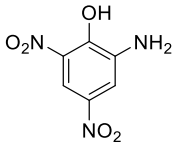
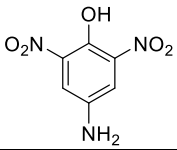
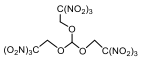
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
407	[99]		1.67		-		-	1.805	7.5	1.676	0.4	1.74	4
408	[99]		1.53		-		-	1.92	20.3	1.552	1.4	1.736	11.9
409	[99]		1.59		-		-	1.818	12.5	1.659	4.2	1.739	8.6
410	[99]		1.68		-		-	1.992	15.7	1.678	-0.1	1.835	8.4
411	[99]		1.69		-		-	1.873	9.8	1.735	2.6	1.804	6.3
412	[99]		1.7		-	1.443	-17.8	1.938	12.3	1.674	-1.6	1.558	-9.1
413	[99]		1.63		-	1.384	-17.8	2.005	18.7	1.608	-1.4	1.496	-9
414	[99]		1.77		-		-	1.914	7.5	1.788	1	1.851	4.4
415	[99]		1.76		-		-	2.045	13.9	1.731	-1.7	1.888	6.8
416	[99]		1.84		-		-	1.907	3.5	1.791	-2.7	1.849	0.5
417	[99]		1.71		-	1.443	-18.5	1.938	11.8	1.674	-2.2	1.558	-9.8
418	[99]		1.81		-	1.544	-17.2	1.971	8.2	1.453	-24.6	1.498	-20.8
419	[99]		1.78		-	1.544	-15.3	1.971	9.7	1.724	-3.2	1.634	-8.9
420	[99]		1.83		-		-	2.08	12	1.753	-4.4	1.917	4.5

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
421	[99]		1.86		-		-	1.958	5	1.824	-2	1.891	1.6
422	[99]		1.81		-	1.473	-22.9	2.031	10.9	1.741	-4	1.607	-12.6
423	[99]		1.58		-		-	2.009	21.4	1.589	0.6	1.799	12.2
424	[99]		1.66		-		-	1.825	9	1.614	-2.9	1.72	3.5
425	[99]		1.66		-		-	1.892	12.3	1.663	0.2	1.777	6.6
426	[99]		1.69		-		-	1.927	12.3	1.753	3.6	1.84	8.2
427	[99]		1.71		-		-	1.919	10.9	1.699	-0.6	1.809	5.5
428	[99]		1.81		-		-	1.966	7.9	1.785	-1.4	1.875	3.5
429	[99]		1.72		-		-	1.919	10.4	1.699	-1.2	1.809	4.9
430	[100]		1.68		-		-		-	1.67	-0.6	-	-
431	[100]		1.65		-		-		-	1.648	-0.1	-	-
432	[101]		1.596		-		-		-	1.685	5.3	-	-
433	[101]		1.863		-		-	2.013	7.5	1.883	1.1	1.948	4.4
434	[101]		1.908		-		-	1.869	-2.1	1.822	-4.7	1.845	-3.4

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
435	[101]		1.932		-		-	1.92	-0.6	1.891	-2.2	1.905	-1.4
436	[101]		1.822	1.691	-7.7		-		-	1.676	-8.7	1.683	-8.3
437	[101]		1.834	1.669	-9.9		-		-	1.691	-8.5	1.68	-9.2
438	[101]		1.659	1.641	-1.1		-		-	1.673	0.8	1.657	-0.1
439			1.679	1.627	-3.2		-		-	1.685	0.4	1.656	-1.4
440	[101]		1.687	1.665	-1.3		-		-	1.71	1.3	1.688	0.1
441			1.78	1.691	-5.3		-		-	1.711	-4	1.701	-4.6
442	[101]		1.761	1.674	-5.2		-		-	1.721	-2.3	1.698	-3.7
443	[101]		1.752	1.674	-4.7		-		-	1.735	-1	1.704	-2.8
444	[101]		1.815	1.763	-2.9		-		-	1.761	-3.1	1.762	-3
445	[101]		1.847	1.746	-5.8		-		-	1.766	-4.6	1.756	-5.2
446	[101]		1.844	1.785	-3.3		-		-	1.757	-5	1.771	-4.1
447	[101]		1.677	1.722	2.6		-		-	1.746	4	1.734	3.3
448	[101]		1.67	1.709	2.3		-		-	1.751	4.6	1.73	3.5

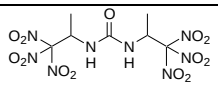
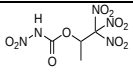
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
449	[101]		1.676	1.73	3.1		-		-	1.765	5	1.748	4.1
450	[101]		1.72	1.751	1.8		-		-	1.77	2.8	1.76	2.3
451	[101]		1.748	1.737	-0.6		-		-	1.774	1.5	1.756	0.5
452	[101]		1.716	1.737	1.2		-		-	1.784	3.8	1.76	2.5
453	[102]		1.99		-		-	1.981	-0.5	1.849	-7.6	1.915	-3.9
454	[103]		1.79		-		-	2.107	15	1.893	5.4	2	10.5
455	[103]		1.69	1.705	0.9		-		-	1.724	2	1.715	1.5
456	[103]		1.61	1.74	7.5		-		-	1.76	8.5	1.75	8
457	[103]		1.75	1.648	-6.2		-		-	1.72	-1.7	1.684	-3.9
458	[103]		1.64	1.648	0.5		-		-	1.72	4.7	1.684	2.6
459	[104]		1.86		-	1.441	-29.1	2.206	15.7	1.828	-1.8	1.821	-2.1
460	[26]		1.53		-		-	1.364	-12.2	1.547	1.1	1.456	-5.1
461	[38]		1.82		-		-	1.744	-4.4	1.726	-5.4	1.735	-4.9

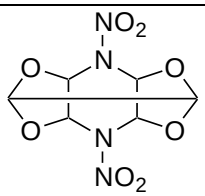
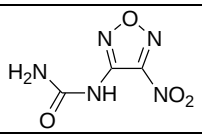
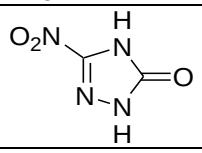
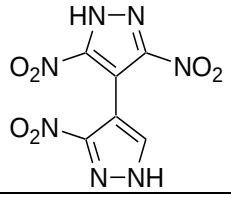
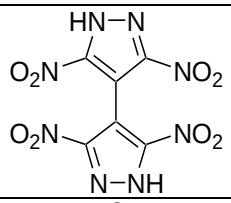
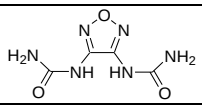
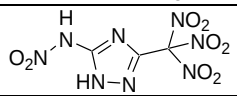
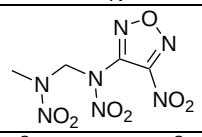
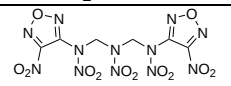
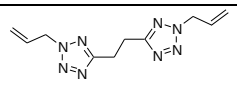
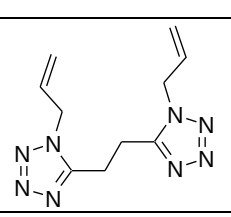
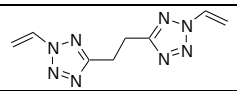
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
462	[38]		1.62		-		-	1.764	8.2	1.677	3.4	1.72	5.8
463	[24]		1.441		-		-		-	1.523	5.4	-	-
464	[24]		1.91		-		-		-	1.868	-2.2	1.901	-0.5
465	[105]		1.82		-		-	1.863	2.3	1.884	3.4	1.873	2.8
466	[105]		1.84		-		-	1.874	1.8	1.853	0.7	1.864	1.3
467	[105]		1.79		-		-	1.87	4.3	1.84	2.7	1.855	3.5
468	[105]		1.83		-		-	1.908	4.1	1.839	0.5	1.873	2.3
469	[105]		1.71		-	1.443	-18.5	2.006	14.8	1.699	-0.6	1.571	-8.8
470	[105]		1.68		-	1.357	-23.8		-	1.652	-1.7	1.504	-11.7
471	[47]		1.69		-		-	1.717	1.6	1.668	-1.3	1.692	0.1
472	[47]		1.62		-		-	1.618	-0.1	1.567	-3.4	1.593	-1.7
473	[47]		1.54		-		-	1.478	-4.2	1.472	-4.6	1.475	-4.4

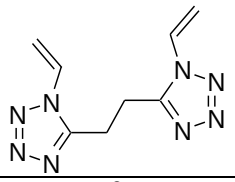
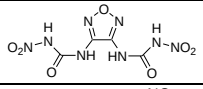
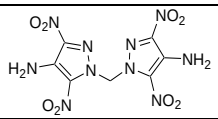
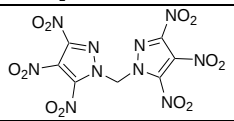
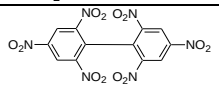
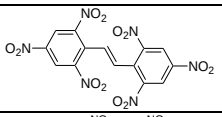
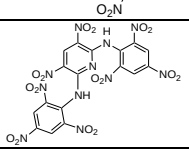
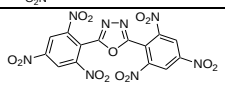
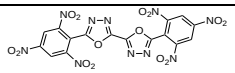
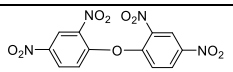
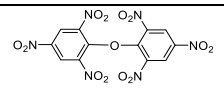
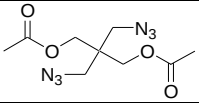
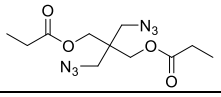
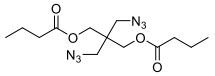
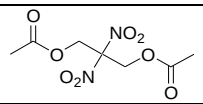
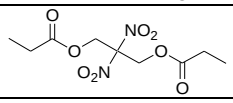
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
474	[106]		1.63		-		-	2.075	21.4	1.681	3	1.825	10.7
475	[106]		1.67	1.646	-1.5		-		-	1.634	-2.2	1.785	6.4
476	[106]		1.6	1.553	-3		-		-	1.594	-0.4	1.574	-1.7
477	[106]		1.4	1.568	10.7		-		-	1.562	10.4	1.574	11.1
478	[107]		1.62		-	1.311	-23.6	2.147	24.5	1.551	-4.4	1.67	3
479	[107]		1.69		-		-	1.955	13.6	1.764	4.2	1.86	9.1
480	[108]		1.69		-		-	1.744	3.1	1.679	-0.7	1.712	1.3
481	[109]		1.78		-		-	1.744	-2.1	1.679	-6	1.712	-4
482	[110]		1.81		-		-	1.785	-1.4	1.851	2.2	1.818	0.4

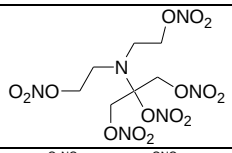
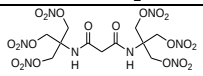
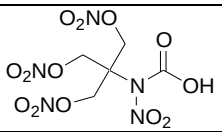
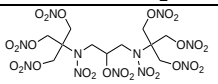
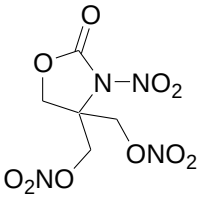
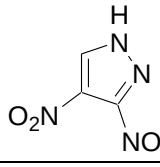
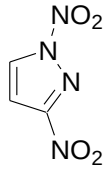
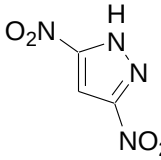
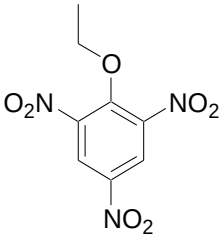
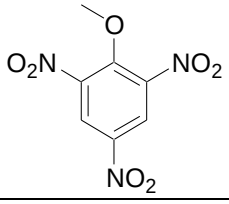
2.4.2 The densities of neutral compounds

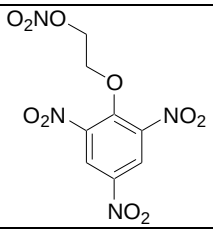
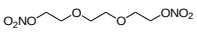
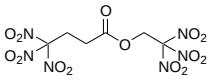
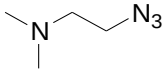
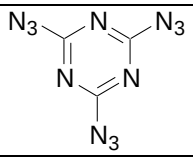
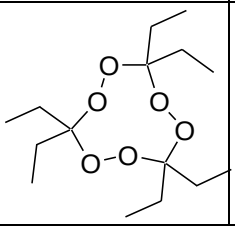
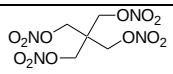
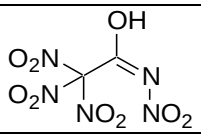
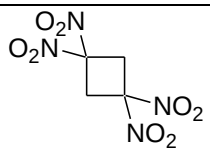
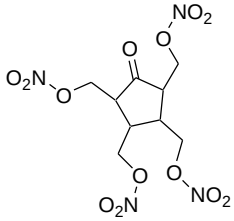
Table 74. Table summarizing the structural formulae, empirical formulae and the densities of the neutral compounds.

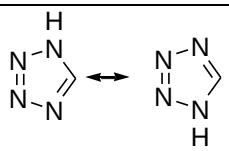
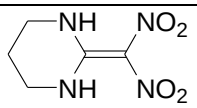
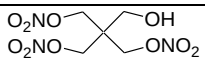
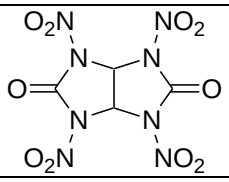
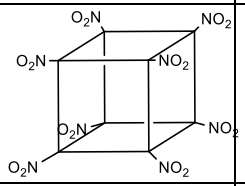
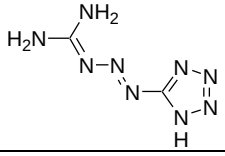
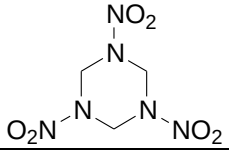
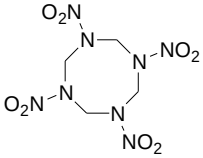
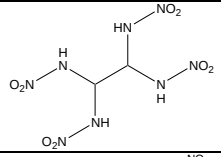
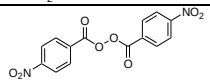
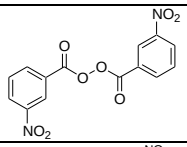
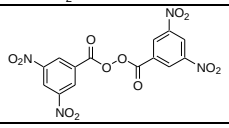
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1	[22]		1.82		-	1.697	-7.2	1.712	-6.3	1.704	-6.8
2	[22]		1.58		-	1.747	9.6	1.792	11.8	1.77	10.7

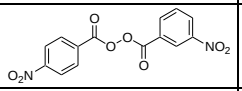
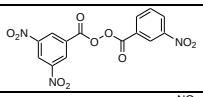
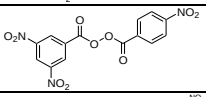
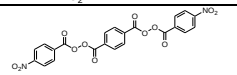
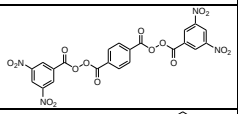
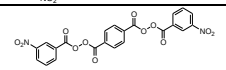
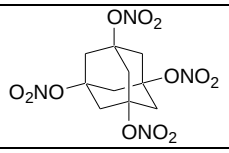
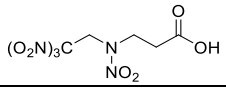
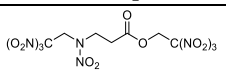
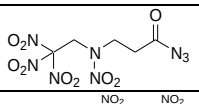
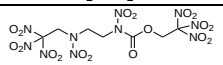
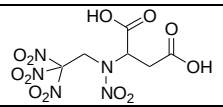
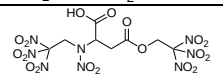
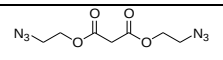
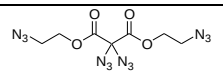
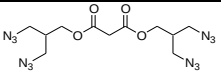
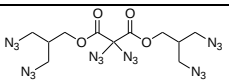
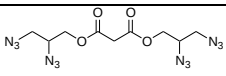
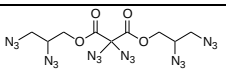
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
3	[23] [24]		1.985		-	1.769	-12.2	2.007	1.1	1.888	-5.1
4	[25]		1.68		-	1.862	9.8	1.811	7.2	1.837	8.5
5	[23] [26]		1.916		-	1.9	-0.8	1.882	-1.8	1.891	-1.3
6	[27]		1.855		-	1.897	2.2	1.854	-0.1	1.876	1.1
7	[27]		1.820		-	1.94	6.2	1.927	5.6	1.933	5.8
8	[25]		1.95		-	1.742	-11.9	1.697	-14.9	1.72	-13.4
9	[28]		1.91		-	2.064	7.5	1.957	2.4	2.01	5
10	[29]		1.74		-	1.921	9.4	1.767	1.5	1.844	5.6
11	[29]		1.90		-	1.932	1.7	1.884	-0.8	1.908	0.4
12	[30]		1.2		-		-	1.255	4.4	-	
13	[30]		1.2		-		-	1.255	4.4	-	-
14	[30]		1.4		-		-	1.324	-5.7	-	-

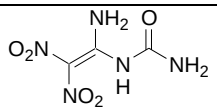
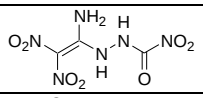
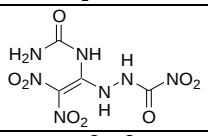
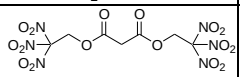
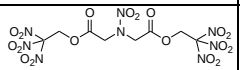
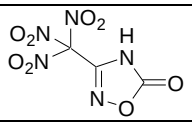
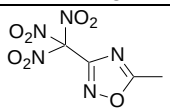
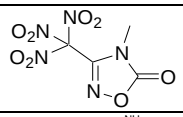
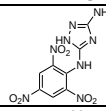
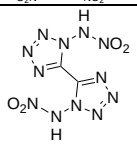
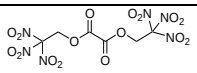
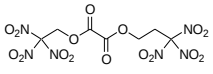
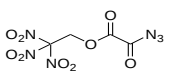
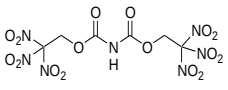
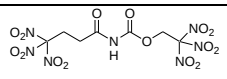
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
15	[30]		1.4		-		-	1.324	-5.7	-	-
16	[25]		1.87		-	1.892	1.2	1.875	0.3	1.883	0.7
17	[31]		1.802		-	1.858	3	1.838	2	1.848	2.5
18	[31]		1.934		-	1.941	0.4	1.933	-0.1	1.937	0.2
19	[32] [26]		1.694		-	1.797	5.7	1.776	4.6	1.786	5.2
20	[32]		1.74		-	1.749	0.5	1.704	-2.1	1.727	-0.8
21	[32]		1.757		-	1.813	3.1	1.776	1.1	1.794	2.1
22	[32] [33]		1.77		-	1.831	3.3	1.779	0.5	1.805	1.9
23	[32]		1.837		-	1.857	1.1	1.781	-3.1	1.819	-1
24	[34]		1.689		-	1.606	-5.2	1.667	-1.3	1.637	-3.2
25	[34]		1.70		-	1.71	0.6	1.792	5.1	1.746	2.6
26	[35]		1.21	1.226	1.3	1.443	16.1	1.28	5.5		-
27	[35]		1.16	1.171	0.9	1,335	99.9	1.23	5.7	1.316	11.9
28	[35]		1.09	1.123	2.9	1.245	12.4	1.192	8.6	1.251	12.9
29	[35]		1.33		-	1.423	6.5	1.478	10	1.347	1.3
30	[35]		1.22		-	1.309	6.8	1.386	12	1.348	9.5

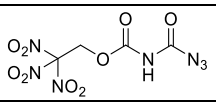
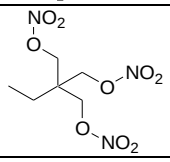
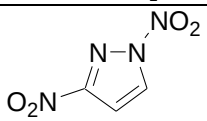
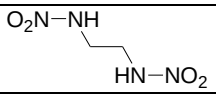
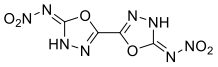
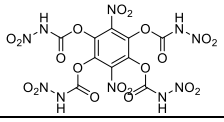
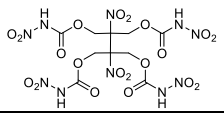
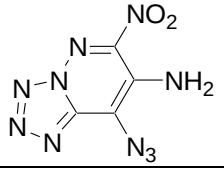
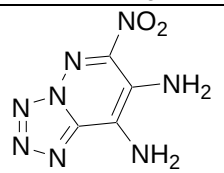
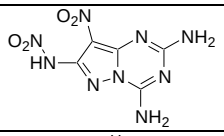
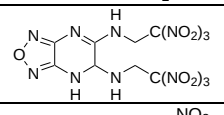
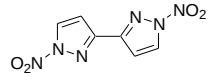
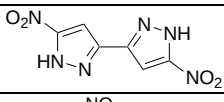
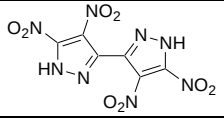
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
31	[36]		1.69		-	1.602	-5.5	1.632	-3.6	1.617	-4.5
32	[36]		1.67		-	1.606	-4	1.632	-2.3	1.619	-3.2
33	[36]		1.73		-	1.788	3.2	1.775	2.5	1.781	2.9
34	[36]		1.80		-	1.71	-5.3	1.726	-4.3	1.718	-4.8
35	[36]		1.84		-	1.775	-3.7	1.78	-3.4	1.777	-3.5
36	[37]		1.79		-	1.874	4.5	1.849	3.2	1.861	3.8
37	[37]		1.76		-	1.874	6.1	1.842	4.5	1.858	5.3
38	[37]		1.78		-	1.874	5	1.849	3.7	1.861	4.4
39	[26]		1.554		-	1.59	2.3	1.59	2.3	1.59	2.3
40	[38]		1.7		-	1.665	-2.1	1.665	-2.1	1.665	-2.1

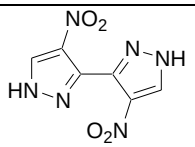
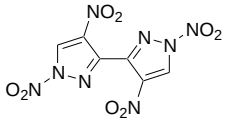
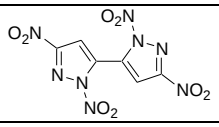
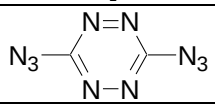
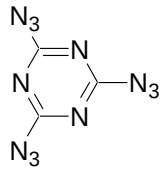
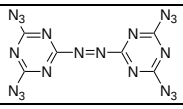
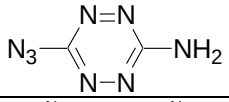
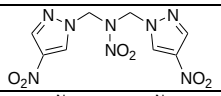
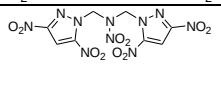
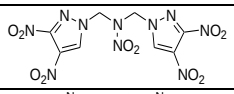
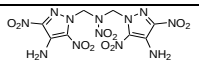
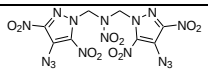
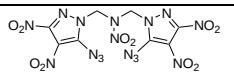
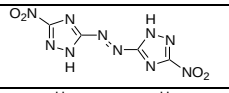
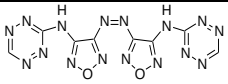
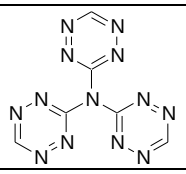
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
41	[38]		1.723		-	1.684	-2.3	1.707	-0.9	1.696	-1.6
44	[38]		1.344		-	1.273	-5.6	1.452	7.4	1.362	1.3
45	[38]		1.78		-	1.748	-1.8	1.78	0	1.764	-0.9
46	[24]		0.933	1.14	18.2		-	1.109	15.9	1.124	17
47	[24] [40]		1.73		-		-	1.563	-10.7	-	-
49	[42]		1.25		-		-	1.124	-11.2	-	-
51	[44]		1.76		-	1.768	0.5	1.706	-3.2	1.737	-1.3
54	[38]		1.87		-	2.017	7.3	1.937	3.5	1.977	5.4
55	[38]		1.83		-	1.837	0.4	1.819	-0.6	1.828	-0.1
56	[38]		1.55		-	1.486	-4.3	1.622	4.4	1.554	0.3

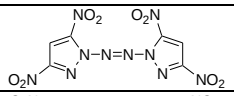
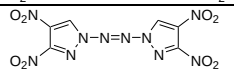
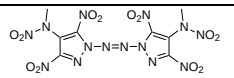
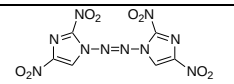
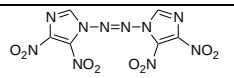
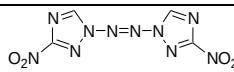
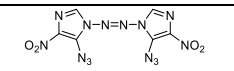
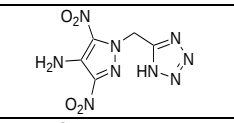
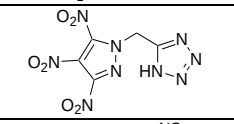
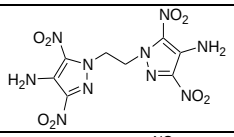
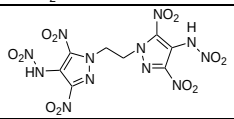
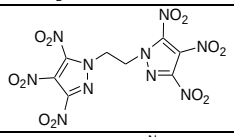
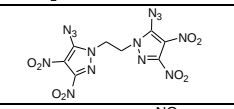
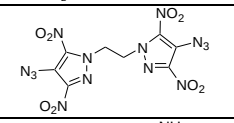
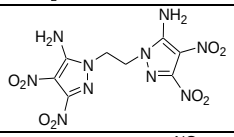
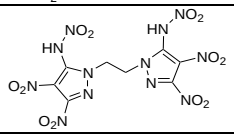
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
58	[38]		1.529		-		-	1.582	3.4	-	-
59	[47]		1.65		-	1.618	-2	1.567	-5.3	1.593	-3.6
60	[38]		1.54		-	1.622	5.1	1.642	6.2	1.632	5.6
61	[38]		2.04		-	2.035	-0.2	2.065	1.2	2.05	0.5
62	[38]		1.979		-	2.013	1.7	2.202	10.1	2.107	6.1
63	[38]		1.64		-		-	1.538	-6.6	1.768	7.2
64	[26]		1.806		-	1.843	2	1.797	-0.5	1.82	0.8
65	[38]		1.903		-	1.843	-3.3	1.782	-6.8	1.812	-5
66	[38]		1.87		-	1.819	-2.8	1.889	1	1.854	-0.9
67	[48]		1.61		-	1.566	-2.8	1.547	-4.1	1.556	-3.5
68	[48]		1.608		-	1.566	-2.7	1.547	-3.9	1.556	-3.3
69	[48]		1.718		-	1.701	-1	1.686	-1.9	1.694	-1.4

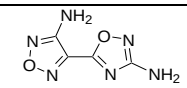
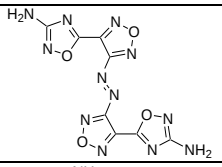
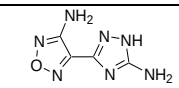
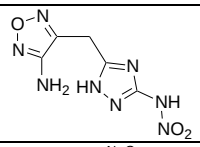
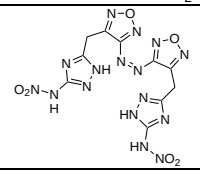
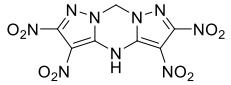
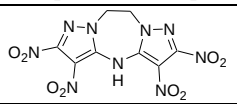
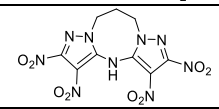
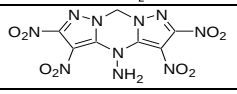
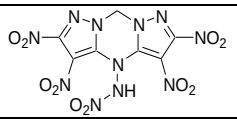
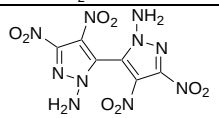
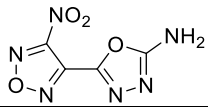
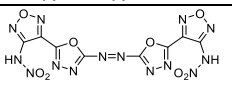
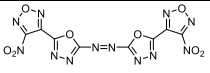
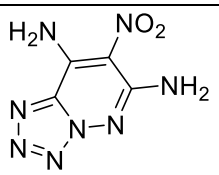
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
70	[48]		1.67		-	1.566	-6.6	1.547	-8	1.556	-7.3
71	[48]		1.70		-	1.642	-3.5	1.622	-4.8	1.632	-4.2
72	[48]		1.69		-	1.642	-2.9	1.622	-4.2	1.632	-3.6
73	[48]		1.46		-	1.545	5.5	1.532	4.7	1.538	5.1
74	[48]		1.51		-	1.646	8.3	1.631	7.4	1.639	7.9
75	[48]		1.45		-	1.545	6.1	1.532	5.4	1.538	5.7
77	[49]		1.659		-	1.534	-8.1	1.705	2.7	1.619	-2.5
78	[50]		1.72		-	1.778	3.3	1.711	-0.5	1.744	1.4
79	[50]		1.73		-	1.747	1	1.773	2.4	1.76	1.7
80	[50]		1.70	1.685	-0.9		-	1.651	-3	1.687	-0.8
81	[50]		1.89		-	1.786	-5.8	1.816	-4.1	1.762	-7.3
82	[50]		1.66		-	1.787	7.1	1.738	4.5	1.762	5.8
83	[50]		1.65		-	1.847	10.7	1.787	7.7	1.817	9.2
84	[51]		1.38	1.292	-6.8		-	1.348	-2.4	1.32	-4.5
85	[51]		1.49	1.41	-5.7		-	1.437	-3.7	1.423	-4.7
86	[51]		1.38	1.323	-4.3		-	1.318	-4.7	1.321	-4.5
87	[51]		1.51	1.413	-6.9		-	1.382	-9.3	1.397	-8.1
88	[51]		1.30	1.361	4.5		-	1.37	5.1	1.365	4.8
89	[51]		1.50	1.446	-3.7		-	1.433	-4.7	1.44	-4.2

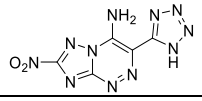
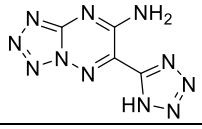
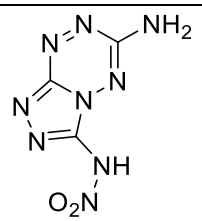
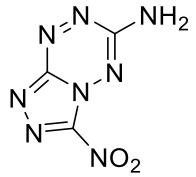
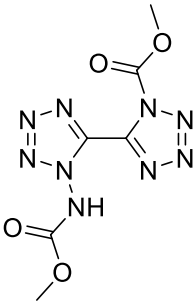
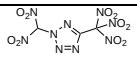
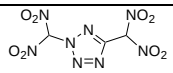
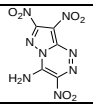
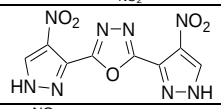
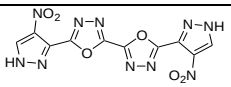
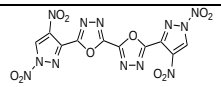
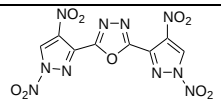
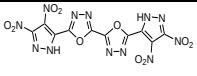
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
90	[52]		1.86		-	1.744	-6.7	1.77	-5.1	1.757	-5.9
91	[52]		1.79		-	1.831	2.2	1.862	3.9	1.847	3.1
92	[52]		1.70		-	1.818	6.5	1.841	7.7	1.829	7.1
94	[53]		1.76		-	1.748	-0.7	1.789	1.6	1.768	0.5
95	[53]		1.78		-	1.748	-1.8	1.781	0.1	1.764	-0.9
96	[54]		1.95		-	1.92	-1.6	1.972	1.1	1.946	-0.2
97	[54]		1.84		-	1.834	-0.3	1.784	-3.1	1.809	-1.7
98	[54]		1.80		-	1.829	1.6	1.833	1.8	1.831	1.7
105	[55]		1.85		-	1.989	7	1.746	-6	1.868	1
109	[56]		1.930		-	2.134	9.6	1.921	-0.5	2.027	4.8
113	[57]		1.84		-	1.797	-2.4	1.851	0.6	1.824	-0.9
114	[57]		1.73		-	1.748	1	1.789	3.3	1.769	2.2
115	[57]		1.75	1.858	5.8		-	1.782	1.8	1.82	3.8
116	[57]		1.92		-	1.795	-7	1.851	-3.7	1.823	-5.3
117	[57]		1.63		-	1.748	6.8	1.776	8.2	1.762	7.5

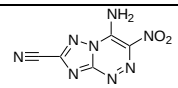
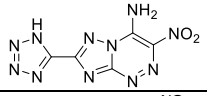
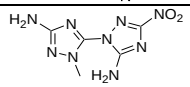
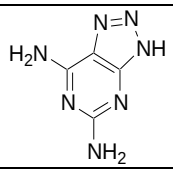
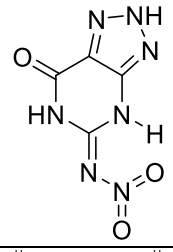
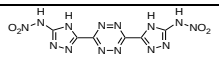
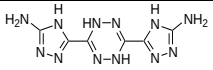
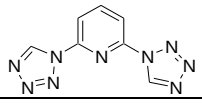
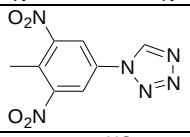
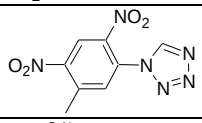
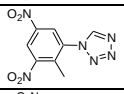
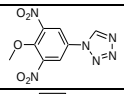
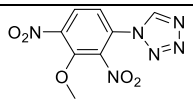
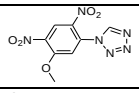
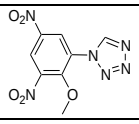
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
118	[57]		1.50	1.878	20.1		-	1.785	16	1.831	18.1
119	[26]		1.500		-	1.445	-3.8	1.527	1.8	1.529	1.9
120	[37]		1.76		-	1.874	6.1	1.842	4.5	1.858	5.3
121	[26]		1.75		-	1.608	-8.8	1.646	-6.3	1.627	-7.6
123	[58]		1.98		-	1.981	0.1	1.849	-7.1	1.915	-3.4
129	[60]		1.71		-	1.852	7.7	1.924	11.1	1.888	9.4
130	[60]		1.89		-	1.713	-10.3	1.764	-7.1	1.739	-8.7
131	[61]		1.82	1.39	-30.9	2.107	13.6	1.749	-4.1	1.57	-15.9
132	[61]		1.80		-	1.948	7.6	1.766	-1.9	1.857	3.1
136	[62]		1.89		-		-	1.825	-3.6	-	-
138	[63]		1.80		-	1.83	1.6	1.806	0.3	1.818	1
139	[64]		1.81		-	1.836	1.4	1.751	-3.4	1.794	-0.9
140	[64]		1.81		-	1.836	1.4	1.759	-2.9	1.797	-0.7
141	[64]		1.84		-	1.94	5.2	1.927	4.5	1.933	4.8

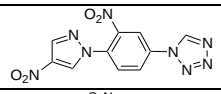
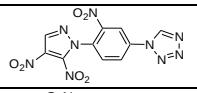
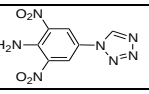
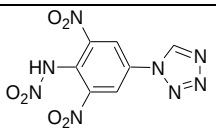
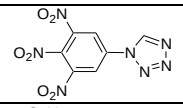
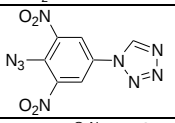
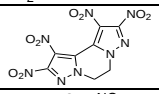
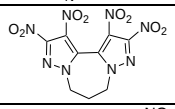
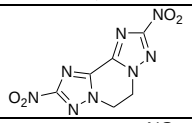
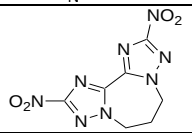
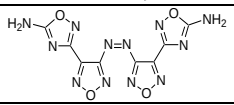
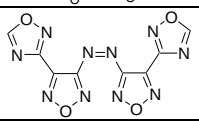
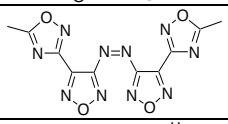
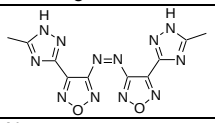
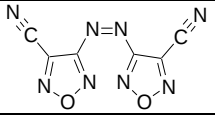
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
142	[64]		1.83		-	1.836	0.3	1.759	-4	1.797	-1.8
143	[64]		1.85		-	1.94	4.6	1.92	3.6	1.98	6.6
144	[64]		1.855		-	1.94	4.4	1.92	3.4	1.98	6.3
145	[40]		1.62	1.28	-26.6		-	1.566	-3.4	1.423	-13.8
146	[40]		1.74		-		-	1.563	-11.3	-	-
147	[40]		1.67		-		-	1.481	-12.8	-	-
148	[40]		1.68		-		-	1.554	-8.1	-	-
150	[65]		1.69		-	1.745	3.2	1.663	-1.6	1.704	0.8
151	[65]		1.789		-	1.847	3.1	1.801	0.7	1.824	1.9
152	[65]		1.78		-	1.847	3.6	1.801	1.2	1.824	2.4
153	[65]		1.86		-	1.839	-1.1	1.82	-2.2	1.829	-1.7
154	[65]		1.83	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6
155	[65]		1.83	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6
156	[66]		1.88		-	2.062	8.8	1.795	-4.7	1.928	2.5
162	[67]		1.67		-		-	1.609	-3.8	-	-
165	[67]		1.73		-		-	1.517	-14	-	-

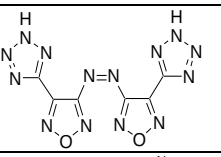
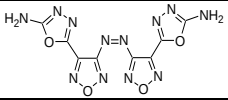
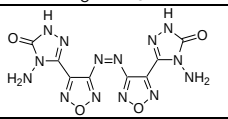
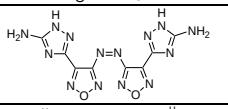
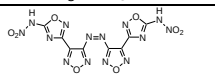
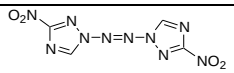
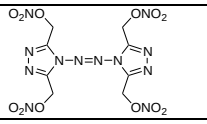
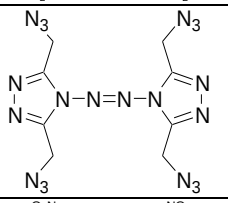
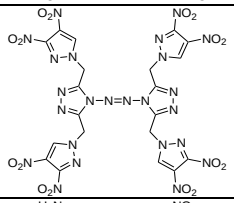
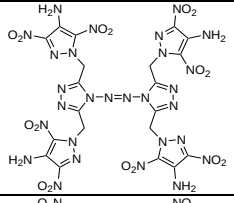
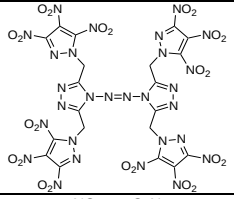
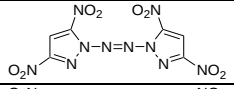
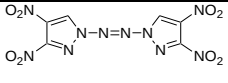
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166	[68]**4**		**1.81**		-	**1.983**	**8.7**	**1.852**	**2.3**	**1.917**	**5.6**
167	[68]**5**		**1.82**		-	**1.983**	**8.2**	**1.852**	**1.7**	**1.917**	**5.1**
168	[68]**6**		**1.80**		-	**1.911**	**5.8**	**1.816**	**0.9**	**1.864**	**3.4**
169	[68]**7**		**1.85**		-	**1.983**	**6.7**	**1.852**	**0.1**	**1.917**	**3.5**
170	[68]**8**		**1.83**		-	**1.983**	**7.7**	**1.852**	**1.2**	**1.917**	**4.5**
171	[68]		**1.80**		-	**2.062**	**12.7**	**1.77**	**-1.7**	**1.916**	**6.1**
172	[68]		**1.77**	**1.47**	**-20.4**		-	**1.712**	**-3.4**	**1.591**	**-11.3**
173	[69]		**1.83**		-	**2.08**	**12**	**1.753**	**-4.4**	**1.917**	**4.5**
174	[69]		**1.86**		-	**1.958**	**5**	**1.824**	**-2**	**1.891**	**1.6**
183	[70]		**1.77**		-	**1.799**	**1.6**	**1.768**	**-0.1**	**1.784**	**0.8**
184	[70]		**1.84**		-	**1.877**	**2**	**1.862**	**1.2**	**1.869**	**1.6**
186	[70]		**1.84**		-	**1.887**	**2.5**	**1.863**	**1.2**	**1.875**	**1.9**
187	[70]		**1.78**	**1.543**	**-15.4**	**1.983**	**10.2**	**1.75**	**-1.7**	**1.647**	**-8.1**
188	[70]		**1.76**	**1.543**	**-14.1**	**1.983**	**11.2**	**1.75**	**-0.6**	**1.647**	**-6.9**
189	[70]		**1.75**		-	**1.799**	**2.7**	**1.768**	**1**	**1.784**	**1.9**
190	[70]		**1.83**		-	**1.877**	**2.5**	**1.862**	**1.7**	**1.869**	**2.1**

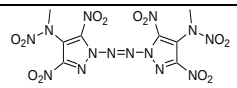
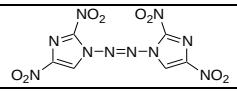
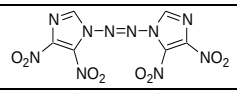
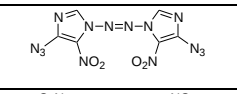
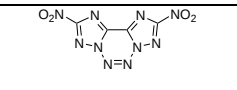
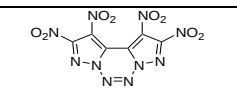
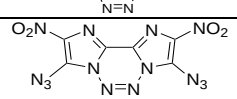
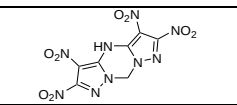
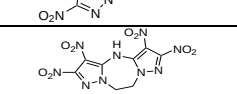
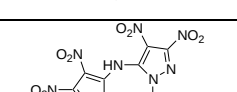
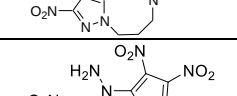
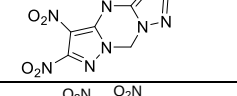
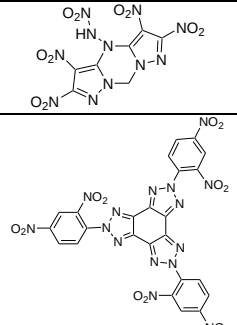
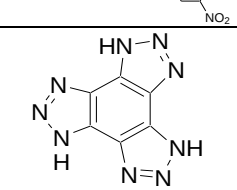
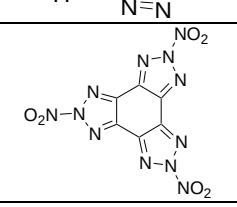
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
191	[71]		1.680		-		-	1.716	2.1	-	-
193	[71]		1.652		-		-	1.716	3.7	-	-
194	[71]		1.716		-		-	1.685	-1.8	-	-
199	[73]		1.695		-	1.832	7.5	1.692	-0.2	1.762	3.8
200	[73]		1.704		-	1.924	11.4	1.692	-0.7	1.808	5.8
210	[75]		1.895		-	2.014	5.9	1.932	1.9	1.973	4
211	[75]		1.80		-	1.949	7.6	1.847	2.5	1.898	5.2
212	[75]		1.760		-	1.89	6.9	1.775	0.8	1.833	4
216	[75]		1.790		-	2.005	10.7	1.929	7.2	1.967	9
217	[75]		1.937		-	2.037	4.9	1.972	1.8	2.005	3.4
219	[76]		1.760 *1.811@ 173 K*		-	1.922	8.4	1.921	8.4	1.922	8.4
220	[77]		1.747		-	1.95	10.4	1.823	4.2	1.976	11.6
221	[77]		1.767		-	2.033	13.1	1.826	3.2	1.929	8.4
222	[77]		1.825		-	2.056	11.2	1.824	-0.1	1.94	5.9
223	[78]		1.869		-	1.948	4.1	1.766	-5.8	1.857	-0.6

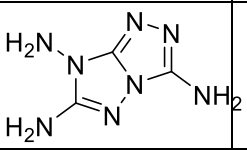
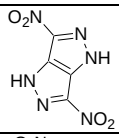
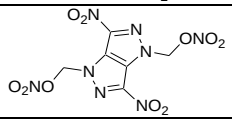
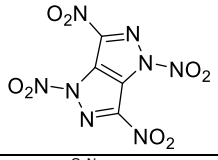
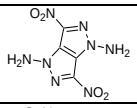
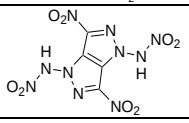
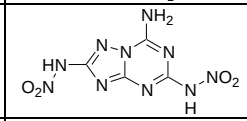
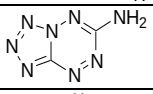
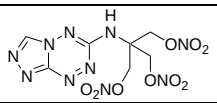
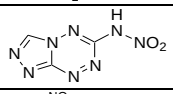
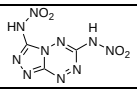
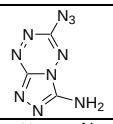
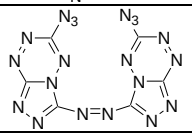
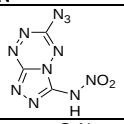
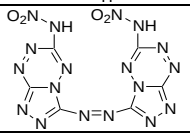
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231	[80]		1.873		-	2.067	9.4	1.776	-5.5	1.921	2.5
232	[80]		1.795		-		-	1.714	-4.7	-	-
239	[81]		1.79		-	2.05	12.7	1.804	0.8	1.927	7.1
240	[81]		1.83		-	1.769	-3.4	1.8	-1.7	1.784	-2.6
241	[82]		1.64		-		-	1.59	-3.1	-	-
254	[85]		1.88		-	1.997	5.9	1.95	3.6	1.974	4.8
258	[85]		1.92		-		-	1.881	-2.1	1.922	0.1
261	[86]		1.90		-	1.971	3.6	1.897	-0.2	1.934	1.8
262	[87]		1.800		-	1.884	4.5	1.768	-1.8	1.826	1.4
263	[87]		1.809		-	1.914	5.5	1.773	-2	1.843	1.8
264	[87]		1.831		-	1.972	7.2	1.903	3.8	1.976	7.3
265	[87]		1.844		-	1.959	5.9	1.897	2.8	1.92	4
266	[87]		1.870		-	1.972	5.2	1.885	0.8	1.929	3.1

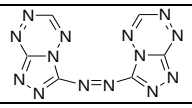
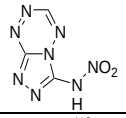
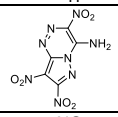
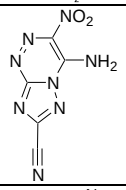
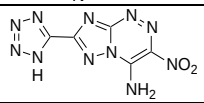
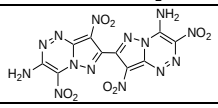
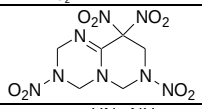
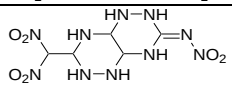
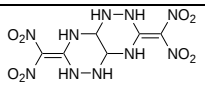
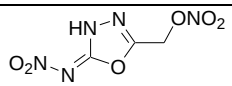
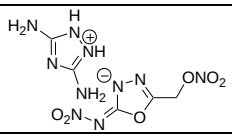
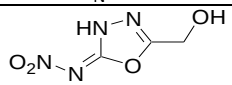
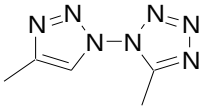
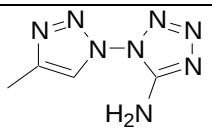
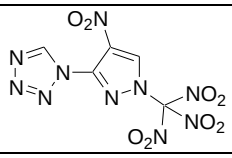
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
267	[88]		1.753		-	2.056	14.7	1.729	-1.4	1.893	7.4
268	[88]		1.819		-	2.067	12	1.776	-2.4	1.921	5.3
269	[89]		1.83		-	1.831	0.1	1.657	-10.4	1.744	-4.9
270	[90]		1.67		-	1.873	10.8	1.638	-2	1.756	4.9
271	[90]		1.94		-	1.949	0.5	1.856	-4.5	1.903	-1.9
272	[91]		1.88		-	2.044	8	1.781	-5.6	1.913	1.7
273	[91]		1.84		-		-	1.659	-10.9	-	-
283	[92]		1.59		-		-	1.518	-4.7	1.724	7.8
284	[92]		1.66		-		-	1.577	-5.3	1.661	0.1
285	[92]		1.63		-	1.745	6.6	1.577	-3.4	1.661	1.9
286	[92]		1.62		-	1.745	7.2	1.577	-2.7	1.661	2.5
287	[92]		1.70		-	1.746	2.6	1.608	-5.7	1.677	-1.4
288	[92]		1.62		-	1.746	7.2	1.608	-0.7	1.677	3.4
289	[92]		1.65		-	1.746	5.5	1.608	-2.6	1.677	1.6
290	[92]		1.66		-	1.746	4.9	1.608	-3.2	1.677	1

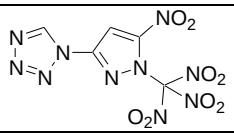
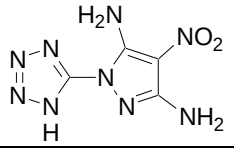
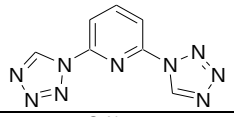
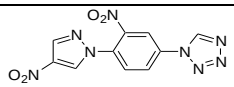
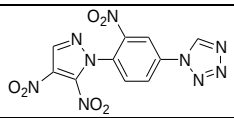
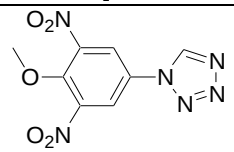
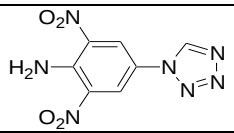
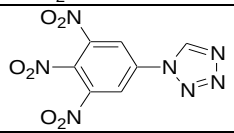
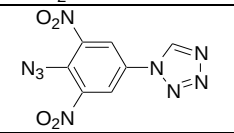
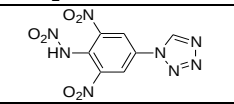
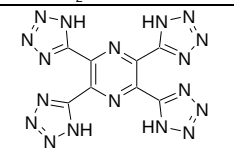
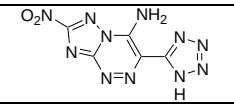
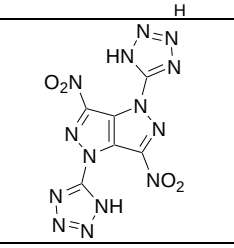
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
291	[92]		1.64		-	1.812	9.5	1.627	-0.8	1.72	4.7
292	[92]		1.68		-	1.862	9.8	1.705	1.5	1.784	5.8
293	[92]		1.69		-	1.825	7.4	1.675	-0.9	1.75	3.4
294	[92]		1.76		-	1.882	6.5	1.755	-0.3	1.818	3.2
295	[92]		1.83		-	1.89	3.2	1.75	-4.6	1.82	-0.5
296	[92]		1.70	1.361	-24.9	1.964	13.4	1.671	-1.7	1.665	-2.1
301	[94]		1.762		-	1.866	5.6	1.847	4.6	1.857	5.1
302	[94]		1.677		-	1.803	7	1.772	5.4	1.788	6.2
303	[94]		1.733		-	1.905	9	1.763	1.7	1.834	5.5
304	[94]		1.634		-	1.82	10.2	1.677	2.6	1.748	6.5
305	[95]		1.85		-		-	1.716	-7.8	-	-
306	[95]		1.68		-		-	1.684	0.2	-	-
307	[95]		1.75		-		-	1.567	-11.7	-	-
308	[95]		1.81		-		-	1.54	-17.5	-	-
309	[95]		1.62		-		-	1.613	-0.4	-	-

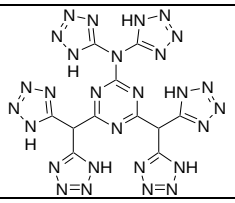
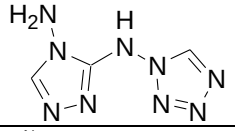
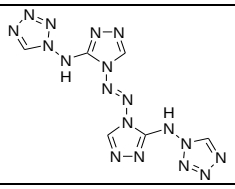
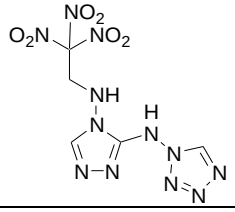
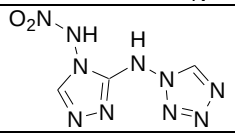
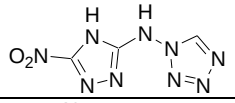
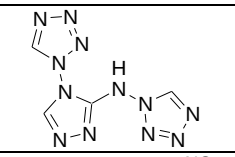
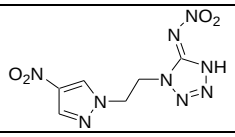
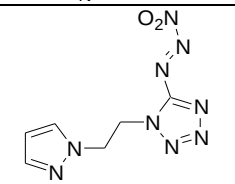
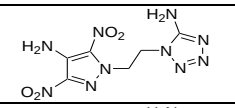
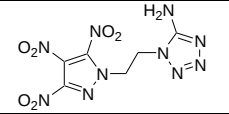
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
310	[95]		1.69		-		-	1.715	1.5	-	-
311	[95]		1.83		-		-	1.716	-6.6	-	-
312	[95]		1.68		-		-	1.79	6.1	-	-
313	[95]		1.79		-		-	1.685	-6.2	-	-
314	[95]		2.12		-	2.033	-4.3	1.826	-16.1	1.929	-9.9
315	[95]		1.80		-	2.062	12.7	1.77	-1.7	1.916	6.1
316	[95]		1.70		-	1.833	7.3	1.687	-0.8	1.76	3.4
317	[95]		1.53	1.36	-12.5		-	1.462	-4.7	1.411	-8.4
318	[95]		1.74		-	1.889	7.9	1.742	0.1	1.816	4.2
319	[95]		1.75		-	1.879	6.9	1.763	0.7	1.821	3.9
320	[95]		1.82		-	1.944	6.4	1.843	1.2	1.893	3.9
321	[95]		1.81		-	1.983	8.7	1.852	2.3	1.917	5.6
322	[95]		1.82		-	1.983	8.2	1.852	1.7	1.917	5.1

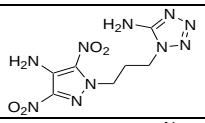
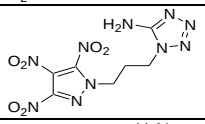
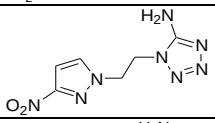
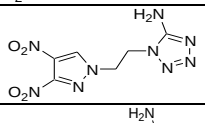
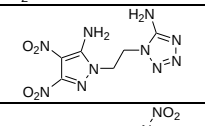
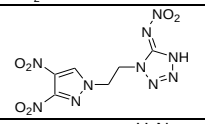
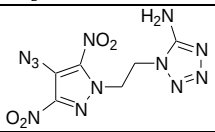
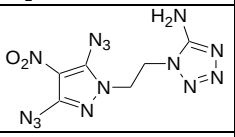
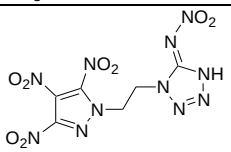
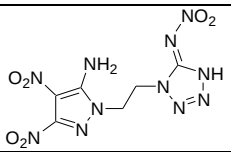
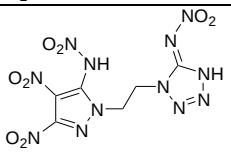
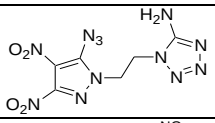
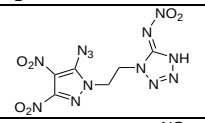
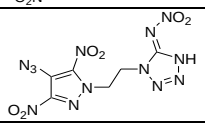
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
323	[95]		1.80		-	1.911	5.8	1.816	0.9	1.864	3.4
324	[95]		1.85		-	1.983	6.7	1.852	0.1	1.917	3.5
325	[95]		1.83		-	1.983	7.7	1.852	1.2	1.917	4.5
326	[95]		1.77	1.47	-20.4	2.107	16	1.712	-3.4	1.591	-11.3
327	[96]		1.901 (β), 1.91 (α)		-	2.146	11	1.949	2	2.047	6.7
328	[96]		1.89		-	2.044	7.5	1.994	5.2	2.019	6.4
329	[96]		1.89	1.47	-28.6	2.171	12.9	1.835	-3	1.652	-14.4
330	[96]		1.90		-	2.014	5.7	1.932	1.7	1.973	3.7
331	[96]		1.80		-	1.949	7.6	1.847	2.5	1.898	5.2
332	[96]		1.76		-	1.89	6.9	1.775	0.8	1.833	4
333	[96]		1.79		-	2.005	10.7	1.929	7.2	1.967	9
334	[96]		1.94		-	2.037	4.8	1.972	1.6	2.005	3.2
336	[96]		1.69		-	1.834	7.9	1.719	1.7	1.776	4.8
337	[96]		1.77		-		-	1.811	2.3	-	-
338	[96]		1.82		-		-	2.033	10.5	2.119	14.1

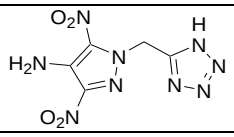
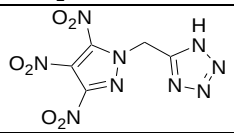
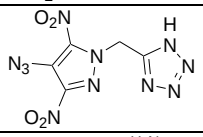
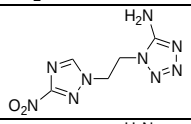
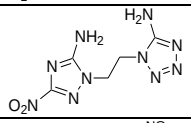
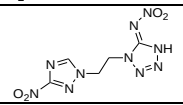
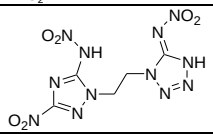
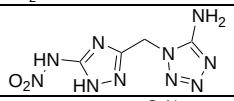
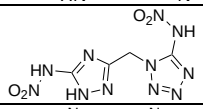
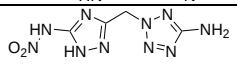
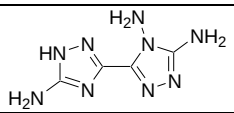
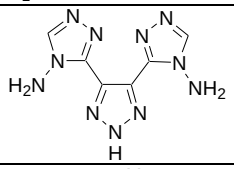
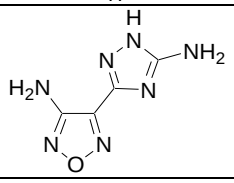
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
339	[96]		1.73		-		-	1.774	2.5	-	-
340	[96]		1.85		-	1.95	5.1	1.942	4.7	1.946	4.9
341	[96]		1.82		-	1.863	2.3	1.856	1.9	1.86	2.2
342	[96]		1.95		-	2.127	8.3	2.085	6.5	2.106	7.4
343	[96]		1.84		-	1.921	4.2	1.93	4.7	1.925	4.4
344	[96]		1.93		-	2	3.5	2.042	5.5	2.021	4.5
346	[96]		1.84		-	1.98	7.1	1.856	0.9	1.918	4.1
347	[96]		1.68		-		-	1.714	2	-	-
350	[96]		1.79		-	1.799	0.5	1.7	-5.3	1.749	-2.3
351	[96]		1.76		-	2.076	15.2	1.782	1.2	1.929	8.8
352	[96]		1.91		-	2.078	8.1	1.89	-1.1	1.984	3.7
355	[96]		1.74	1.27	-37		-	1.674	-3.9	1.472	-18.2
356	[96]		1.77	1.37	-29.2		-	1.674	-5.7	1.522	-16.3
357	[96]		1.85	1.456	-27.1	2.196	15.8	1.782	-3.8	1.619	-14.3
358	[96]		1.85		-	2.158	14.3	1.805	-2.5	1.982	6.7

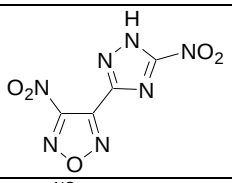
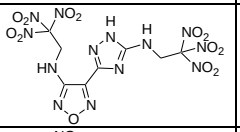
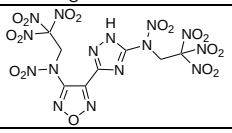
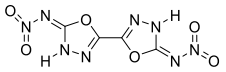
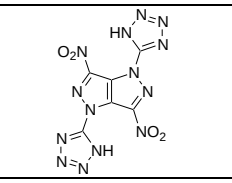
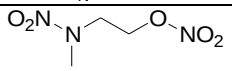
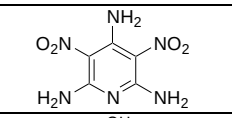
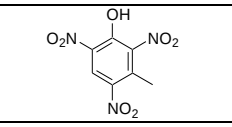
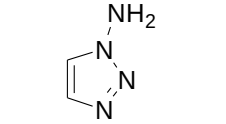
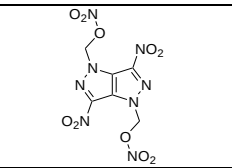
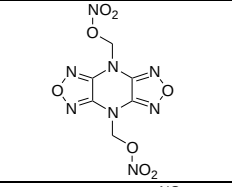
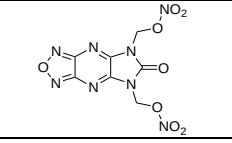
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
359	[96]		1.91		-		-	1.644	-16.2	-	-
360	[96]		1.81		-	2.076	12.8	1.782	-1.6	1.929	6.2
361	[96]		1.95		-	1.971	1.1	1.897	-2.8	1.934	-0.8
363	[96]		1.81		-	2.056	12	1.729	-4.7	1.893	4.4
364	[96]		1.82		-	2.067	11.9	1.776	-2.5	1.921	5.3
365	[96]		1.85		-	1.971	6.1	1.859	0.5	1.915	3.4
366	[96]		1.86		-	1.933	3.8	1.748	-6.4	1.841	-1
367	[96]		1.73		-	1.832	5.6	1.791	3.4	1.812	4.5
368	[96]		1.85		-	1.892	2.2	1.876	1.4	1.884	1.8
370	[98]		1.875		-	1.794	-4.5	1.796	-4.4	1.795	-4.5
374	[98]		1.814		-		-	1.733	-4.7	1.726	-5.1
376	[98]		1.811		-	1.943	6.8	1.678	-7.9	1.81	-0.1
377	[99]		1.47		-		-	1.414	-4	-	-
378	[99]		1.52		-		-	1.536	1	-	-
379	[99]		1.79		-	1.991	10.1	1.886	5.1	1.938	7.6

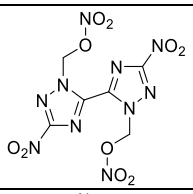
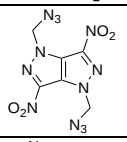
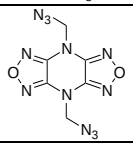
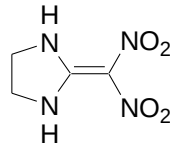
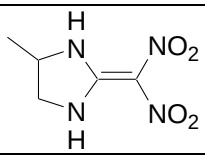
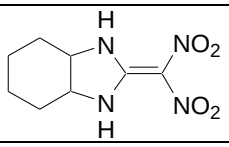
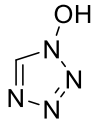
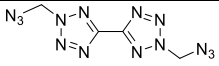
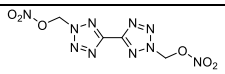
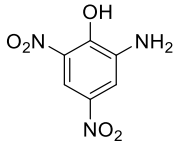
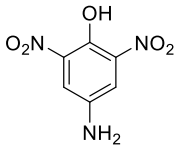
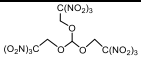
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
380	[99]		1.76		-	1.991	11.6	1.886	6.7	1.938	9.2
381	[99]		1.76		-	1.933	8.9	1.772	0.7	1.853	5
382	[99]		1.59		-		-	1.518	-4.7	1.724	7.8
383	[99]		1.64		-	1.812	9.5	1.627	-0.8	1.72	4.7
384	[99]		1.68		-	1.862	9.8	1.705	1.5	1.784	5.8
385	[99]		1.70		-	1.746	2.6	1.608	-5.7	1.677	-1.4
386	[99]		1.69		-	1.825	7.4	1.675	-0.9	1.75	3.4
387	[99]		1.83		-	1.89	3.2	1.75	-4.6	1.82	-0.5
388	[99]		1.70	1.361	-24.9	1.964	13.4	1.671	-1.7	1.516	-12.1
389	[99]		1.76		-	1.882	6.5	1.755	-0.3	1.755	-0.3
390	[99]		1.95		-		-	1.681	-16	-	-
391	[99]		1.87		-	2.067	9.5	1.776	-5.3	1.921	2.7
392	[99]		1.79		-	2.107	15	1.893	5.4	2	10.5

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
393	[99]		1.88		-		-	1.664	-13	-	-
396	[99]		1.65		-		-	1.662	0.7	-	-
397	[99]		1.68		-		-	1.661	-1.1	-	-
398	[99]		1.77		-	1.927	8.1	1.772	0.1	1.849	4.3
399	[99]		1.78		-	2.027	12.2	1.777	-0.2	1.902	6.4
400	[99]		1.74		-	2.05	15.1	1.787	2.6	1.918	9.3
401	[99]		1.71		-		-	1.683	-1.6	-	-
402	[99]		1.65		-	1.818	9.2	1.649	-0.1	1.734	4.8
403	[99]		1.50		-	1.827	17.9	1.509	0.6	1.668	10.1
404	[99]		1.67		-	1.992	16.2	1.678	0.5	1.835	9
405	[99]		1.71		-	1.873	8.7	1.745	2	1.809	5.5

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
406	[99]		1.65		-	1.92	14.1	1.611	-2.4	1.765	6.5
407	[99]		1.67		-	1.805	7.5	1.676	0.4	1.74	4
408	[99]		1.53		-	1.92	20.3	1.552	1.4	1.736	11.9
409	[99]		1.59		-	1.818	12.5	1.659	4.2	1.739	8.6
410	[99]		1.68		-	1.992	15.7	1.678	-0.1	1.835	8.4
411	[99]		1.69		-	1.873	9.8	1.735	2.6	1.804	6.3
412	[99]		1.70	1.443	-17.8	1.938	12.3	1.674	-1.6	1.558	-9.1
413	[99]		1.63	1.384	-17.8	2.005	18.7	1.608	-1.4	1.496	-9
414	[99]		1.77		-	1.914	7.5	1.788	1	1.851	4.4
415	[99]		1.76		-	2.045	13.9	1.731	-1.7	1.888	6.8
416	[99]		1.84		-	1.907	3.5	1.791	-2.7	1.849	0.5
417	[99]		1.71	1.443	-18.5	1.938	11.8	1.674	-2.2	1.558	-9.8
418	[99]		1.81	1.544	-17.2	1.971	8.2	1.453	-24.6	1.498	-20.8
419	[99]		1.78	1.544	-15.3	1.971	9.7	1.724	-3.2	1.634	-8.9

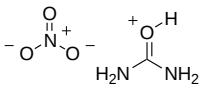
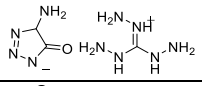
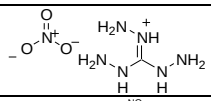
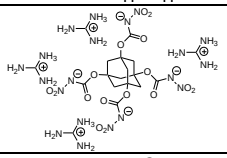
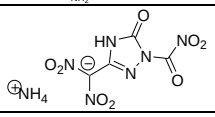
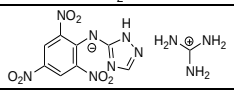
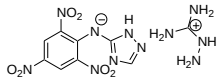
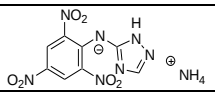
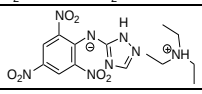
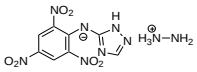
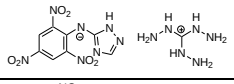
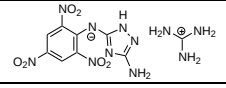
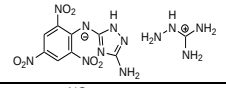
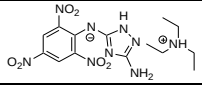
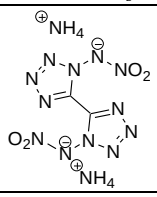
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
420	[99]		1.83		-	2.08	12	1.753	-4.4	1.917	4.5
421	[99]		1.86		-	1.958	5	1.824	-2	1.891	1.6
422	[99]		1.81	1.473	-22.9	2.031	10.9	1.741	-4	1.607	-12.6
423	[99]		1.58		-	2.009	21.4	1.589	0.6	1.799	12.2
424	[99]		1.66		-	1.825	9	1.614	-2.9	1.72	3.5
425	[99]		1.66		-	1.892	12.3	1.663	0.2	1.777	6.6
426	[99]		1.69		-	1.927	12.3	1.753	3.6	1.84	8.2
427	[99]		1.71		-	1.919	10.9	1.699	-0.6	1.809	5.5
428	[99]		1.81		-	1.966	7.9	1.785	-1.4	1.875	3.5
429	[99]		1.72		-	1.919	10.4	1.699	-1.2	1.809	4.9
430	[100]		1.68		-		-	1.67	-0.6	-	-
431	[100]		1.65		-		-	1.648	-0.1	-	-
432	[101]		1.596		-		-	1.685	5.3	-	-

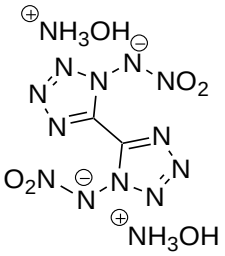
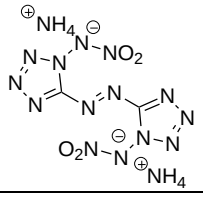
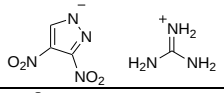
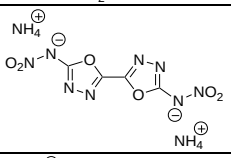
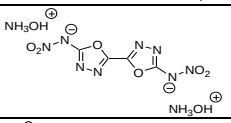
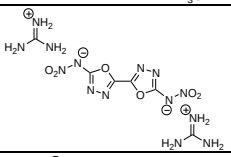
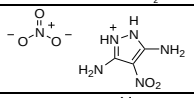
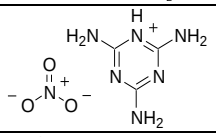
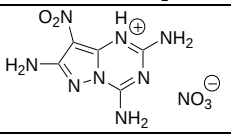
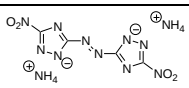
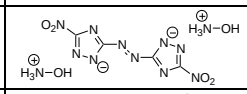
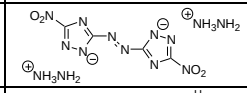
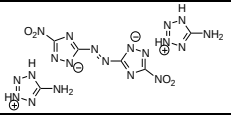
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
433	[101]		1.863		-	2.013	7.5	1.883	1.1	1.948	4.4
434	[101]		1.908		-	1.869	-2.1	1.822	-4.7	1.845	-3.4
435	[101]		1.932		-	1.92	-0.6	1.891	-2.2	1.905	-1.4
453	[102]		1.99		-	1.981	-0.5	1.849	-7.6	1.915	-3.9
454	[103]		1.79		-	2.107	15	1.893	5.4	2	10.5
460	[26]		1.53		-	1.364	-12.2	1.547	1.1	1.456	-5.1
461	[38]		1.82		-	1.744	-4.4	1.726	-5.4	1.735	-4.9
462	[38]		1.62		-	1.764	8.2	1.677	3.4	1.72	5.8
463	[24]		1.441		-		-	1.523	5.4	-	-
465	[105]		1.82		-	1.863	2.3	1.884	3.4	1.873	2.8
466	[105]		1.84		-	1.874	1.8	1.853	0.7	1.864	1.3
467	[105]		1.79		-	1.87	4.3	1.84	2.7	1.855	3.5

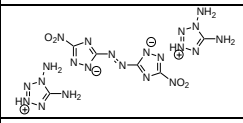
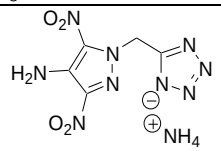
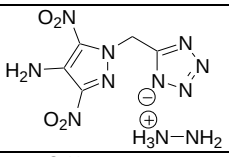
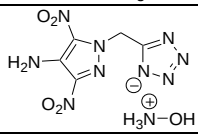
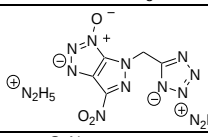
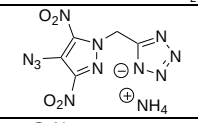
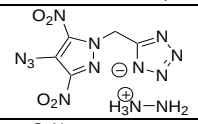
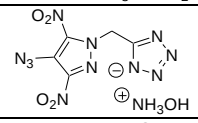
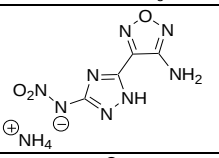
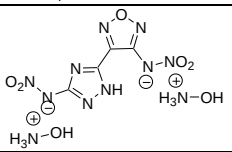
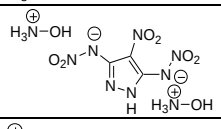
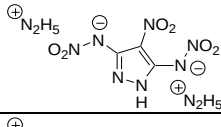
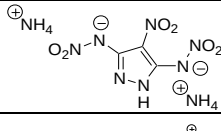
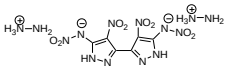
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
468	[105]		1.83		-	1.908	4.1	1.839	0.5	1.873	2.3
469	[105]		1.71	1.443	-18.5	2.006	14.8	1.699	-0.6	1.571	-8.8
470	[105]		1.68	1.357	-23.8		-	1.652	-1.7	1.504	-11.7
471	[47]		1.69		-	1.717	1.6	1.668	-1.3	1.692	0.1
472	[47]		1.62		-	1.618	-0.1	1.567	-3.4	1.593	-1.7
473	[47]		1.54		-	1.478	-4.2	1.472	-4.6	1.475	-4.4
474	[106]		1.63		-	2.075	21.4	1.681	3	1.825	10.7
478	[107]		1.62	1.311	-23.6	2.147	24.5	1.551	-4.4	1.67	3
479	[107]		1.69		-	1.955	13.6	1.764	4.2	1.86	9.1
480	[108]		1.69		-	1.744	3.1	1.679	-0.7	1.712	1.3
481	[109]		1.78		-	1.744	-2.1	1.679	-6	1.712	-4
482	[110]		1.81		-	1.785	-1.4	1.851	2.2	1.818	0.4

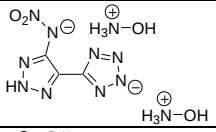
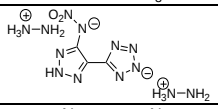
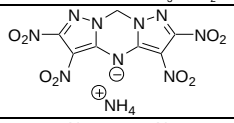
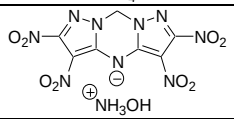
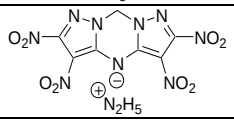
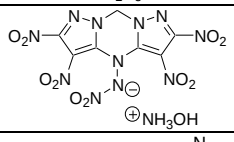
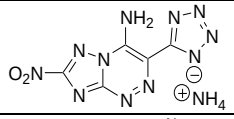
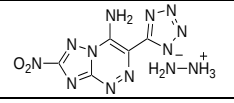
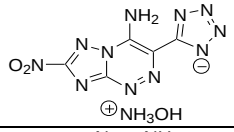
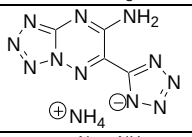
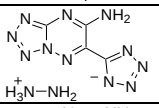
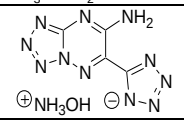
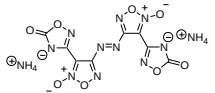
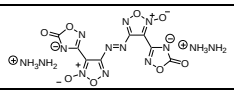
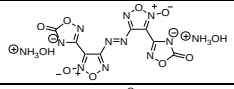
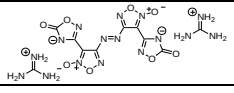
2.4.3 The densities of ionic compounds

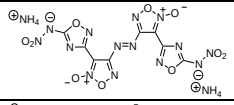
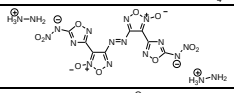
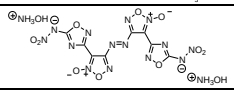
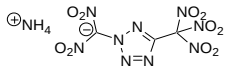
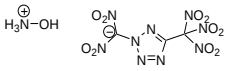
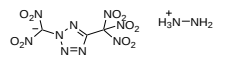
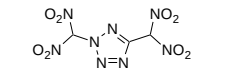
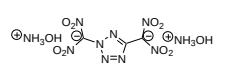
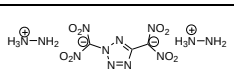
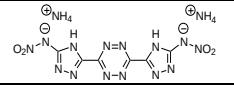
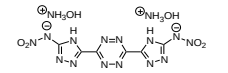
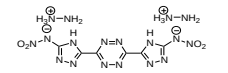
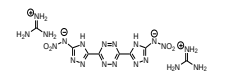
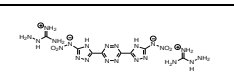
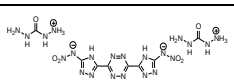
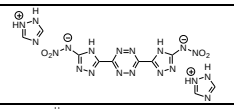
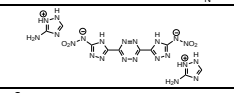
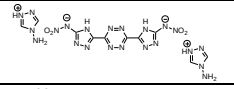
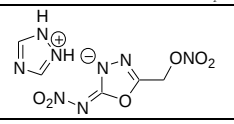
Table 75. Table summarizing the structural formulae, empirical formulae and the densities of the ionic compounds.

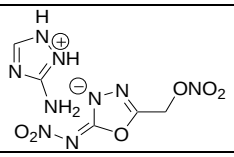
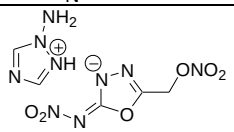
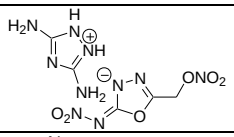
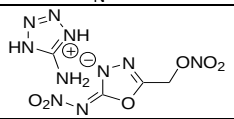
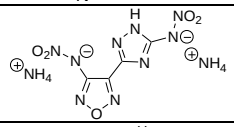
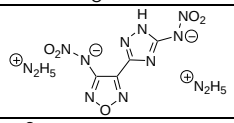
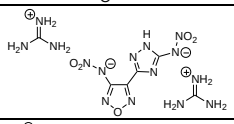
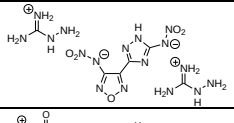
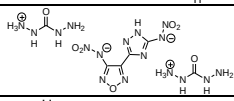
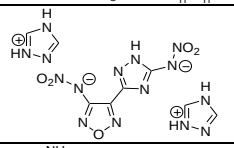
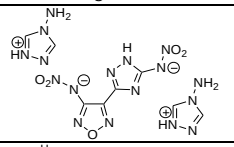
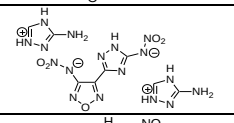
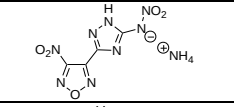
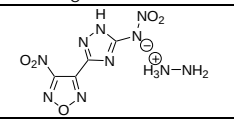
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
v	[43]		1.655	1.729	4.3	1.709	3.2	1.719	3.7
52	[45]		1.569	1.463	-7.2	1.555	-0.9	1.509	-4
53	[38]		1.509	1.59	5.1	1.714	12	1.652	8.7
76	[49]		1.54	1.551	0.7	1.561	1.3	1.556	1
93	[52]		1.82	1.82	0	1.827	0.4	1.824	0.2
99	[55]		1.666	1.657	-0.5	1.652	-0.8	1.655	-0.7
100	[55]		1.8	1.648	-9.2	1.66	-8.4	1.654	-8.8
101	[55]		1.84	1.682	-9.4	1.651	-11.4	1.667	-10.4
102	[55]		1.53	1.474	-3.8	1.384	-10.5	1.429	-7.1
103	[55]		1.62	1.672	3.1	1.659	2.4	1.665	2.7
104	[55]		1.59	1.634	2.7	1.673	5	1.653	3.8
106	[55]		1.59	1.648	3.5	1.667	4.6	1.657	4
107	[55]		1.66	1.641	-1.2	1.674	0.8	1.657	-0.2
108	[55]		1.5	1.473	-1.8	1.402	-7	1.438	-4.3
110	[56]		1.795	1.724	-4.1	1.705	-5.3	1.715	-4.7

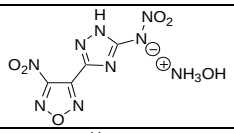
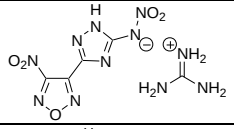
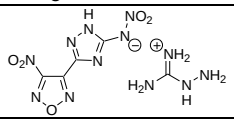
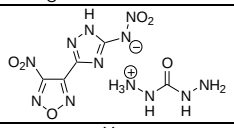
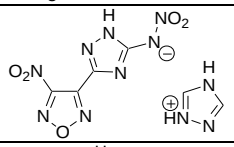
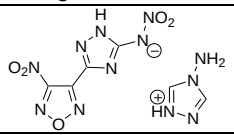
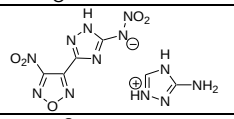
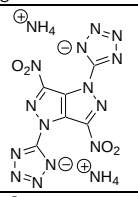
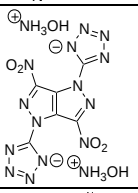
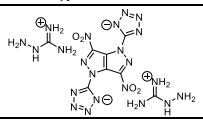
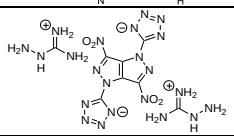
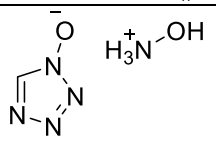
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarzionic	Deviation Keshavarzionic [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybridi [%]
111	[56]		1.842	1.766	-4.3	1.751	-5.2	1.758	-4.8
112	[56]		1.753	1.736	-1	1.675	-4.7	1.706	-2.8
122	[37]		1.63	1.669	2.3	1.68	3	1.675	2.7
124	[58]		1.95	1.728	-12.8	1.693	-15.2	1.711	-14
125	[58]		1.92	1.77	-8.5	1.725	-11.3	1.748	-9.8
126	[58]		1.79	1.67	-7.2	1.686	-6.2	1.678	-6.7
133	[62]		1.76	1.732	-1.6	1.852	5	1.792	1.8
134	[62]		1.65	1.639	-0.7	1.684	2	1.661	0.7
135	[62]		1.82	1.817	-0.2	1.816	-0.2	1.817	-0.2
157	[66]		1.76	1.693	-4	1.614	-9	1.654	-6.4
158	[66]		1.82	1.739	-4.7	1.664	-9.4	1.702	-6.9
159	[66]		1.8	1.671	-7.7	1.634	-10.2	1.652	-9
160	[66]		1.71	1.724	0.8	1.736	1.5	1.73	1.2

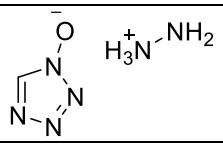
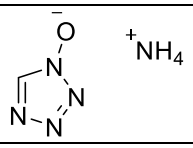
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
161	[66]		1.79	1.706	-4.9	1.744	-2.6	1.725	-3.8
175	[69]		1.68	1.669	-0.7	1.659	-1.3	1.664	-1
176	[69]		1.65	1.812	8.9	1.668	1.1	1.74	5.2
177	[69]		1.75	1.695	-3.2	1.685	-3.9	1.69	-3.6
178	[69]		1.69	1.604	-5.4	1.658	-1.9	1.631	-3.6
180	[69]		1.64	1.725	4.9	1.657	1	1.691	3
181	[69]		1.72	1.712	-0.5	1.665	-3.3	1.688	-1.9
182	[69]		1.76	1.746	-0.8	1.659	-6.1	1.703	-3.3
202	[73]		1.68	1.658	-1.3	1.679	-0.1	1.668	-0.7
203	[73]		1.85	1.736	-6.6	1.723	-7.4	1.73	-6.9
204	[74]		1.9	1.757	-8.1	1.757	-8.1	1.757	-8.1
205	[74]		1.87	1.684	-11	1.721	-8.7	1.703	-9.8
206	[74]		1.8	1.71	-5.3	1.707	-5.4	1.708	-5.4
207	[74]		1.85	1.707	-8.4	1.757	-5.3	1.732	-6.8

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrid [%]
208	[74]		1.82	1.672	-8.9	1.644	-10.7	1.658	-9.8
209	[74]		1.71	1.588	-7.7	1.608	-6.3	1.598	-7
213	[75]		1.82	1.775	-2.5	1.836	0.9	1.805	-0.8
214	[75]		1.86	1.791	-3.9	1.853	-0.4	1.822	-2.1
215	[75]		1.83	1.762	-3.9	1.791	-2.2	1.776	-3
218	[75]		1.87	1.821	-2.7	1.897	1.4	1.859	-0.6
233	[80]		1.811	1.674	-8.2	1.676	-8.1	1.675	-8.1
234	[80]		1.855	1.662	-11.6	1.685	-10.1	1.673	-10.9
235	[80]		1.859	1.701	-9.3	1.678	-10.8	1.69	-10
236	[80]		1.725	1.615	-6.8	1.608	-7.3	1.611	-7.1
237	[80]		1.742	1.605	-8.5	1.622	-7.4	1.614	-7.9
238	[80]		1.751	1.651	-6.1	1.614	-8.5	1.633	-7.2
246	[84]		1.65	1.743	5.3	1.762	6.4	1.752	5.8
247	[84]		1.71	1.723	0.8	1.768	3.3	1.746	2.1
248	[84]		1.72	1.773	3	1.794	4.1	1.784	3.6
249	[84]		1.65	1.695	2.7	1.744	5.4	1.72	4.1

		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarzionic	Deviation Keshavarzionic [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybridi [%]
251	[84]		1.66	1.782	6.8	1.778	6.6	1.78	6.7
252	[84]		1.74	1.763	1.3	1.782	2.4	1.772	1.8
253	[84]		1.72	1.805	4.7	1.804	4.7	1.804	4.7
255	[85]		1.79	1.884	5	1.896	5.6	1.89	5.3
256	[85]		1.92	1.896	-1.3	1.912	-0.4	1.896	-1.3
257	[85]		1.81	1.866	3	1.904	4.9	1.895	4.5
258	[85]		1.92	1.964	2.2	1.881	-2.1	1.922	0.1
259	[85]		1.91	1.814	-5.3	1.82	-4.9	1.817	-5.1
260	[85]		1.83	1.751	-4.5	1.787	-2.4	1.769	-3.4
274	[91]		1.79	1.674	-6.9	1.64	-9.1	1.657	-8
275	[91]		1.81	1.711	-5.8	1.645	-10	1.678	-7.9
276	[91]		1.78	1.657	-7.4	1.654	-7.6	1.655	-7.6
277	[91]		1.84	1.636	-12.5	1.644	-11.9	1.64	-12.2
278	[91]		1.79	1.624	-10.2	1.656	-8.1	1.64	-9.1
279	[91]		1.82	1.657	-9.8	1.678	-8.5	1.667	-9.2
280	[91]		1.85	1.677	-10.3	1.676	-10.4	1.676	-10.4
281	[91]		1.84	1.664	-10.6	1.697	-8.4	1.68	-9.5
282	[91]		1.85	1.664	-11.2	1.686	-9.7	1.675	-10.4
371	[98]		1.772	1.748	-1.4	1.721	-3	1.735	-2.1

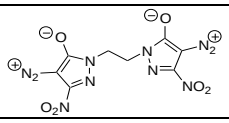
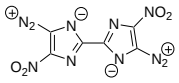
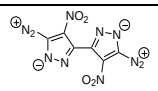
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarzionic	Deviation Keshavarzionic [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
372	[98]		1.78	1.733	-2.7	1.717	-3.7	1.725	-3.2
373	[98]		1.802	1.733	-4	1.707	-5.6	1.72	-4.8
374	[98]		1.814	1.719	-5.5	1.733	-4.7	1.726	-5.1
375	[98]		1.796	1.768	-1.6	1.709	-5.1	1.739	-3.3
436	[101]		1.822	1.691	-7.7	1.676	-8.7	1.683	-8.3
437	[101]		1.834	1.669	-9.9	1.691	-8.5	1.68	-9.2
438	[101]		1.659	1.641	-1.1	1.673	0.8	1.657	-0.1
439			1.679	1.627	-3.2	1.685	0.4	1.656	-1.4
440	[101]		1.687	1.665	-1.3	1.71	1.3	1.688	0.1
441			1.78	1.691	-5.3	1.711	-4	1.701	-4.6
442	[101]		1.761	1.674	-5.2	1.721	-2.3	1.698	-3.7
443	[101]		1.752	1.674	-4.7	1.735	-1	1.704	-2.8
444	[101]		1.815	1.763	-2.9	1.761	-3.1	1.762	-3
445	[101]		1.847	1.746	-5.8	1.766	-4.6	1.756	-5.2

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrid [%]	
446	[101]		1.844	1.785	-3.3	1.757	-5	1.771	-4.1	
447	[101]		1.677	1.722	2.6	1.746	4	1.734	3.3	
448	[101]		1.67	1.709	2.3	1.751	4.6	1.73	3.5	
449	[101]		1.676	1.73	3.1	1.765	5	1.748	4.1	
450	[101]		1.72	1.751	1.8	1.77	2.8	1.76	2.3	
451	[101]		1.748	1.737	-0.6	1.774	1.5	1.756	0.5	
452	[101]		1.716	1.737	1.2	1.784	3.8	1.76	2.5	
455	[103]		1.69	1.705	0.9	1.724	2	1.715	1.5	
456	[103]		1.61	1.74	7.5	1.76	8.5	1.75	8	
457	[103]		1.75	1.648	-6.2	1.72	-1.7	1.684	-3.9	
458	[103]		1.64	1.648	0.5	1.72	4.7	1.684	2.6	
475	[106]		1.67	1.646	-1.5	1.634	-2.2	1.785	6.4	1.67

		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]	
476	[106]		1.6	1.553	-3	1.594	-0.4	1.574	-1.7	1.6
477	[106]		1.4	1.568	10.7	1.562	10.4	1.574	11.1	1.4

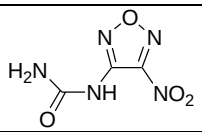
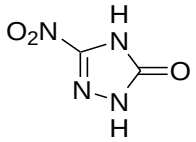
2.4.4 The densities of zwitterionic compounds

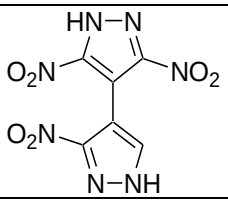
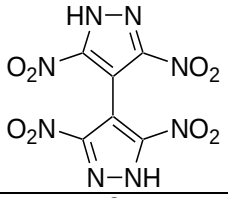
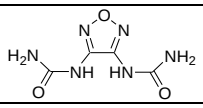
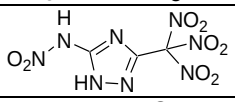
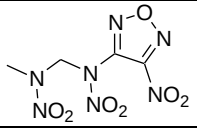
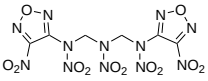
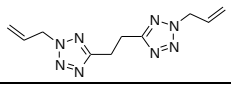
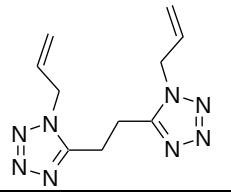
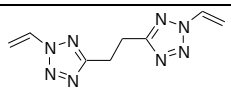
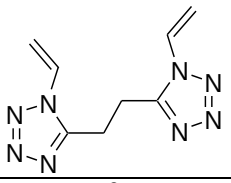
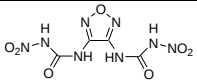
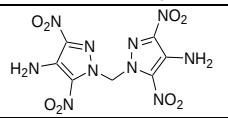
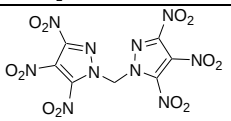
Table 76. Table summarizing the structural formulae, empirical formulae and the densities of the zwitterionic compounds.

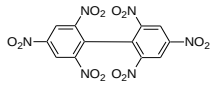
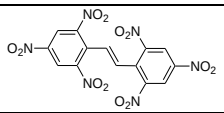
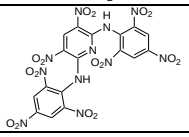
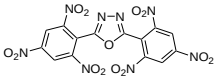
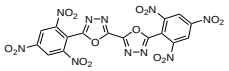
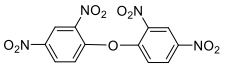
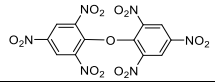
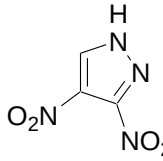
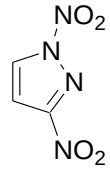
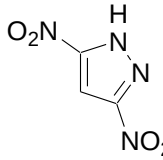
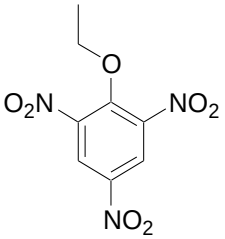
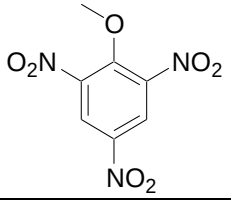
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic	ρ_0 [g/cm^3] Keshavarz-other	Deviation Keshavarz other	ρ_0 [g/cm^3] Holden	Deviation Holden	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrid
185	[70]		1.72	1.765	2.5	1.926	10.7	1.724	0.2	1.805	4.7
195	[72]		1.83	1.829	-0.1	2.112	13.4	1.757	-4.2	1.899	3.6
196	[72]		1.85	1.829	-1.1	2.112	12.4	1.757	-5.3	1.899	2.6

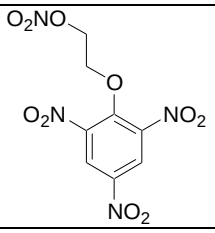
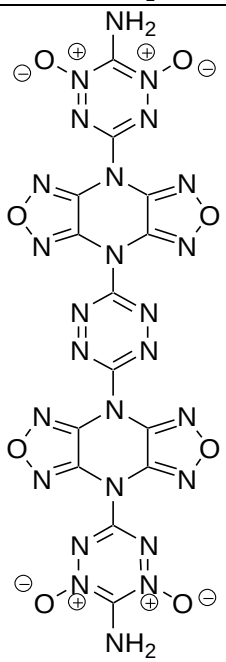
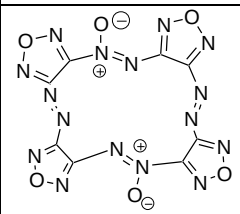
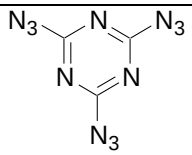
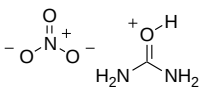
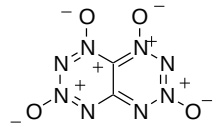
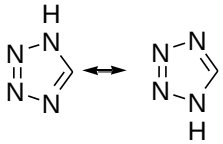
2.4.5 The densities of aromatic compounds

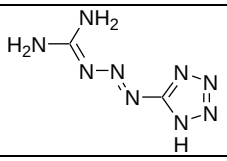
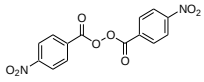
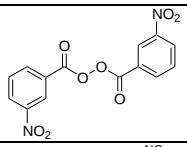
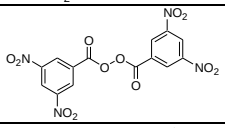
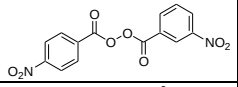
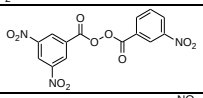
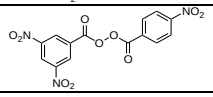
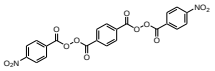
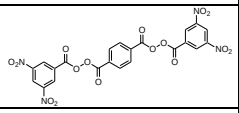
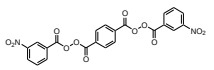
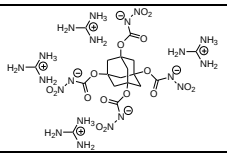
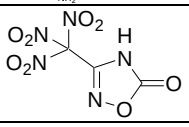
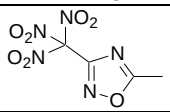
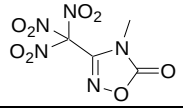
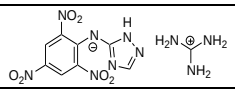
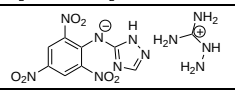
Table 77. Table summarizing the structural formulae, empirical formulae and the densities of the aromatic compounds.

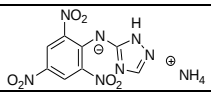
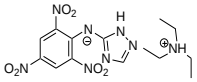
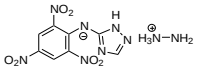
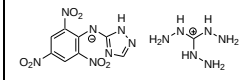
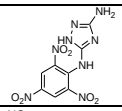
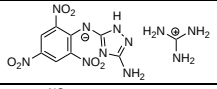
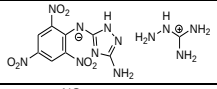
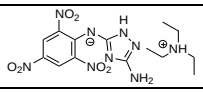
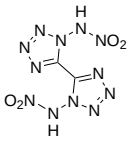
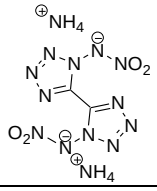
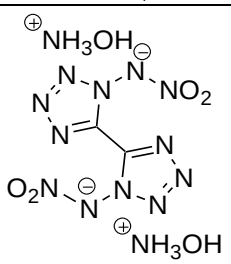
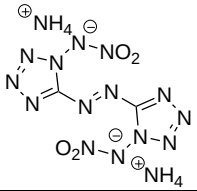
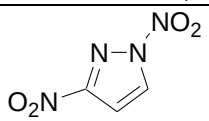
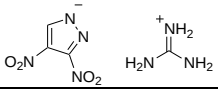
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4	[25]		1.68		-		-	1.862	9.8	1.811	7.2	1.837	8.5
5	[23] [26]		1.916		-		-	1.9	-0.8	1.882	-1.8	1.891	-1.3

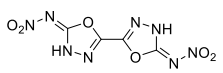
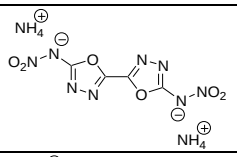
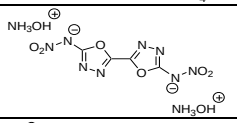
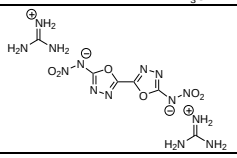
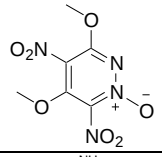
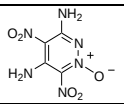
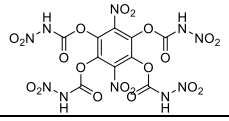
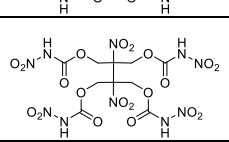
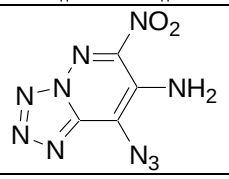
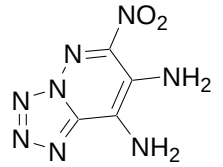
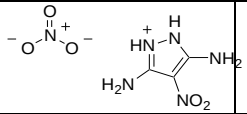
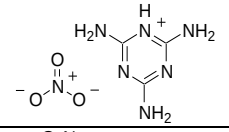
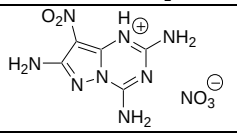
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6	[27]		**1.855**		-		-	**1.897**	**2.2**	**1.854**	**-0.1**	**1.876**	**1.1**
7	[27]		**1.820**		-		-	**1.94**	**6.2**	**1.927**	**5.6**	**1.933**	**5.8**
8	[25]		**1.95**		-		-	**1.742**	**-11.9**	**1.697**	**-14.9**	**1.72**	**-13.4**
9	[28]		**1.91**		-		-	**2.064**	**7.5**	**1.957**	**2.4**	**2.01**	**5**
10	[29]		**1.74**		-		-	**1.921**	**9.4**	**1.767**	**1.5**	**1.844**	**5.6**
11	[29]		**1.90**		-		-	**1.932**	**1.7**	**1.884**	**-0.8**	**1.908**	**0.4**
12	[30]		**1.2**		-		-		-	**1.255**	**4.4**	-	-
13	[30]		**1.2**		-		-		-	**1.255**	**4.4**	-	-
14	[30]		**1.4**		-		-		-	**1.324**	**-5.7**	-	-
15	[30]		**1.4**		-		-		-	**1.324**	**-5.7**	-	-
16	[25]		**1.87**		-		-	**1.892**	**1.2**	**1.875**	**0.3**	**1.883**	**0.7**
17	[31]		**1.802**		-		-	**1.858**	**3**	**1.838**	**2**	**1.848**	**2.5**
18	[31]		**1.934**		-		-	**1.941**	**0.4**	**1.933**	**-0.1**	**1.937**	**0.2**

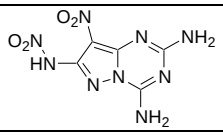
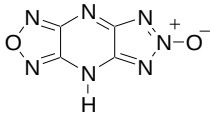
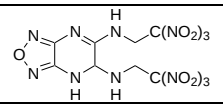
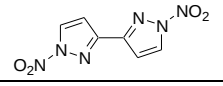
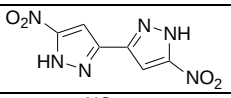
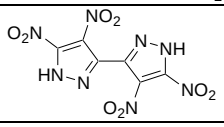
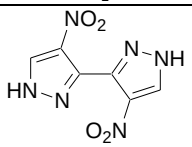
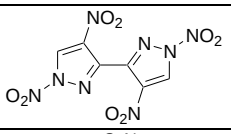
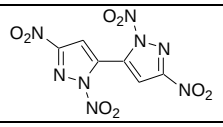
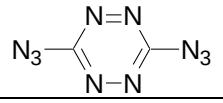
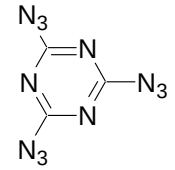
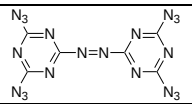
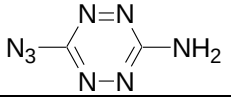
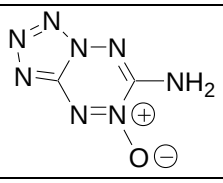
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19	[32] [26]		**1.694**		-		-	**1.797**	**5.7**	**1.776**	**4.6**	**1.786**	**5.2**
20	[32]		**1.74**		-		-	**1.749**	**0.5**	**1.704**	**-2.1**	**1.727**	**-0.8**
21	[32]		**1.757**		-		-	**1.813**	**3.1**	**1.776**	**1.1**	**1.794**	**2.1**
22	[32] [33]		**1.77**		-		-	**1.831**	**3.3**	**1.779**	**0.5**	**1.805**	**1.9**
23	[32]		**1.837**		-		-	**1.857**	**1.1**	**1.781**	**-3.1**	**1.819**	**-1**
24	[34]		**1.689**		-		-	**1.606**	**-5.2**	**1.667**	**-1.3**	**1.637**	**-3.2**
25	[34]		**1.70**		-		-	**1.71**	**0.6**	**1.792**	**5.1**	**1.746**	**2.6**
36	[37]		**1.79**		-		-	**1.874**	**4.5**	**1.849**	**3.2**	**1.861**	**3.8**
37	[37]		**1.76**		-		-	**1.874**	**6.1**	**1.842**	**4.5**	**1.858**	**5.3**
38	[37]		**1.78**		-		-	**1.874**	**5**	**1.849**	**3.7**	**1.861**	**4.4**
39	[26]		**1.554**		-		-	**1.59**	**2.3**	**1.59**	**2.3**	**1.59**	**2.3**
40	[38]		**1.7**		-		-	**1.665**	**-2.1**	**1.665**	**-2.1**	**1.665**	**-2.1**

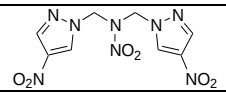
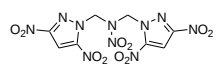
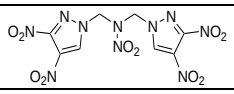
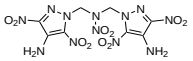
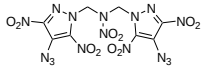
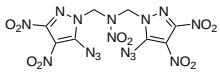
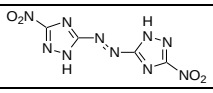
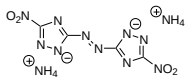
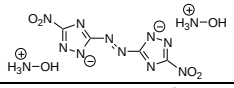
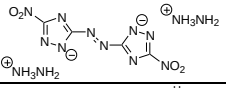
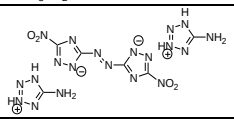
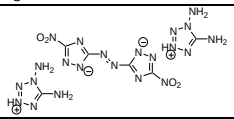
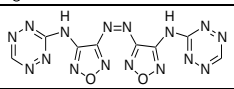
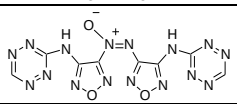
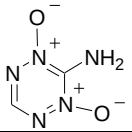
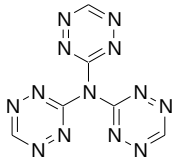
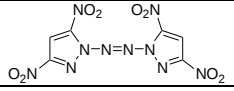
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41	[38]		**1.723**		-		-	**1.684**	**-2.3**	**1.707**	**-0.9**	**1.696**	**-1.6**
42	[38]		**1.903**		-		-		-	**1.893**	**-0.5**	-	-
43	[38] [39]		**1.761**		-		-		-	**1.786**	**1.4**	-	-
47	[24] [40]		**1.73**		-		-		-	**1.563**	**-10.7**	-	-
50	[43]		**1.655**	**1.729**	**4.3**		-		-	**1.79**	**7.5**	**1.719**	**3.7**
57	[46]		**1.96**		-		-		-	**2.063**	**5**	-	-
58	[38]		**1.529**		-		-		-	**1.582**	**3.4**	-	-

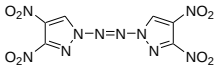
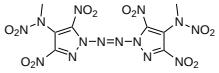
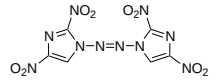
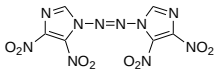
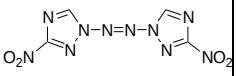
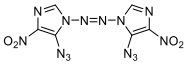
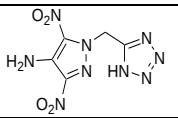
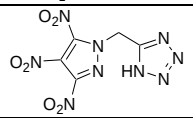
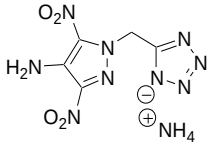
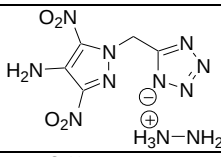
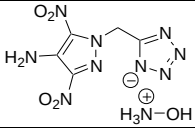
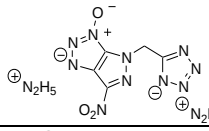
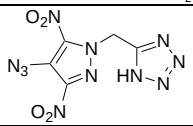
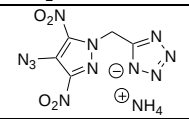
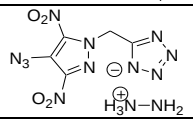
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63	[38]		**1.64**		-		-		-	**1.538**	**-6.6**	**1.768**	**7.2**
67	[48]		**1.61**		-		-	**1.566**	**-2.8**	**1.547**	**-4.1**	**1.556**	**-3.5**
68	[48]		**1.608**		-		-	**1.566**	**-2.7**	**1.547**	**-3.9**	**1.556**	**-3.3**
69	[48]		**1.718**		-		-	**1.701**	**-1**	**1.686**	**-1.9**	**1.694**	**-1.4**
70	[48]		**1.67**		-		-	**1.566**	**-6.6**	**1.547**	**-8**	**1.556**	**-7.3**
71	[48]		**1.70**		-		-	**1.642**	**-3.5**	**1.622**	**-4.8**	**1.632**	**-4.2**
72	[48]		**1.69**		-		-	**1.642**	**-2.9**	**1.622**	**-4.2**	**1.632**	**-3.6**
73	[48]		**1.46**		-		-	**1.545**	**5.5**	**1.532**	**4.7**	**1.538**	**5.1**
74	[48]		**1.51**		-		-	**1.646**	**8.3**	**1.631**	**7.4**	**1.639**	**7.9**
75	[48]		**1.45**		-		-	**1.545**	**6.1**	**1.532**	**5.4**	**1.538**	**5.7**
76	[49]		**1.54**	**1.551**	**0.7**		-		-	**1.561**	**1.3**	**1.556**	**1**
96	[54]		**1.95**		-		-	**1.92**	**-1.6**	**1.972**	**1.1**	**1.946**	**-0.2**
97	[54]		**1.84**		-		-	**1.834**	**-0.3**	**1.784**	**-3.1**	**1.809**	**-1.7**
98	[54]		**1.80**		-		-	**1.829**	**1.6**	**1.833**	**1.8**	**1.831**	**1.7**
99	[55]		**1.666**	**1.657**	**-0.5**		-		-	**1.652**	**-0.8**	**1.655**	**-0.7**
100	[55]		**1.80**	**1.648**	**-9.2**		-		-	**1.66**	**-8.4**	**1.654**	**-8.8**

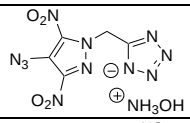
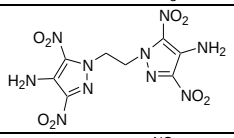
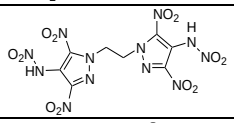
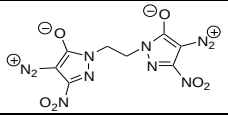
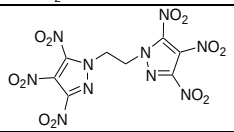
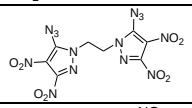
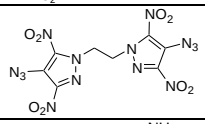
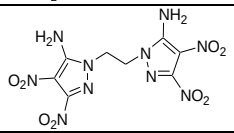
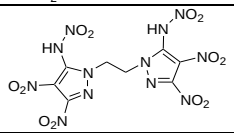
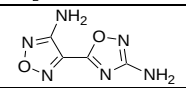
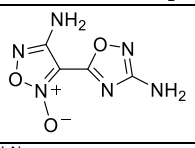
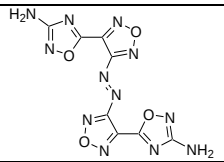
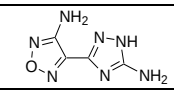
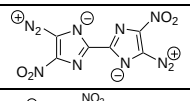
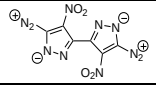
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101	[55]		**1.84**	**1.682**	**-9.4**		-		-	**1.651**	**-11.4**	**1.667**	**-10.4**
102	[55]		**1.53**	**1.474**	**-3.8**		-		-	**1.384**	**-10.5**	**1.429**	**-7.1**
103	[55]		**1.62**	**1.672**	**3.1**		-		-	**1.659**	**2.4**	**1.665**	**2.7**
104	[55]		**1.59**	**1.634**	**2.7**		-		-	**1.673**	**5**	**1.653**	**3.8**
105	[55]		**1.85**		-		-	**1.989**	**7**	**1.746**	**-6**	**1.868**	**1**
106	[55]		**1.59**	**1.648**	**3.5**		-		-	**1.667**	**4.6**	**1.657**	**4**
107	[55]		**1.66**	**1.641**	**-1.2**		-		-	**1.674**	**0.8**	**1.657**	**-0.2**
108	[55]		**1.50**	**1.473**	**-1.8**		-		-	**1.402**	**-7**	**1.438**	**-4.3**
109	[56]		**1.930**		-		-	**2.134**	**9.6**	**1.921**	**-0.5**	**2.027**	**4.8**
110	[56]		**1.795**	**1.724**	**-4.1**		-		-	**1.705**	**-5.3**	**1.715**	**-4.7**
111	[56]		**1.842**	**1.766**	**-4.3**		-		-	**1.751**	**-5.2**	**1.758**	**-4.8**
112	[56]		**1.753**	**1.736**	**-1**		-		-	**1.675**	**-4.7**	**1.706**	**-2.8**
120	[37]		1.76		-		-	1.874	**6.1**	1.842	**4.5**	1.858	**5.3**
122	[37]		**1.63**	**1.669**	**2.3**		-		-	**1.68**	**3**	**1.675**	**2.7**

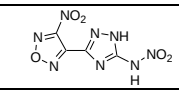
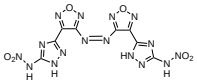
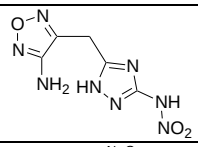
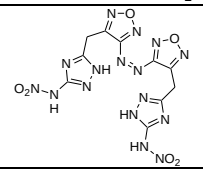
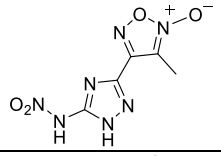
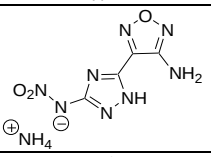
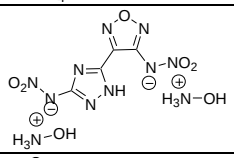
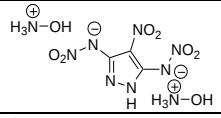
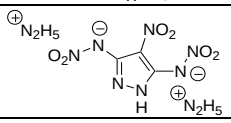
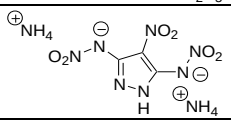
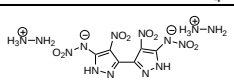
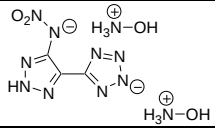
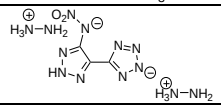
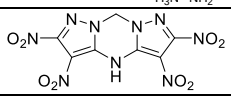
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123	[58]		**1.98**		-		-	1.981	0.1	1.849	-7.1	1.915	-3.4
124	[58]		**1.95**	1.728	-12.8		-		-	1.693	-15.2	1.711	-14
125	[58]		**1.92**	1.77	-8.5		-		-	1.725	-11.3	1.748	-9.8
126	[58]		**1.79**	1.67	-7.2		-		-	1.686	-6.2	1.678	-6.7
127	[59]		**1.59**		-		-	1.764	9.9	1.659	4.2	1.712	7.1
128	[59]		**1.84**		-		-	2.116	13	1.841	0.1	1.978	7
129	[60]		**1.71**		-		-	1.852	7.7	1.924	11.1	1.888	9.4
130	[60]		**1.89**		-		-	1.713	-10.3	1.764	-7.1	1.739	-8.7
131	[61]		**1.82**		-	1.39	-30.9	2.107	13.6	1.749	-4.1	1.57	-15.9
132	[61]		**1.80**		-		-	1.948	7.6	1.766	-1.9	1.857	3.1
133	[62]		**1.76**	1.732	-1.6		-		-	1.852	5	1.792	1.8
134	[62]		**1.65**	1.639	-0.7		-		-	1.684	2	1.661	0.7
135	[62]		**1.82**	1.817	-0.2		-		-	1.816	-0.2	1.817	-0.2

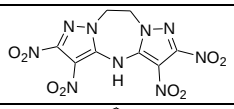
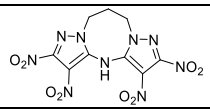
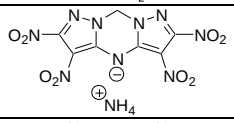
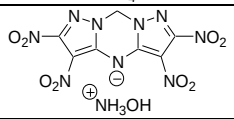
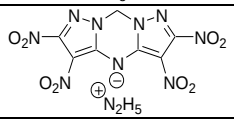
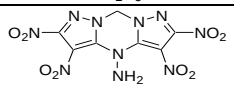
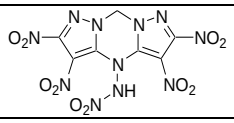
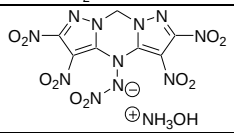
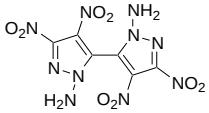
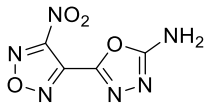
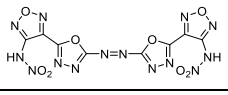
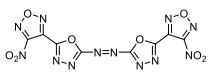
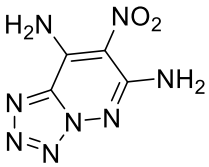
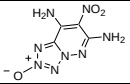
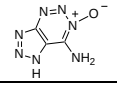
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
136	[62]		**1.89**		-		-		-	**1.825**	**-3.6**	-	-
137	[63]		**1.85**		-		-		-	**1.87**	**1.1**	-	-
138	[63]		**1.80**		-		-	**1.83**	**1.6**	**1.806**	**0.3**	**1.818**	**1**
139	[64]		**1.81**		-		-	**1.836**	**1.4**	**1.751**	**-3.4**	**1.794**	**-0.9**
140	[64]		**1.81**		-		-	**1.836**	**1.4**	**1.759**	**-2.9**	**1.797**	**-0.7**
141	[64]		**1.84**		-		-	**1.94**	**5.2**	**1.927**	**4.5**	**1.933**	**4.8**
142	[64]		**1.83**		-		-	**1.836**	**0.3**	**1.759**	**-4**	**1.797**	**-1.8**
143	[64]		**1.85**		-		-	**1.94**	**4.6**	**1.92**	**3.6**	**1.98**	**6.6**
144	[64]		**1.855**		-		-	**1.94**	**4.4**	**1.92**	**3.4**	**1.98**	**6.3**
145	[40]		**1.62**		-	**1.28**	**-26.6**		-	**1.566**	**-3.4**	**1.423**	**-13.8**
146	[40]		**1.74**		-		-		-	**1.563**	**-11.3**	-	-
147	[40]		**1.67**		-		-		-	**1.481**	**-12.8**	-	-
148	[40]		**1.68**		-		-		-	**1.554**	**-8.1**	-	-
149	[40]		**1.874**		-		-		-	**1.839**	**-1.9**	-	-

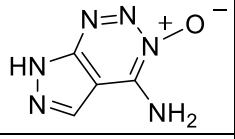
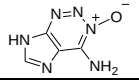
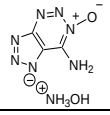
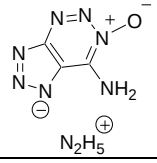
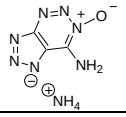
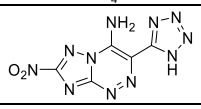
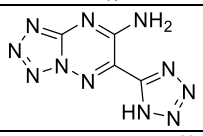
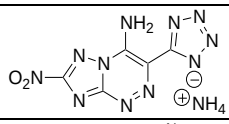
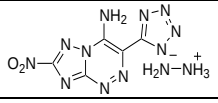
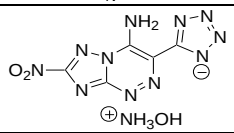
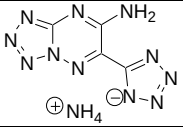
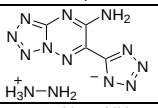
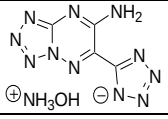
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
150	[65]		**1.69**		-		-	1.745	3.2	1.663	-1.6	1.704	0.8
151	[65]		**1.789**	1.78	-0.5		-	1.847	3.1	1.801	0.7	1.824	1.9
152	[65]		**1.78**		-		-	1.847	3.6	1.801	1.2	1.824	2.4
153	[65]		**1.86**		-		-	1.839	-1.1	1.82	-2.2	1.829	-1.7
154	[65]		**1.83**		-	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6
155	[65]		**1.83**		-	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6
156	[66]		**1.88**		-		-	2.062	8.8	1.795	-4.7	1.928	2.5
157	[66]		**1.76**	1.693	-4		-		-	1.614	-9	1.654	-6.4
158	[66]		**1.82**	1.739	-4.7		-		-	1.664	-9.4	1.702	-6.9
159	[66]		**1.80**	1.671	-7.7		-		-	1.634	-10.2	1.652	-9
160	[66]		**1.71**	1.724	0.8		-		-	1.736	1.5	1.73	1.2
161	[66]		**1.79**	1.706	-4.9		-		-	1.744	-2.6	1.725	-3.8
162	[67]		**1.67**		-		-		-	1.609	-3.8	-	-
163	[67]		**1.75**		-		-		-	1.657	-5.6	-	-
164	[67]		**1.77**		-		-		-	1.786	0.9	-	-
165	[67]		**1.73**		-		-		-	1.517	-14	-	-
166	[68]**4**		**1.81**		-		-	1.983	8.7	1.852	2.3	1.917	5.6

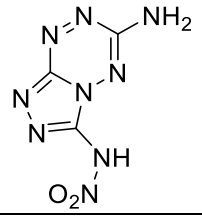
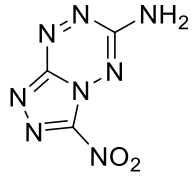
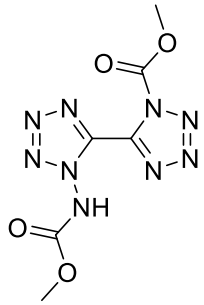
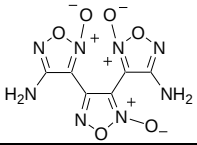
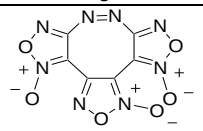
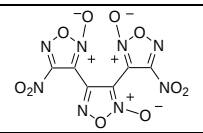
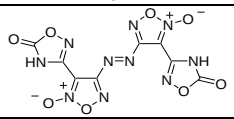
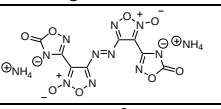
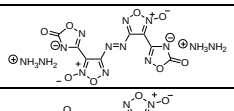
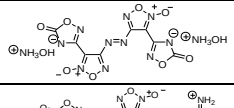
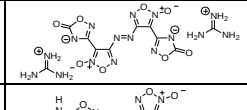
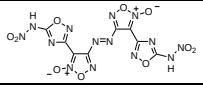
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167	[68]**5**		**1.82**		-		-	1.983	8.2	1.852	1.7	1.917	5.1
168	[68]**6**		**1.80**		-		-	1.911	5.8	1.816	0.9	1.864	3.4
169	[68]**7**		**1.85**		-		-	1.983	6.7	1.852	0.1	1.917	3.5
170	[68]**8**		**1.83**		-		-	1.983	7.7	1.852	1.2	1.917	4.5
171	[68]		**1.80**		-		-	2.062	12.7	1.77	-1.7	1.916	6.1
172	[68]		**1.77**		-	1.47	-20.4		-	1.712	-3.4	1.591	-11.3
173	[69]		**1.83**		-		-	2.08	12	1.753	-4.4	1.917	4.5
174	[69]		**1.86**		-		-	1.958	5	1.824	-2	1.891	1.6
175	[69]		**1.68**	1.669	-0.7		-		-	1.659	-1.3	1.664	-1
176	[69]		**1.65**	1.812	8.9		-		-	1.668	1.1	1.74	5.2
177	[69]		**1.75**	1.695	-3.2		-		-	1.685	-3.9	1.69	-3.6
178	[69]		**1.69**	1.604	-5.4		-		-	1.658	-1.9	1.631	-3.6
179	[69]		**1.812**		-	1.473	-23	2.031	10.8	1.741	-4.1	1.607	-12.8
180	[69]		**1.64**	1.725	4.9		-		-	1.657	1	1.691	3
181	[69]		**1.72**	1.712	-0.5		-		-	1.665	-3.3	1.688	-1.9

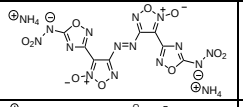
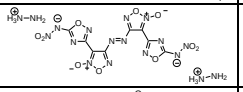
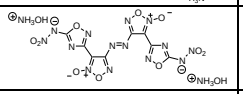
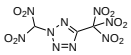
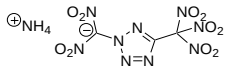
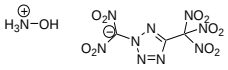
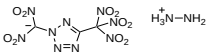
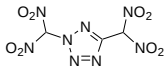
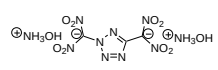
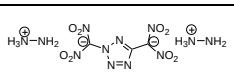
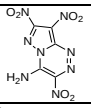
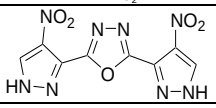
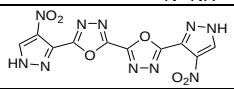
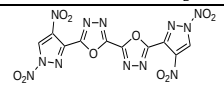
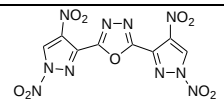
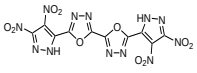
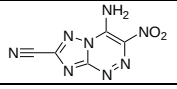
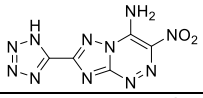
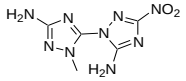
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
182	[69]		**1.76**	1.746	-0.8		-		-	1.659	-6.1	1.703	-3.3
183	[70]		**1.77**		-		-	1.799	1.6	1.768	-0.1	1.784	0.8
184	[70]		**1.84**		-		-	1.877	2	1.862	1.2	1.869	1.6
185	[70]		**1.72**	1.765	2.5		-	1.926	10.7	1.724	0.2	1.805	4.7
186	[70]		**1.84**		-		-	1.887	2.5	1.863	1.2	1.875	1.9
187	[70]		**1.78**		-	1.543	-15.4	1.983	10.2	1.75	-1.7	1.647	-8.1
188	[70]		**1.76**		-	1.543	-14.1	1.983	11.2	1.75	-0.6	1.647	-6.9
189	[70]		**1.75**		-		-	1.799	2.7	1.768	1	1.784	1.9
190	[70]		**1.83**		-		-	1.877	2.5	1.862	1.7	1.869	2.1
191	[71]		**1.680**		-		-		-	1.716	2.1	-	-
192	[71]		**1.788**		-		-		-	1.819	1.7	-	-
193	[71]		**1.652**		-		-		-	1.716	3.7	-	-
194	[71]		**1.716**		-		-		-	1.685	-1.8	-	-
195	[72]		**1.830**	1.829	-0.1		-	2.112	13.4	1.757	-4.2	1.899	3.6
196	[72]		**1.850**	1.829	-1.1		-	2.112	12.4	1.757	-5.3	1.899	2.6

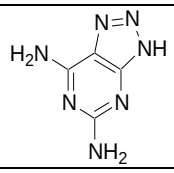
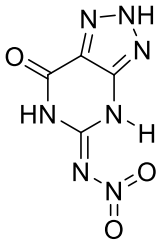
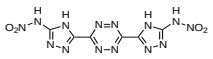
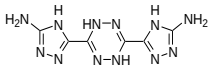
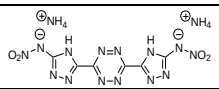
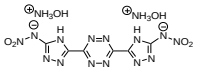
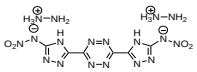
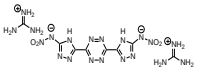
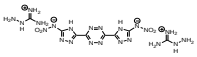
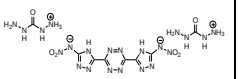
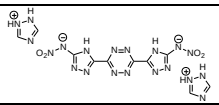
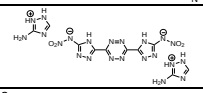
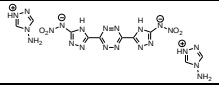
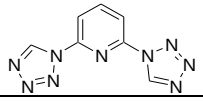
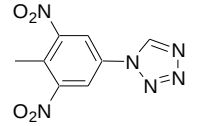
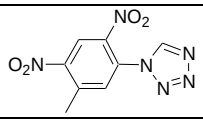
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
197	[73]		**1.851**		-		-	**1.996**	**7.3**	**1.881**	**1.6**	**1.938**	**4.5**
198	[73]		**1.873**		-		-	**2.033**	**7.9**	**1.799**	**-4.1**	**1.916**	**2.2**
199	[73]		**1.695**		-		-	**1.832**	**7.5**	**1.692**	**-0.2**	**1.762**	**3.8**
200	[73]		**1.704**		-		-	**1.924**	**11.4**	**1.692**	**-0.7**	**1.808**	**5.8**
201	[73]		**1.741**		-		-	**1.932**	**9.9**	**1.75**	**0.5**	**1.841**	**5.4**
202	[73]		**1.680**	**1.658**	**-1.3**		-		-	**1.679**	**-0.1**	**1.668**	**-0.7**
203	[73]		**1.850**	**1.736**	**-6.6**		-		-	**1.723**	**-7.4**	**1.73**	**-6.9**
204	[74]		**1.90**	**1.757**	**-8.1**		-		-	**1.757**	**-8.1**	**1.757**	**-8.1**
205	[74]		**1.87**	**1.684**	**-11**		-		-	**1.721**	**-8.7**	**1.703**	**-9.8**
206	[74]		**1.80**	**1.71**	**-5.3**		-		-	**1.707**	**-5.4**	**1.708**	**-5.4**
207	[74]		**1.85**	**1.707**	**-8.4**		-		-	**1.757**	**-5.3**	**1.732**	**-6.8**
208	[74]		**1.82**	**1.672**	**-8.9**		-		-	**1.644**	**-10.7**	**1.658**	**-9.8**
209	[74]		**1.71**	**1.588**	**-7.7**		-		-	**1.608**	**-6.3**	**1.598**	**-7**
210	[75]		**1.895**		-		-	**2.014**	**5.9**	**1.932**	**1.9**	**1.973**	**4**

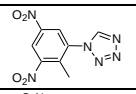
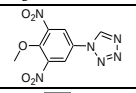
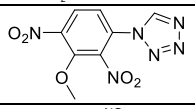
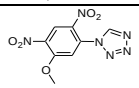
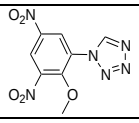
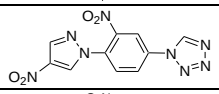
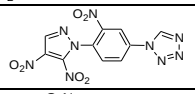
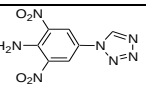
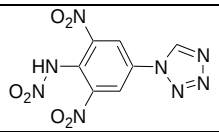
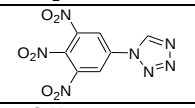
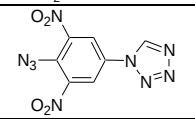
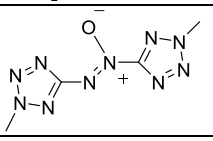
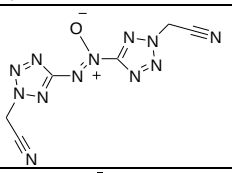
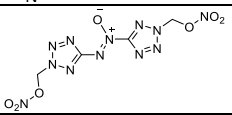
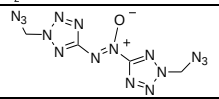
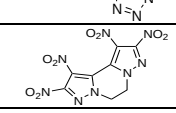
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211	[75]		**1.80**		-		-	**1.949**	**7.6**	**1.847**	**2.5**	**1.898**	**5.2**
212	[75]		**1.760**		-		-	**1.89**	**6.9**	**1.775**	**0.8**	**1.833**	**4**
213	[75]		**1.82**	**1.775**	**-2.5**		-		-	**1.836**	**0.9**	**1.805**	**-0.8**
214	[75]		**1.86**	**1.791**	**-3.9**		-		-	**1.853**	**-0.4**	**1.822**	**-2.1**
215	[75]		**1.83**	**1.762**	**-3.9**		-		-	**1.791**	**-2.2**	**1.776**	**-3**
216	[75]		**1.790**		-		-	**2.005**	**10.7**	**1.929**	**7.2**	**1.967**	**9**
217	[75]		**1.937**		-		-	**2.037**	**4.9**	**1.972**	**1.8**	**2.005**	**3.4**
218	[75]		**1.87**	**1.821**	**-2.7**		-		-	**1.897**	**1.4**	**1.859**	**-0.6**
219	[76]		**1.760** ***1.811@ 173 K***		-		-	**1.922**	**8.4**	**1.921**	**8.4**	**1.922**	**8.4**
220	[77]		**1.747**		-		-	**1.95**	**10.4**	**1.823**	**4.2**	**1.976**	**11.6**
221	[77]		**1.767**		-		-	**2.033**	**13.1**	**1.826**	**3.2**	**1.929**	**8.4**
222	[77]		**1.825**		-		-	**2.056**	**11.2**	**1.824**	**-0.1**	**1.94**	**5.9**
223	[78]		**1.869**		-		-	**1.948**	**4.1**	**1.766**	**-5.8**	**1.857**	**-0.6**
224	[78]		**1.886**		-		-	**2.033**	**7.2**	**1.856**	**-1.6**	**1.945**	**3**
225	[79]		**1.815**		-		-		-	**1.789**	**-1.5**	-	-

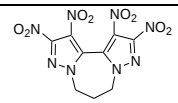
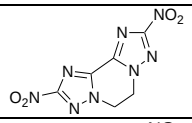
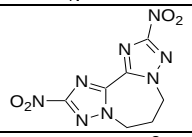
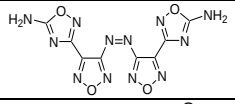
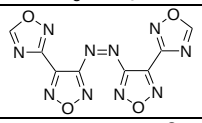
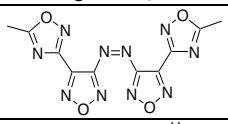
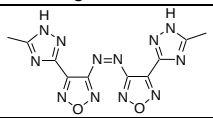
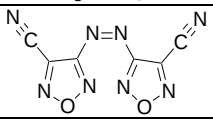
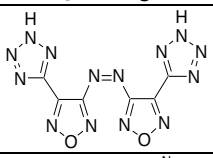
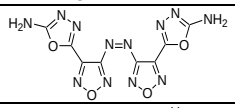
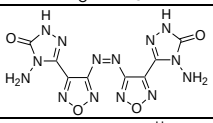
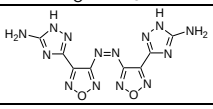
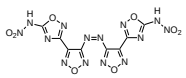
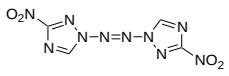
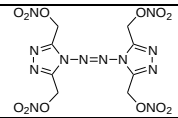
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226	[79]		**1.772**		-		-		-	1.721	-3	-	-
227	[79]		**1.743**		-		-		-	1.721	-1.3	-	-
228	[79]		**1.772**	1.643	-7.9		-		-	1.677	-5.7	-	-
229	[79]		**1.800**	1.584	-13.6		-		-	1.515	-18.8	1.55	-16.1
230	[79]		**1.740**	1.595	-9.1		-		-	1.635	-6.4	1.615	-7.7
231	[80]		**1.873**		-		-	2.067	9.4	1.776	-5.5	1.921	2.5
232	[80]		**1.795**		-		-		-	1.714	-4.7	-	-
233	[80]		**1.811**	1.674	-8.2		-		-	1.676	-8.1	1.675	-8.1
234	[80]		**1.855**	1.662	-11.6		-		-	1.685	-10.1	1.673	-10.9
235	[80]		**1.859**	1.701	-9.3		-		-	1.678	-10.8	1.69	-10
236	[80]		**1.725**	1.615	-6.8		-		-	1.608	-7.3	1.611	-7.1
237	[80]		**1.742**	1.605	-8.5		-		-	1.622	-7.4	1.614	-7.9
238	[80]		**1.751**	1.651	-6.1		-		-	1.614	-8.5	1.633	-7.2

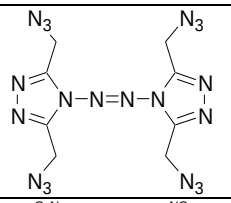
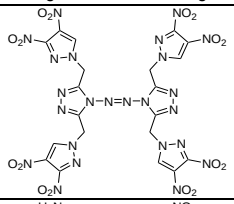
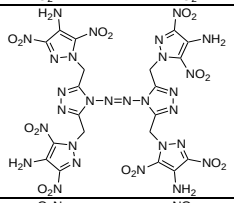
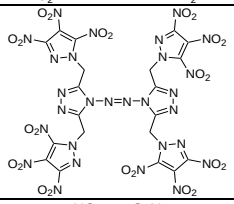
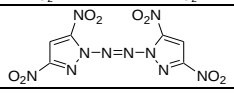
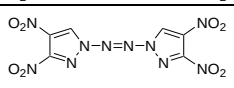
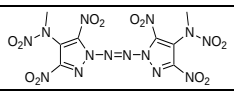
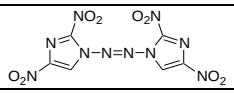
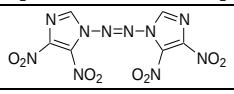
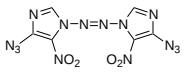
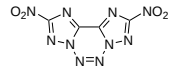
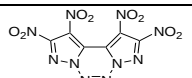
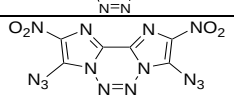
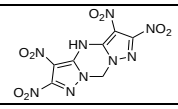
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
239	[81]		**1.79**		-		-	**2.05**	**12.7**	**1.804**	**0.8**	**1.927**	**7.1**
240	[81]		**1.83**		-		-	**1.769**	**-3.4**	**1.8**	**-1.7**	**1.784**	**-2.6**
241	[82]		**1.64**		-		-		-	**1.59**	**-3.1**	-	-
242	[83]		**1.787**		-		-		-	**1.953**	**8.5**	-	-
243	[83]		**1.895**		-		-		-	**2.017**	**6**	**2.076**	**8.7**
244	[83]		**1.914**		-		-		-	**2.062**	**7.2**	-	-
245	[84]		**1.90**		-		-		-	**1.925**	**1.3**	-	-
246	[84]		**1.65**	**1.743**	**5.3**		-		-	**1.762**	**6.4**	**1.752**	**5.8**
247	[84]		**1.71**	**1.723**	**0.8**		-		-	**1.768**	**3.3**	**1.746**	**2.1**
248	[84]		**1.72**	**1.773**	**3**		-		-	**1.794**	**4.1**	**1.784**	**3.6**
249	[84]		**1.65**	**1.695**	**2.7**		-		-	**1.744**	**5.4**	**1.72**	**4.1**
250	[84]		**1.92**		-		-	**2.112**	**9.1**	**2.013**	**4.6**	**2.062**	**6.9**

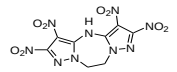
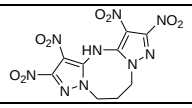
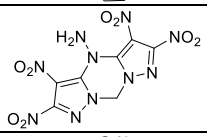
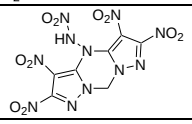
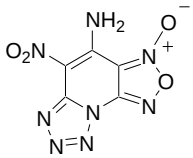
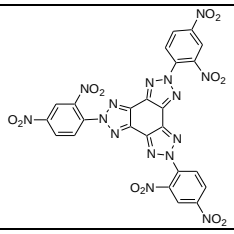
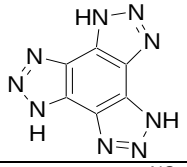
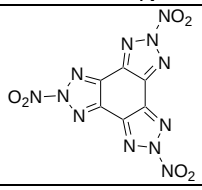
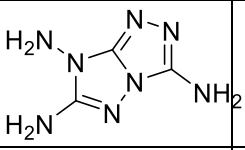
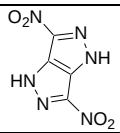
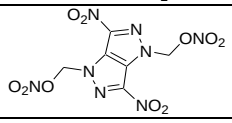
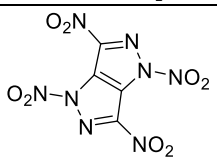
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251	[84]		**1.66**	1.782	6.8		-		-	1.778	6.6	1.78	6.7
252	[84]		**1.74**	1.763	1.3		-		-	1.782	2.4	1.772	1.8
253	[84]		**1.72**	1.805	4.7		-		-	1.804	4.7	1.804	4.7
254	[85]		**1.88**		-		-	1.997	5.9	1.95	3.6	1.974	4.8
255	[85]		**1.79**	1.884	5		-		-	1.896	5.6	1.89	5.3
256	[85]		**1.92**	1.896	-1.3		-		-	1.912	-0.4	1.896	-1.3
257	[85]		**1.81**	1.866	3		-		-	1.904	4.9	1.895	4.5
258	[85]		**1.92**	1.964	2.2		-		-	1.881	-2.1	1.922	0.1
259	[85]		**1.91**	1.814	-5.3		-		-	1.82	-4.9	1.817	-5.1
260	[85]		**1.83**	1.751	-4.5		-		-	1.787	-2.4	1.769	-3.4
261	[86]		**1.90**		-		-	1.971	3.6	1.897	-0.2	1.934	1.8
262	[87]		**1.800**		-		-	1.884	4.5	1.768	-1.8	1.826	1.4
263	[87]		**1.809**		-		-	1.914	5.5	1.773	-2	1.843	1.8
264	[87]		**1.831**		-		-	1.972	7.2	1.903	3.8	1.976	7.3
265	[87]		**1.844**		-		-	1.959	5.9	1.897	2.8	1.92	4
266	[87]		**1.870**		-		-	1.972	5.2	1.885	0.8	1.929	3.1
267	[88]		**1.753**		-		-	2.056	14.7	1.729	-1.4	1.893	7.4
268	[88]		**1.819**		-		-	2.067	12	1.776	-2.4	1.921	5.3
269	[89]		**1.83**		-		-	1.831	0.1	1.657	-10.4	1.744	-4.9

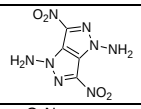
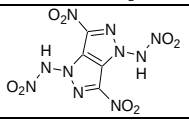
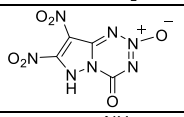
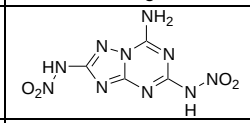
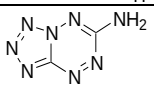
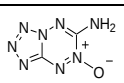
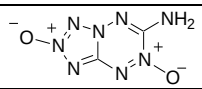
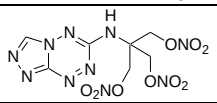
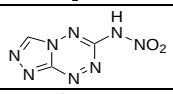
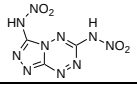
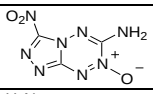
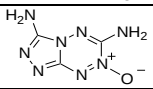
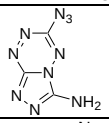
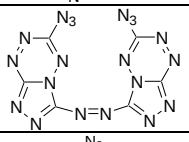
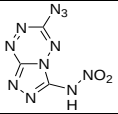
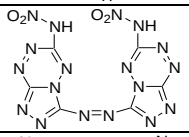
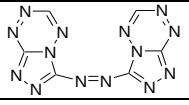
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270	[90]		**1.67**		-		-	**1.873**	**10.8**	**1.638**	**-2**	**1.756**	**4.9**
271	[90]		**1.94**		-		-	**1.949**	**0.5**	**1.856**	**-4.5**	**1.903**	**-1.9**
272	[91]		**1.88**		-		-	**2.044**	**8**	**1.781**	**-5.6**	**1.913**	**1.7**
273	[91]		**1.84**		-		-		-	**1.659**	**-10.9**	-	-
274	[91]		**1.79**	**1.674**	**-6.9**		-		-	**1.64**	**-9.1**	**1.657**	**-8**
275	[91]		**1.81**	**1.711**	**-5.8**		-		-	**1.645**	**-10**	**1.678**	**-7.9**
276	[91]		**1.78**	**1.657**	**-7.4**		-		-	**1.654**	**-7.6**	**1.655**	**-7.6**
277	[91]		**1.84**	**1.636**	**-12.5**		-		-	**1.644**	**-11.9**	**1.64**	**-12.2**
278	[91]		**1.79**	**1.624**	**-10.2**		-		-	**1.656**	**-8.1**	**1.64**	**-9.1**
279	[91]		**1.82**	**1.657**	**-9.8**		-		-	**1.678**	**-8.5**	**1.667**	**-9.2**
280	[91]		**1.85**	**1.677**	**-10.3**		-		-	**1.676**	**-10.4**	**1.676**	**-10.4**
281	[91]		**1.84**	**1.664**	**-10.6**		-		-	**1.697**	**-8.4**	**1.68**	**-9.5**
282	[91]		**1.85**	**1.664**	**-11.2**		-		-	**1.686**	**-9.7**	**1.675**	**-10.4**
283	[92]		**1.59**		-		-		-	**1.518**	**-4.7**	**1.724**	**7.8**
284	[92]		**1.66**		-		-		-	**1.577**	**-5.3**	**1.661**	**0.1**
285	[92]		**1.63**		-		-	**1.745**	**6.6**	**1.577**	**-3.4**	**1.661**	**1.9**

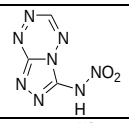
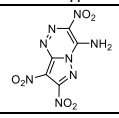
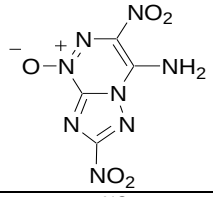
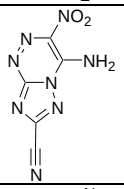
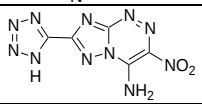
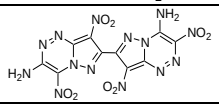
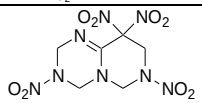
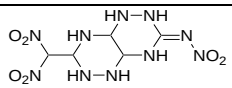
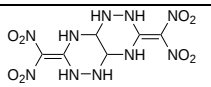
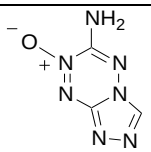
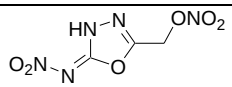
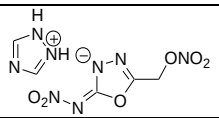
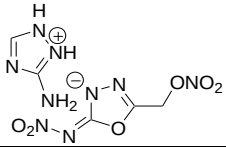
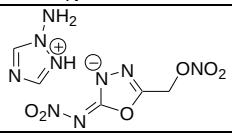
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286	[92]		**1.62**		-		-	**1.745**	**7.2**	**1.577**	**-2.7**	**1.661**	**2.5**
287	[92]		**1.70**		-		-	**1.746**	**2.6**	**1.608**	**-5.7**	**1.677**	**-1.4**
288	[92]		**1.62**		-		-	**1.746**	**7.2**	**1.608**	**-0.7**	**1.677**	**3.4**
289	[92]		**1.65**		-		-	**1.746**	**5.5**	**1.608**	**-2.6**	**1.677**	**1.6**
290	[92]		**1.66**		-		-	**1.746**	**4.9**	**1.608**	**-3.2**	**1.677**	**1**
291	[92]		**1.64**		-		-	**1.812**	**9.5**	**1.627**	**-0.8**	**1.72**	**4.7**
292	[92]		**1.68**		-		-	**1.862**	**9.8**	**1.705**	**1.5**	**1.784**	**5.8**
293	[92]		**1.69**		-		-	**1.825**	**7.4**	**1.675**	**-0.9**	**1.75**	**3.4**
294	[92]		**1.76**		-		-	**1.882**	**6.5**	**1.755**	**-0.3**	**1.818**	**3.2**
295	[92]		**1.83**		-		-	**1.89**	**3.2**	**1.75**	**-4.6**	**1.82**	**-0.5**
296	[92]		**1.70**		-	**1.361**	**-24.9**	**1.964**	**13.4**	**1.671**	**-1.7**	**1.665**	**-2.1**
297	[93]		**1.57**		-		-		-	**1.534**	**-2.3**	-	-
298	[93]		**1.58**		-		-		-	**1.554**	**-1.7**	-	-
299	[93]		**1.68**		-		-	**1.937**	**13.3**	**1.756**	**4.3**	**1.847**	**9**
300	[93]		**1.59**		-	**1.4**	**-13.6**		-	**1.597**	**0.4**	**1.498**	**-6.1**
301	[94]		**1.762**		-		-	**1.866**	**5.6**	**1.847**	**4.6**	**1.857**	**5.1**

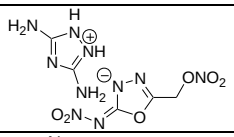
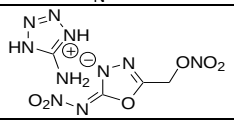
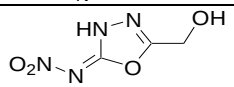
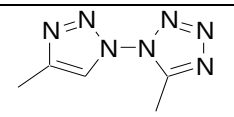
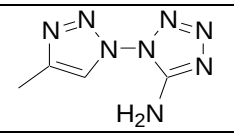
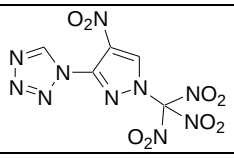
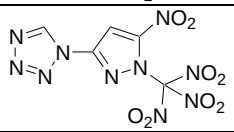
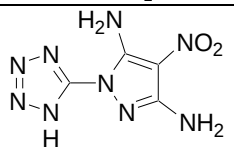
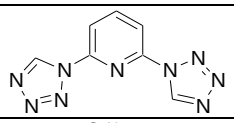
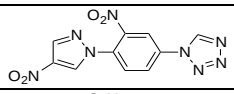
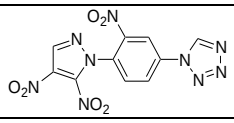
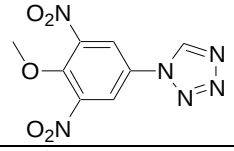
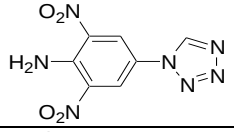
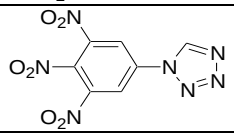
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302	[94]		**1.677**		-		-	**1.803**	**7**	**1.772**	**5.4**	**1.788**	**6.2**
303	[94]		**1.733**		-		-	**1.905**	**9**	**1.763**	**1.7**	**1.834**	**5.5**
304	[94]		**1.634**		-		-	**1.82**	**10.2**	**1.677**	**2.6**	**1.748**	**6.5**
305	[95]		**1.85**		-		-		-	**1.716**	**-7.8**	-	-
306	[95]		**1.68**		-		-		-	**1.684**	**0.2**	-	-
307	[95]		**1.75**		-		-		-	**1.567**	**-11.7**	-	-
308	[95]		**1.81**		-		-		-	**1.54**	**-17.5**	-	-
309	[95]		**1.62**		-		-		-	**1.613**	**-0.4**	-	-
310	[95]		**1.69**		-		-		-	**1.715**	**1.5**	-	-
311	[95]		**1.83**		-		-		-	**1.716**	**-6.6**	-	-
312	[95]		**1.68**		-		-		-	**1.79**	**6.1**	-	-
313	[95]		**1.79**		-		-		-	**1.685**	**-6.2**	-	-
314	[95]		**2.12**		-		-	**2.033**	**-4.3**	**1.826**	**-16.1**	**1.929**	**-9.9**
315	[95]		**1.80**		-		-	**2.062**	**12.7**	**1.77**	**-1.7**	**1.916**	**6.1**
316	[95]		**1.70**		-		-	**1.833**	**7.3**	**1.687**	**-0.8**	**1.76**	**3.4**

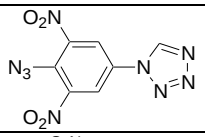
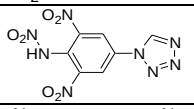
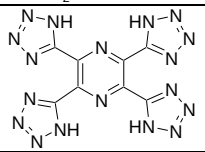
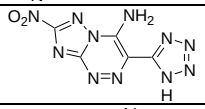
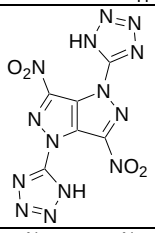
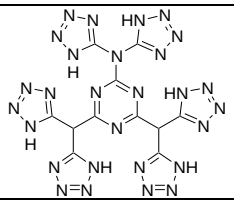
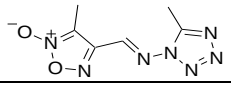
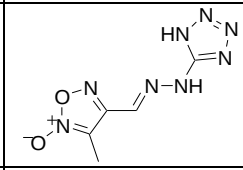
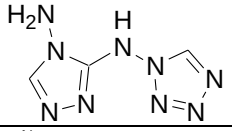
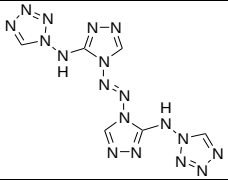
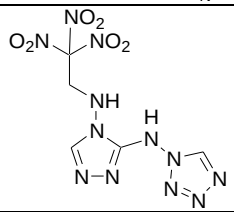
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
317	[95]		**1.53**		-	**1.36**	**-12.5**		-	**1.462**	**-4.7**	**1.411**	**-8.4**
318	[95]		**1.74**		-		-	**1.889**	**7.9**	**1.742**	**0.1**	**1.816**	**4.2**
319	[95]		**1.75**		-		-	**1.879**	**6.9**	**1.763**	**0.7**	**1.821**	**3.9**
320	[95]		**1.82**		-		-	**1.944**	**6.4**	**1.843**	**1.2**	**1.893**	**3.9**
321	[95]		**1.81**		-		-	**1.983**	**8.7**	**1.852**	**2.3**	**1.917**	**5.6**
322	[95]		**1.82**		-		-	**1.983**	**8.2**	**1.852**	**1.7**	**1.917**	**5.1**
323	[95]		**1.80**		-		-	**1.911**	**5.8**	**1.816**	**0.9**	**1.864**	**3.4**
324	[95]		**1.85**		-		-	**1.983**	**6.7**	**1.852**	**0.1**	**1.917**	**3.5**
325	[95]		**1.83**		-		-	**1.983**	**7.7**	**1.852**	**1.2**	**1.917**	**4.5**
326	[95]		**1.77**		-	**1.47**	**-20.4**	**2.107**	**16**	**1.712**	**-3.4**	**1.591**	**-11.3**
327	[96]		**1.901 (β), 1.91 (α)**		-		-	**2.146**	**11**	**1.949**	**2**	**2.047**	**6.7**
328	[96]		**1.89**		-		-	**2.044**	**7.5**	**1.994**	**5.2**	**2.019**	**6.4**
329	[96]		**1.89**		-	**1.47**	**-28.6**	**2.171**	**12.9**	**1.835**	**-3**	**1.652**	**-14.4**
330	[96]		**1.90**		-		-	**2.014**	**5.7**	**1.932**	**1.7**	**1,973**	**99.9**

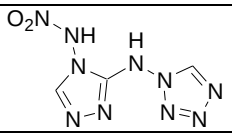
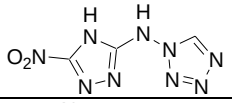
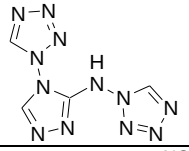
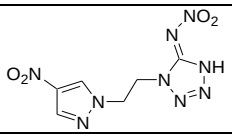
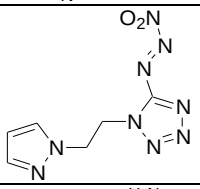
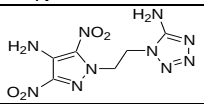
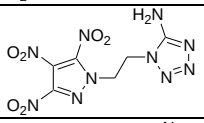
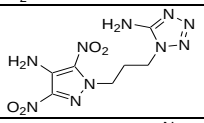
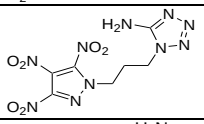
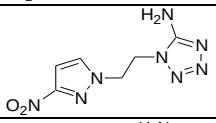
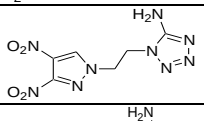
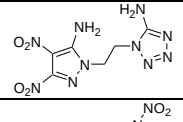
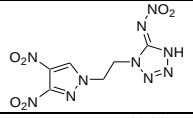
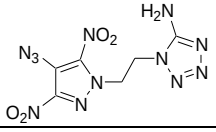
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
331	[96]		**1.80**		-		-	**1.949**	**7.6**	**1.847**	**2.5**	**1.898**	**5.2**
332	[96]		**1.76**		-		-	**1.89**	**6.9**	**1.775**	**0.8**	**1.833**	**4**
333	[96]		**1.79**		-		-	**2.005**	**10.7**	**1.929**	**7.2**	**1.967**	**9**
334	[96]		**1.94**		-		-	**2.037**	**4.8**	**1.972**	**1.6**	**2.005**	**3.2**
335	[96]		**1.92**		-		-	**1.939**	**1**	**1.944**	**1.2**	**2.03**	**5.4**
336	[96]		**1.69**		-		-	**1.834**	**7.9**	**1.719**	**1.7**	**1.776**	**4.8**
337	[96]		**1.77**		-		-		-	**1.811**	**2.3**	-	-
338	[96]		**1.82**		-		-		-	**2.033**	**10.5**	**2.119**	**14.1**
339	[96]		**1.73**		-		-		-	**1.774**	**2.5**	-	-
340	[96]		**1.85**		-		-	**1.95**	**5.1**	**1.942**	**4.7**	**1.946**	**4.9**
341	[96]		**1.82**		-		-	**1.863**	**2.3**	**1.856**	**1.9**	**1.86**	**2.2**
342	[96]		**1.95**		-		-	**2.127**	**8.3**	**2.085**	**6.5**	**2.106**	**7.4**

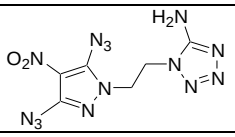
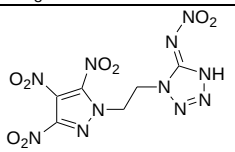
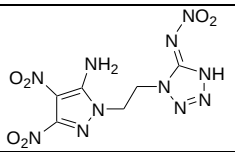
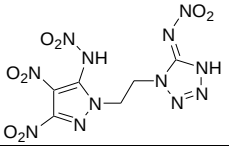
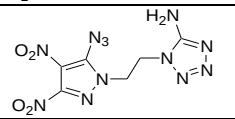
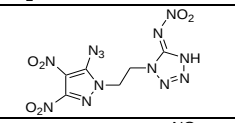
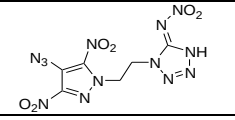
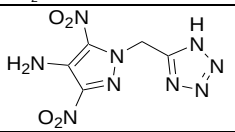
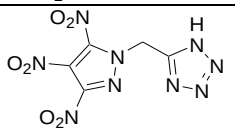
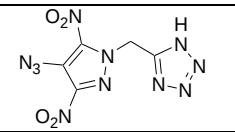
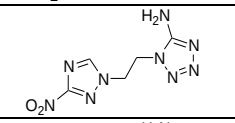
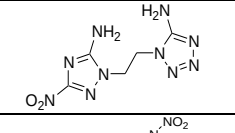
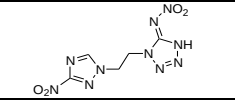
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343	[96]		**1.84**		-		-	**1.921**	**4.2**	**1.93**	**4.7**	**1.925**	**4.4**
344	[96]		**1.93**		-		-	**2**	**3.5**	**2.042**	**5.5**	**2.021**	**4.5**
345	[96]		**2.02**		-		-	**2.095**	**3.6**	**2.024**	**0.2**	**2.059**	**1.9**
346	[96]		**1.84**		-		-	**1.98**	**7.1**	**1.856**	**0.9**	**1.918**	**4.1**
347	[96]		**1.68**		-		-		-	**1.714**	**2**	-	-
348	[96]		**1.87**		-		-		-	**1.839**	**-1.7**	-	-
349	[96]		**1.93**		-		-		-	**1.955**	**1.3**	-	-
350	[96]		**1.79**		-		-	**1.799**	**0.5**	**1.7**	**-5.3**	**1.749**	**-2.3**
351	[96]		**1.76**		-		-	**2.076**	**15.2**	**1.782**	**1.2**	**1.929**	**8.8**
352	[96]		**1.91**		-		-	**2.078**	**8.1**	**1.89**	**-1.1**	**1.984**	**3.7**
353	[96]		**1.86**		-		-	**2.327**	**20.1**	**1.898**	**2**	**2.112**	**11.9**
354	[96]		**1.82**		-		-		-	**1.794**	**-1.4**	**1.937**	**6**
355	[96]		**1.74**		-	**1.27**	**-37**		-	**1.674**	**-3.9**	**1.472**	**-18.2**
356	[96]		**1.77**		-	**1.37**	**-29.2**		-	**1.674**	**-5.7**	**1.522**	**-16.3**
357	[96]		**1.85**		-	**1.456**	**-27.1**	**2.196**	**15.8**	**1.782**	**-3.8**	**1.619**	**-14.3**
358	[96]		**1.85**		-		-	**2.158**	**14.3**	**1.805**	**-2.5**	**1.982**	**6.7**
359	[96]		**1.91**		-		-		-	**1.644**	**-16.2**	-	-

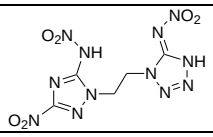
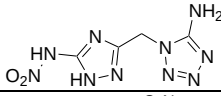
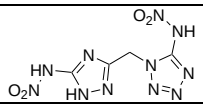
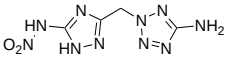
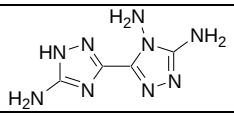
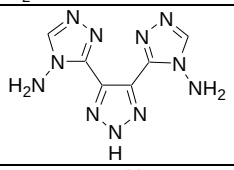
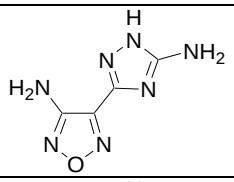
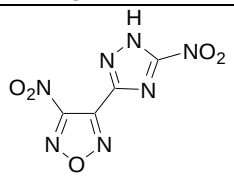
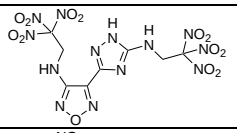
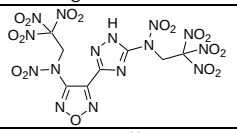
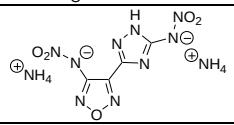
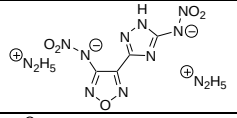
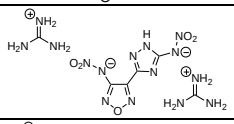
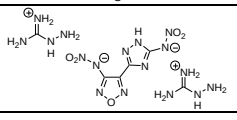
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360	[96]		**1.81**		-		-	**2.076**	**12.8**	**1.782**	**-1.6**	**1.929**	**6.2**
361	[96]		**1.95**		-		-	**1.971**	**1.1**	**1.897**	**-2.8**	**1.934**	**-0.8**
362	[96]		**1.90 (predicted)**		-		-	**1.937**	**1.9**	**2.095**	**9.3**	**2.016**	**5.8**
363	[96]		**1.81**		-		-	**2.056**	**12**	**1.729**	**-4.7**	**1.893**	**4.4**
364	[96]		**1.82**		-		-	**2.067**	**11.9**	**1.776**	**-2.5**	**1.921**	**5.3**
365	[96]		**1.85**		-		-	**1.971**	**6.1**	**1.859**	**0.5**	**1.915**	**3.4**
366	[96]		**1.86**		-		-	**1.933**	**3.8**	**1.748**	**-6.4**	**1.841**	**-1**
367	[96]		**1.73**		-		-	**1.832**	**5.6**	**1.791**	**3.4**	**1.812**	**4.5**
368	[96]		**1.85**		-		-	**1.892**	**2.2**	**1.876**	**1.4**	**1.884**	**1.8**
369	[97]		**1.70**		-		-		-	**1.768**	**3.8**	**1.937**	**12.2**
370	[98]		**1.875**		-		-	**1.794**	**-4.5**	**1.796**	**-4.4**	**1.795**	**-4.5**
371	[98]		**1.772**	**1.748**	**-1.4**		-		-	**1.721**	**-3**	**1.735**	**-2.1**
372	[98]		**1.780**	**1.733**	**-2.7**		-		-	**1.717**	**-3.7**	**1.725**	**-3.2**
373	[98]		**1.802**	**1.733**	**-4**		-		-	**1.707**	**-5.6**	**1.72**	**-4.8**

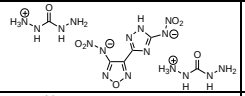
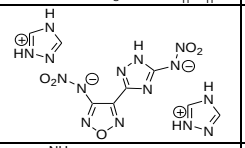
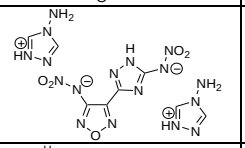
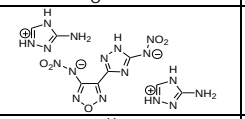
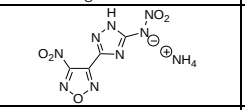
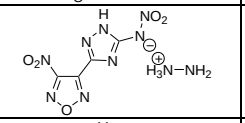
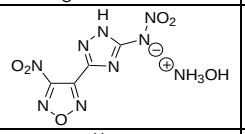
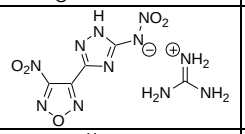
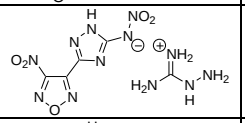
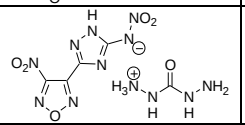
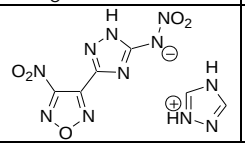
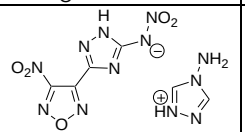
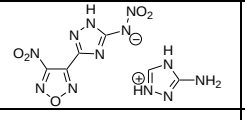
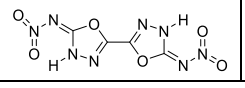
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
374	[98]		**1.814**	1.719	-5.5		-		-	1.733	-4.7	1.726	-5.1
375	[98]		**1.796**	1.768	-1.6		-		-	1.709	-5.1	1.739	-3.3
376	[98]		**1.811**		-		-	1.943	6.8	1.678	-7.9	1.81	-0.1
377	[99]		**1.47**		-		-		-	1.414	-4	-	-
378	[99]		**1.52**		-		-		-	1.536	1	-	-
379	[99]		**1.79**		-		-	1.991	10.1	1.886	5.1	1.938	7.6
380	[99]		**1.76**		-		-	1.991	11.6	1.886	6.7	1.938	9.2
381	[99]		**1.76**		-		-	1.933	8.9	1.772	0.7	1.853	5
382	[99]		**1.59**		-		-		-	1.518	-4.7	1.724	7.8
383	[99]		**1.64**		-		-	1.812	9.5	1.627	-0.8	1.72	4.7
384	[99]		**1.68**		-		-	1.862	9.8	1.705	1.5	1.784	5.8
385	[99]		**1.70**		-		-	1.746	2.6	1.608	-5.7	1.677	-1.4
386	[99]		**1.69**		-		-	1.825	7.4	1.675	-0.9	1.75	3.4
387	[99]		**1.83**		-		-	1.89	3.2	1.75	-4.6	1.82	-0.5

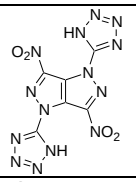
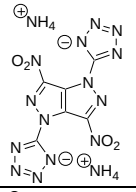
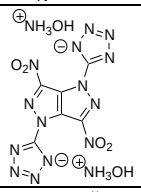
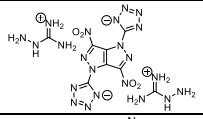
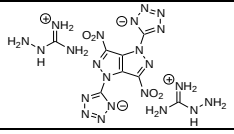
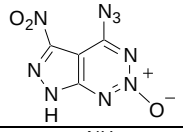
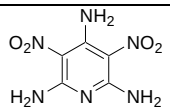
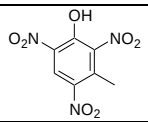
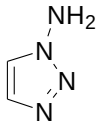
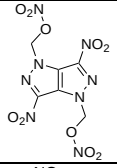
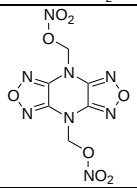
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388	[99]		**1.70**		-	**1.361**	**-24.9**	**1.964**	**13.4**	**1.671**	**-1.7**	**1.516**	**-12.1**
389	[99]		**1.76**		-		-	**1.882**	**6.5**	**1.755**	**-0.3**	**1.755**	**-0.3**
390	[99]		**1.95**		-		-		-	**1.681**	**-16**	-	-
391	[99]		**1.87**		-		-	**2.067**	**9.5**	**1.776**	**-5.3**	**1.921**	**2.7**
392	[99]		**1.79**		-		-	**2.107**	**15**	**1.893**	**5.4**	**2**	**10.5**
393	[99]		**1.88**		-		-		-	**1.664**	**-13**	-	-
394	[99]		**1.531**		-		-		-	**1.49**	**-2.8**	-	-
395	[99]		**1.62**		-		-		-	**1.595**	**-1.6**	-	-
396	[99]		**1.65**		-		-		-	**1.662**	**0.7**	-	-
397	[99]		**1.68**		-		-		-	**1.661**	**-1.1**	-	-
398	[99]		**1.77**		-		-	**1.927**	**8.1**	**1.772**	**0.1**	**1.849**	**4.3**

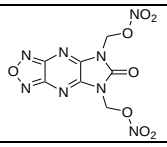
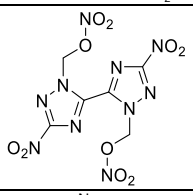
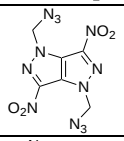
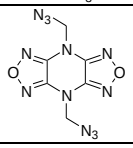
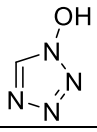
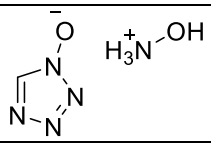
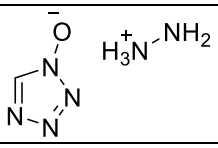
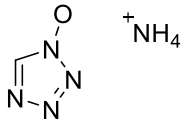
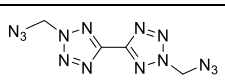
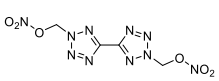
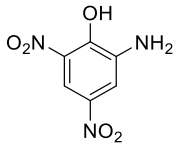
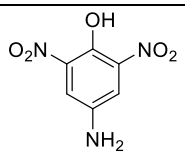
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
399	[99]		**1.78**		-		-	**2.027**	**12.2**	**1.777**	**-0.2**	**1.902**	**6.4**
400	[99]		**1.74**		-		-	**2.05**	**15.1**	**1.787**	**2.6**	**1.918**	**9.3**
401	[99]		**1.71**		-		-		-	**1.683**	**-1.6**	-	-
402	[99]		**1.65**		-		-	**1.818**	**9.2**	**1.649**	**-0.1**	**1.734**	**4.8**
403	[99]		**1.50**		-		-	**1.827**	**17.9**	**1.509**	**0.6**	**1.668**	**10.1**
404	[99]		**1.67**		-		-	**1.992**	**16.2**	**1.678**	**0.5**	**1.835**	**9**
405	[99]		**1.71**		-		-	**1.873**	**8.7**	**1.745**	**2**	**1.809**	**5.5**
406	[99]		**1.65**		-		-	**1.92**	**14.1**	**1.611**	**-2.4**	**1.765**	**6.5**
407	[99]		**1.67**		-		-	**1.805**	**7.5**	**1.676**	**0.4**	**1.74**	**4**
408	[99]		**1.53**		-		-	**1.92**	**20.3**	**1.552**	**1.4**	**1.736**	**11.9**
409	[99]		**1.59**		-		-	**1.818**	**12.5**	**1.659**	**4.2**	**1.739**	**8.6**
410	[99]		**1.68**		-		-	**1.992**	**15.7**	**1.678**	**-0.1**	**1.835**	**8.4**
411	[99]		**1.69**		-		-	**1.873**	**9.8**	**1.735**	**2.6**	**1.804**	**6.3**
412	[99]		**1.70**		-	**1.443**	**-17.8**	**1.938**	**12.3**	**1.674**	**-1.6**	**1.558**	**-9.1**

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
413	[99]		**1.63**		-	**1.384**	**-17.8**	**2.005**	**18.7**	**1.608**	**-1.4**	**1.496**	**-9**
414	[99]		**1.77**		-		-	**1.914**	**7.5**	**1.788**	**1**	**1.851**	**4.4**
415	[99]		**1.76**		-		-	**2.045**	**13.9**	**1.731**	**-1.7**	**1.888**	**6.8**
416	[99]		**1.84**		-		-	**1.907**	**3.5**	**1.791**	**-2.7**	**1.849**	**0.5**
417	[99]		**1.71**		-	**1.443**	**-18.5**	**1.938**	**11.8**	**1.674**	**-2.2**	**1.558**	**-9.8**
418	[99]		**1.81**		-	**1.544**	**-17.2**	**1.971**	**8.2**	**1.453**	**-24.6**	**1.498**	**-20.8**
419	[99]		**1.78**		-	**1.544**	**-15.3**	**1.971**	**9.7**	**1.724**	**-3.2**	**1.634**	**-8.9**
420	[99]		**1.83**		-		-	**2.08**	**12**	**1.753**	**-4.4**	**1.917**	**4.5**
421	[99]		**1.86**		-		-	**1.958**	**5**	**1.824**	**-2**	**1.891**	**1.6**
422	[99]		**1.81**		-	**1.473**	**-22.9**	**2.031**	**10.9**	**1.741**	**-4**	**1.607**	**-12.6**
423	[99]		**1.58**		-		-	**2.009**	**21.4**	**1.589**	**0.6**	**1.799**	**12.2**
424	[99]		**1.66**		-		-	**1.825**	**9**	**1.614**	**-2.9**	**1.72**	**3.5**
425	[99]		**1.66**		-		-	**1.892**	**12.3**	**1.663**	**0.2**	**1.777**	**6.6**

		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
426	[99]		**1.69**		-		-	**1.927**	**12.3**	**1.753**	**3.6**	**1.84**	**8.2**
427	[99]		**1.71**		-		-	**1.919**	**10.9**	**1.699**	**-0.6**	**1.809**	**5.5**
428	[99]		**1.81**		-		-	**1.966**	**7.9**	**1.785**	**-1.4**	**1.875**	**3.5**
429	[99]		**1.72**		-		-	**1.919**	**10.4**	**1.699**	**-1.2**	**1.809**	**4.9**
430	[100]		**1.68**		-		-		-	**1.67**	**-0.6**	-	-
431	[100]		**1.65**		-		-		-	**1.648**	**-0.1**	-	-
432	[101]		**1.596**		-		-		-	**1.685**	**5.3**	-	-
433	[101]		**1.863**		-		-	**2.013**	**7.5**	**1.883**	**1.1**	**1.948**	**4.4**
434	[101]		**1.908**		-		-	**1.869**	**-2.1**	**1.822**	**-4.7**	**1.845**	**-3.4**
435	[101]		**1.932**		-		-	**1.92**	**-0.6**	**1.891**	**-2.2**	**1.905**	**-1.4**
436	[101]		**1.822**	**1.691**	**-7.7**		-		-	**1.676**	**-8.7**	**1.683**	**-8.3**
437	[101]		**1.834**	**1.669**	**-9.9**		-		-	**1.691**	**-8.5**	**1.68**	**-9.2**
438	[101]		**1.659**	**1.641**	**-1.1**		-		-	**1.673**	**0.8**	**1.657**	**-0.1**
439			**1.679**	**1.627**	**-3.2**		-		-	**1.685**	**0.4**	**1.656**	**-1.4**

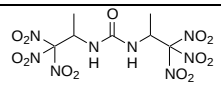
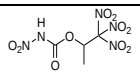
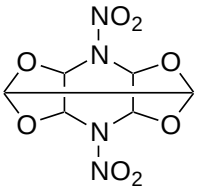
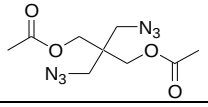
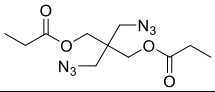
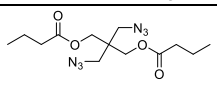
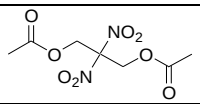
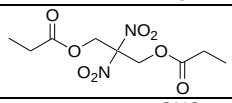
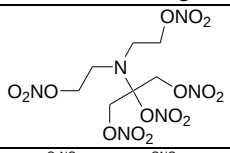
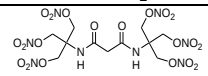
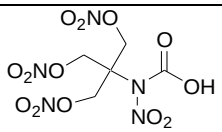
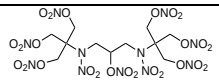
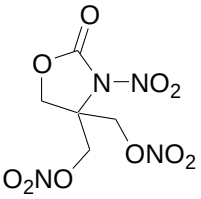
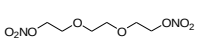
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440	[101]		**1.687**	1.665	-1.3		-		-	1.71	1.3	1.688	0.1
441			**1.780**	1.691	-5.3		-		-	1.711	-4	1.701	-4.6
442	[101]		**1.761**	1.674	-5.2		-		-	1.721	-2.3	1.698	-3.7
443	[101]		**1.752**	1.674	-4.7		-		-	1.735	-1	1.704	-2.8
444	[101]		**1.815**	1.763	-2.9		-		-	1.761	-3.1	1.762	-3
445	[101]		**1.847**	1.746	-5.8		-		-	1.766	-4.6	1.756	-5.2
446	[101]		**1.844**	1.785	-3.3		-		-	1.757	-5	1.771	-4.1
447	[101]		**1.677**	1.722	2.6		-		-	1.746	4	1.734	3.3
448	[101]		**1.670**	1.709	2.3		-		-	1.751	4.6	1.73	3.5
449	[101]		**1.676**	1.73	3.1		-		-	1.765	5	1.748	4.1
450	[101]		**1.720**	1.751	1.8		-		-	1.77	2.8	1.76	2.3
451	[101]		**1.748**	1.737	-0.6		-		-	1.774	1.5	1.756	0.5
452	[101]		**1.716**	1.737	1.2		-		-	1.784	3.8	1.76	2.5
453	[102]		**1.99**		-		-	1.981	-0.5	1.849	-7.6	1.915	-3.9

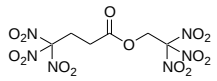
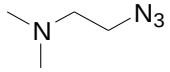
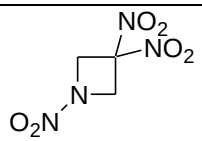
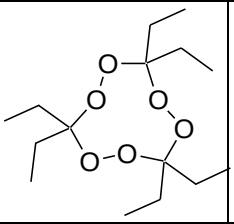
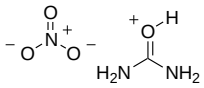
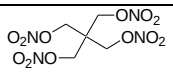
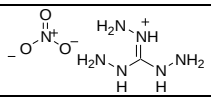
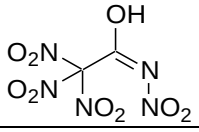
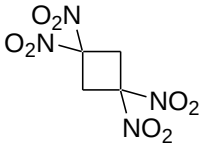
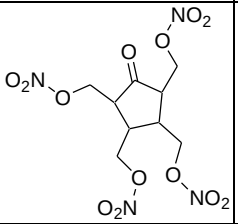
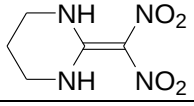
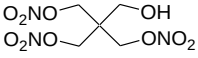
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454	[103]		**1.79**		-		-	**2.107**	**15**	**1.893**	**5.4**	**2**	**10.5**
455	[103]		**1.69**	**1.705**	**0.9**		-		-	**1.724**	**2**	**1.715**	**1.5**
456	[103]		**1.61**	**1.74**	**7.5**		-		-	**1.76**	**8.5**	**1.75**	**8**
457	[103]		**1.75**	**1.648**	**-6.2**		-		-	**1.72**	**-1.7**	**1.684**	**-3.9**
458	[103]		**1.64**	**1.648**	**0.5**		-		-	**1.72**	**4.7**	**1.684**	**2.6**
459	[104]		**1.86**		-	**1.441**	**-29.1**	**2.206**	**15.7**	**1.828**	**-1.8**	**1.821**	**-2.1**
461	[38]		**1.82**		-		-	**1.744**	**-4.4**	**1.726**	**-5.4**	**1.735**	**-4.9**
462	[38]		**1.62**		-		-	**1.764**	**8.2**	**1.677**	**3.4**	**1.72**	**5.8**
463	[24]		**1.441**		-		-		-	**1.523**	**5.4**	-	-
465	[105]		**1.82**		-		-	**1.863**	**2.3**	**1.884**	**3.4**	**1.873**	**2.8**
466	[105]		**1.84**		-		-	**1.874**	**1.8**	**1.853**	**0.7**	**1.864**	**1.3**

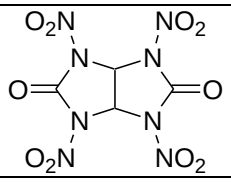
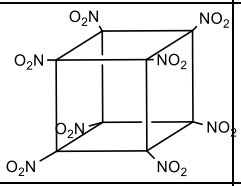
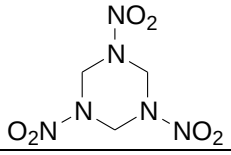
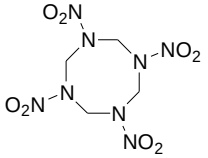
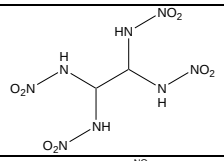
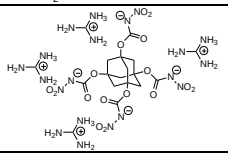
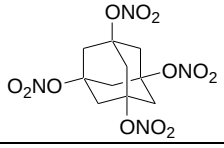
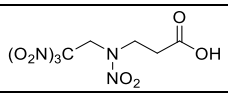
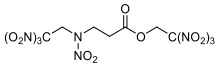
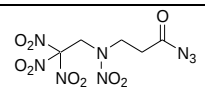
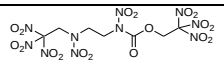
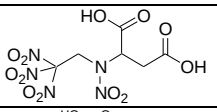
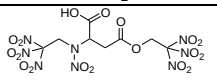
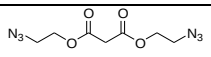
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467	[105]		**1.79**		-		-	**1.87**	**4.3**	**1.84**	**2.7**	**1.855**	**3.5**
468	[105]		**1.83**		-		-	**1.908**	**4.1**	**1.839**	**0.5**	**1.873**	**2.3**
469	[105]		**1.71**		-	**1.443**	**-18.5**	**2.006**	**14.8**	**1.699**	**-0.6**	**1.571**	**-8.8**
470	[105]		**1.68**		-	**1.357**	**-23.8**		-	**1.652**	**-1.7**	**1.504**	**-11.7**
474	[106]		**1.63**		-		-	**2.075**	**21.4**	**1.681**	**3**	**1.825**	**10.7**
475	[106]		**1.67**	**1.646**	**-1.5**		-		-	**1.634**	**-2.2**	**1.785**	**6.4**
476	[106]		**1.60**	**1.553**	**-3**		-		-	**1.594**	**-0.4**	**1.574**	**-1.7**
477	[106]		**1.40**	**1.568**	**10.7**		-		-	**1.562**	**10.4**	**1.574**	**11.1**
478	[107]		**1.62**		-	**1.311**	**-23.6**	**2.147**	**24.5**	**1.551**	**-4.4**	**1.67**	**3**
479	[107]		**1.69**		-		-	**1.955**	**13.6**	**1.764**	**4.2**	**1.86**	**9.1**
480	[108]		**1.69**		-		-	**1.744**	**3.1**	**1.679**	**-0.7**	**1.712**	**1.3**
481	[109]		**1.78**		-		-	**1.744**	**-2.1**	**1.679**	**-6**	**1.712**	**-4**

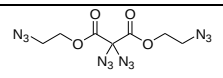
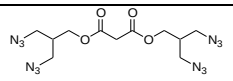
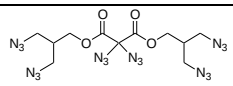
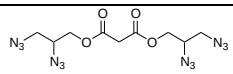
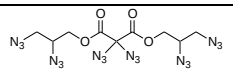
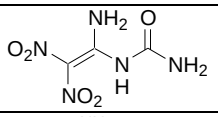
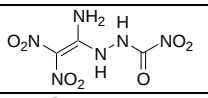
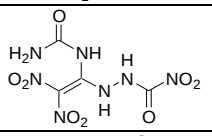
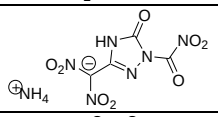
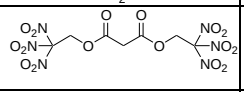
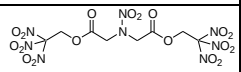
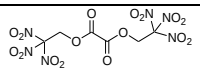
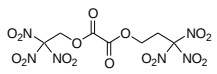
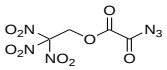
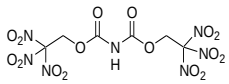
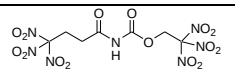
2.4.6 The densities of non-aromatic compounds

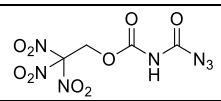
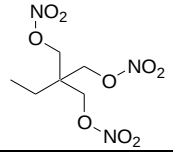
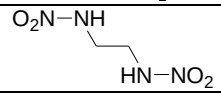
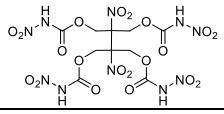
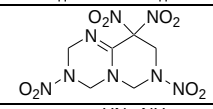
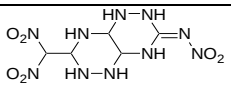
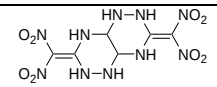
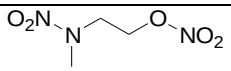
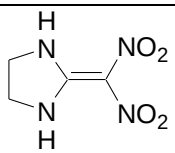
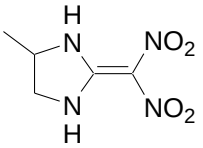
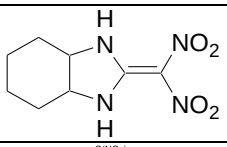
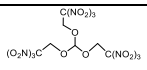
Table 78. Table summarizing the structural formulae, empirical formulae and the densities of the non-aromatic compounds.

		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
1	[22]		1.82		-		-	1.697	-7.2	1.712	-6.3	1.704	-6.8
2	[22]		1.58		-		-	1.747	9.6	1.792	11.8	1.77	10.7
3	[23] [24]		1.985		-		-	1.769	-12.2	2.007	1.1	1.888	-5.1
26	[35]		1.21		-	1.226	1.3	1.443	16.1	1.28	5.5		-
27	[35]		1.16		-	1.171	0.9	1,335	13.1	1.23	5.7	1.316	11.9
28	[35]		1.09		-	1.123	2.9	1.245	12.4	1.192	8.6	1.251	12.9
29	[35]		1.33		-		-	1.423	6.5	1.478	10	1.347	1.3
30	[35]		1.22		-		-	1.309	6.8	1.386	12	1.348	9.5
31	[36]		1.69		-		-	1.602	-5.5	1.632	-3.6	1.617	-4.5
32	[36]		1.67		-		-	1.606	-4	1.632	-2.3	1.619	-3.2
33	[36]		1.73		-		-	1.788	3.2	1.775	2.5	1.781	2.9
34	[36]		1.8		-		-	1.71	-5.3	1.726	-4.3	1.718	-4.8
35	[36]		1.84		-		-	1.775	-3.7	1.78	-3.4	1.777	-3.5
44	[38]		1.344		-		-	1.273	-5.6	1.452	7.4	1.362	1.3

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
45	[38]		1.78		-		-	1.748	-1.8	1.78	0	1.764	-0.9
46	[24]		0.933		-	1.14	18.2		-	1.109	15.9	1.124	17
48	[41]		1.841		-		-	1.935	4.9	1.823	-1	1.879	2
49	[42]		1.25		-		-		-	1.124	-11.2	-	-
50	[43]		1.655	1.729	4.3		-		-	1.79	7.5	1.719	3.7
51	[44]		1.76		-		-	1.768	0.5	1.706	-3.2	1.737	-1.3
53	[38]		1.509	1.59	5.1		-		-	1.714	12	1.652	8.7
54	[38]		1.87		-		-	2.017	7.3	1.937	3.5	1.977	5.4
55	[38]		1.83		-		-	1.837	0.4	1.819	-0.6	1.828	-0.1
56	[38]		1.55		-		-	1.486	-4.3	1.622	4.4	1.554	0.3
59	[47]		1.65		-		-	1.618	-2	1.567	-5.3	1.593	-3.6
60	[38]		1.54		-		-	1.622	5.1	1.642	6.2	1.632	5.6

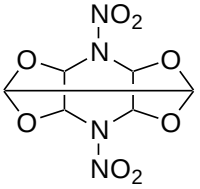
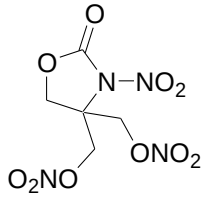
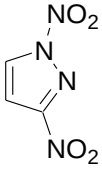
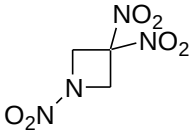
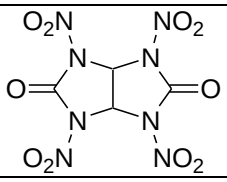
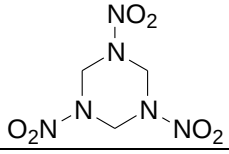
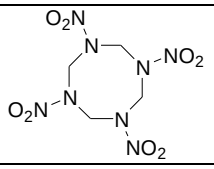
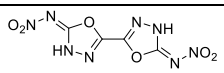
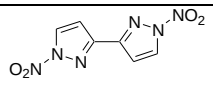
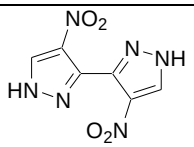
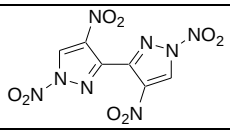
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
61	[38]		2.04		-		-	2.035	-0.2	2.065	1.2	2.05	0.5
62	[38]		1.979		-		-	2.013	1.7	2.202	10.1	2.107	6.1
64	[26]		1.806		-		-	1.843	2	1.797	-0.5	1.82	0.8
65	[38]		1.903		-		-	1.843	-3.3	1.782	-6.8	1.812	-5
66	[38]		1.87		-		-	1.819	-2.8	1.889	1	1.854	-0.9
76	[49]		1.54	1.551	0.7		-		-	1.561	1.3	1.556	1
77	[49]		1.659		-		-	1.534	-8.1	1.705	2.7	1.619	-2.5
78	[50]		1.72		-		-	1.778	3.3	1.711	-0.5	1.744	1.4
79	[50]		1.73		-		-	1.747	1	1.773	2.4	1.76	1.7
80	[50]		1.7		-	1.685	-0.9		-	1.651	-3	1.687	-0.8
81	[50]		1.89		-		-	1.786	-5.8	1.816	-4.1	1.762	-7.3
82	[50]		1.66		-		-	1.787	7.1	1.738	4.5	1.762	5.8
83	[50]		1.65		-		-	1.847	10.7	1.787	7.7	1.817	9.2
84	[51]		1.38		-	1.292	-6.8		-	1.348	-2.4	1.32	-4.5

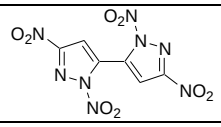
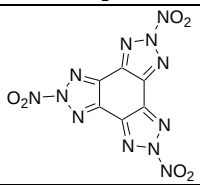
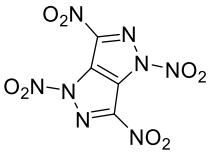
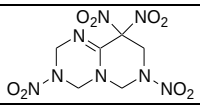
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
85	[51]		1.49		-	1.41	-5.7		-	1.437	-3.7	1.423	-4.7
86	[51]		1.38		-	1.323	-4.3		-	1.318	-4.7	1.321	-4.5
87	[51]		1.51		-	1.413	-6.9		-	1.382	-9.3	1.397	-8.1
88	[51]		1.3		-	1.361	4.5		-	1.37	5.1	1.365	4.8
89	[51]		1.5		-	1.446	-3.7		-	1.433	-4.7	1.44	-4.2
90	[52]		1.86		-		-	1.744	-6.7	1.77	-5.1	1.757	-5.9
91	[52]		1.79		-		-	1.831	2.2	1.862	3.9	1.847	3.1
92	[52]		1.7		-		-	1.818	6.5	1.841	7.7	1.829	7.1
93	[52]		1.82	1.82	0		-		-	1.827	0.4	1.824	0.2
94	[53]		1.76		-		-	1.748	-0.7	1.789	1.6	1.768	0.5
95	[53]		1.78		-		-	1.748	-1.8	1.781	0.1	1.764	-0.9
113	[57]		1.84		-		-	1.797	-2.4	1.851	0.6	1.824	-0.9
114	[57]		1.73		-		-	1.748	1	1.789	3.3	1.769	2.2
115	[57]		1.75		-	1.858	5.8		-	1.782	1.8	1.82	3.8
116	[57]		1.92		-		-	1.795	-7	1.851	-3.7	1.823	-5.3
117	[57]		1.63		-		-	1.748	6.8	1.776	8.2	1.762	7.5

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
118	[57]		1.5		-	1.878	20.1		-	1.785	16	1.831	18.1
119	[26]		1.5		-		-	1.445	-3.8	1.527	1.8	1.529	1.9
121	[26]		1.75		-		-	1.608	-8.8	1.646	-6.3	1.627	-7.6
130	[60]		1.89		-		-	1.713	-10.3	1.764	-7.1	1.739	-8.7
366	[96]		1.86		-		-	1.933	3.8	1.748	-6.4	1.841	-1
367	[96]		1.73		-		-	1.832	5.6	1.791	3.4	1.812	4.5
368	[96]		1.85		-		-	1.892	2.2	1.876	1.4	1.884	1.8
460	[26]		1.53		-		-	1.364	-12.2	1.547	1.1	1.456	-5.1
471	[47]		1.69		-		-	1.717	1.6	1.668	-1.3	1.692	0.1
472	[47]		1.62		-		-	1.618	-0.1	1.567	-3.4	1.593	-1.7
473	[47]		1.54		-		-	1.478	-4.2	1.472	-4.6	1.475	-4.4
482	[110]		1.81		-		-	1.785	-1.4	1.851	2.2	1.818	0.4

2.4.7 The densities of cyclic nitramines

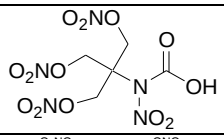
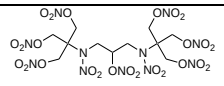
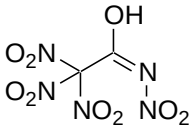
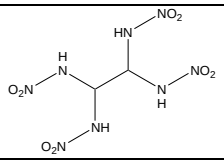
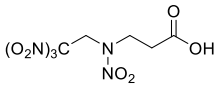
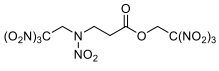
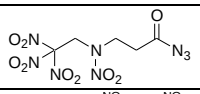
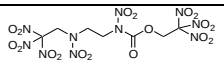
Table 79. Table summarizing the structural formulae, empirical formulae and the densities of the cyclic nitramines.

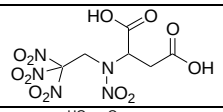
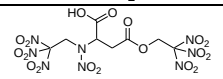
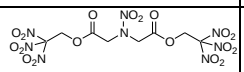
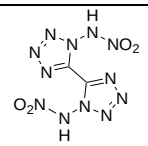
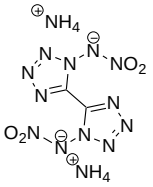
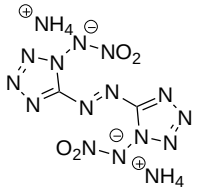
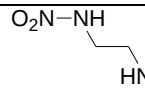
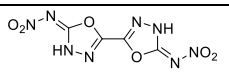
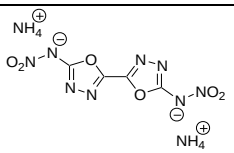
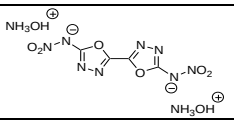
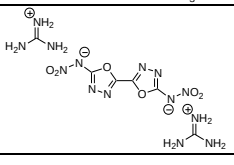
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
3	[23] [24]		1.985	1.769	-12.2	2.007	1.1	1.888	-5.1
35	[36]		1.84	1.775	-3.7	1.78	-3.4	1.777	-3.5
37	[37]		1.76	1.874	6.1	1.842	4.5	1.858	5.3
48	[41]		1.841	1.935	4.9	1.823	-1	1.879	2
61	[38]		2.04	2.035	-0.2	2.065	1.2	2.05	0.5
64	[26]		1.806	1.843	2	1.797	-0.5	1.82	0.8
65	[38]		1.903	1.843	-3.3	1.782	-6.8	1.812	-5
123	[58]		1.98	1.981	0.1	1.849	-7.1	1.915	-3.4
139	[64]		1.81	1.836	1.4	1.751	-3.4	1.794	-0.9
142	[64]		1.83	1.836	0.3	1.759	-4	1.797	-1.8
143	[64]		1.85	1.94	4.6	1.92	3.6	1.98	6.6

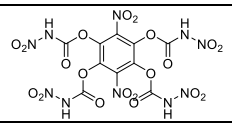
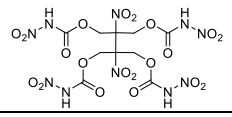
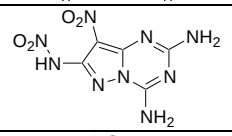
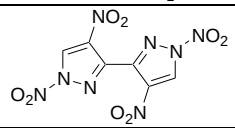
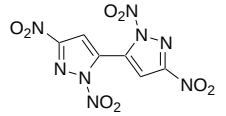
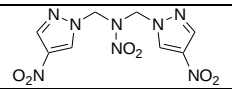
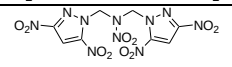
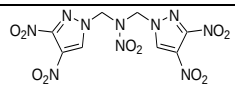
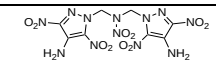
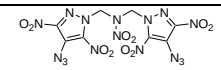
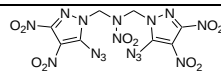
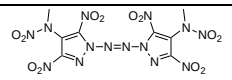
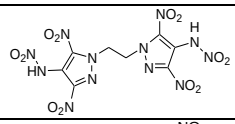
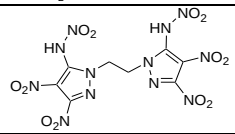
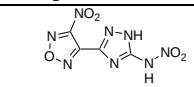
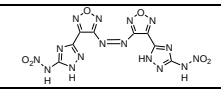
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
144	[64]		1.855	1.94	4.4	1.92	3.4	1.98	6.3
338	[96]		1.82		-	2.033	10.5	2.119	14.1
342	[96]		1.95	2.127	8.3	2.085	6.5	2.106	7.4
366	[96]		1.86	1.933	3.8	1.748	-6.4	1.841	-1

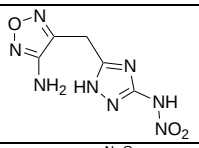
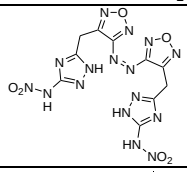
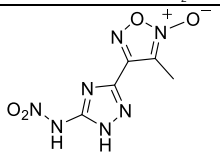
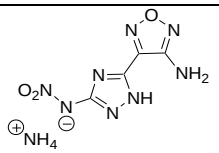
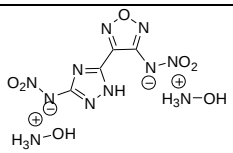
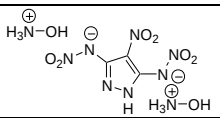
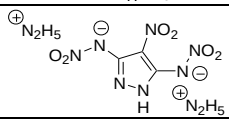
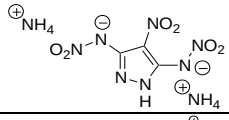
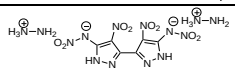
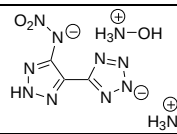
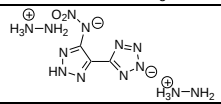
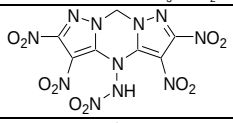
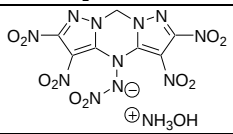
2.4.8 The densities of acyclic nitramines

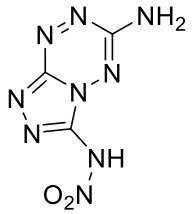
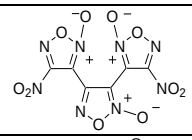
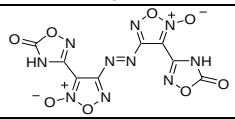
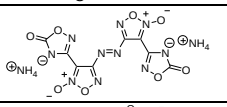
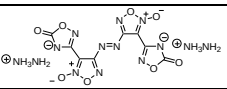
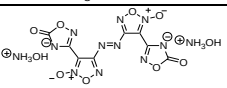
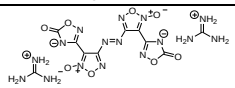
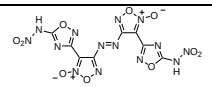
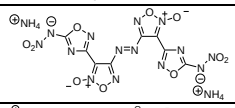
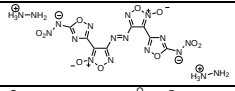
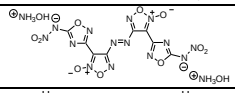
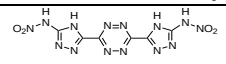
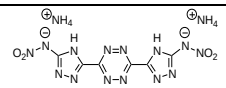
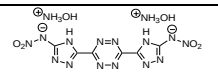
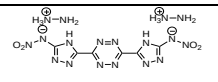
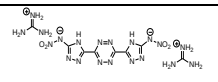
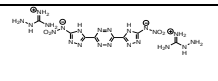
Table 80. Table summarizing the structural formulae, empirical formulae and the densities of the acyclic nitramines.

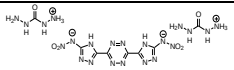
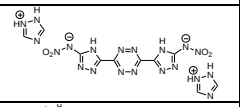
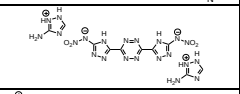
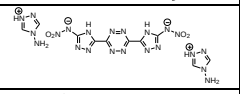
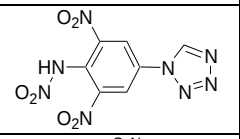
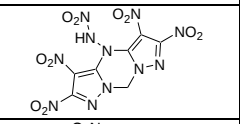
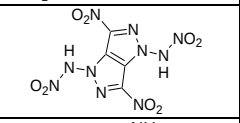
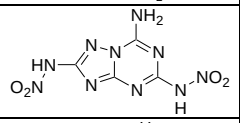
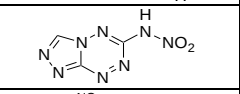
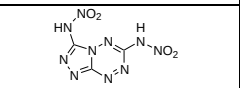
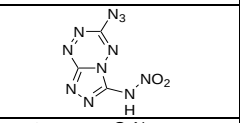
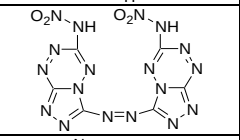
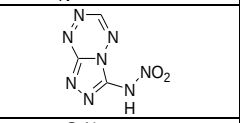
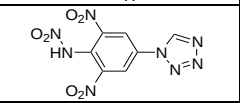
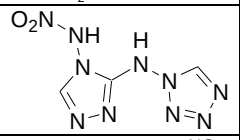
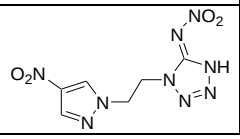
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
33	[36]		1.73		-		-	1.788	3.2	1.775	2.5	1.781	2.9
34	[36]		1.8		-		-	1.71	-5.3	1.726	-4.3	1.718	-4.8
54	[38]		1.87		-		-	2.017	7.3	1.937	3.5	1.977	5.4
66	[38]		1.87		-		-	1.819	-2.8	1.889	1	1.854	-0.9
78	[50]		1.72		-		-	1.778	3.3	1.711	-0.5	1.744	1.4
79	[50]		1.73		-		-	1.747	1	1.773	2.4	1.76	1.7
80	[50]		1.7		-	1.685	-0.9		-	1.651	-3	1.687	-0.8
81	[50]		1.89		-		-	1.786	-5.8	1.816	-4.1	1.762	-7.3

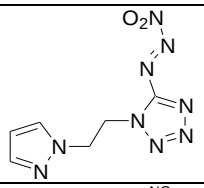
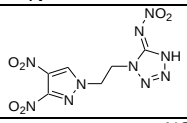
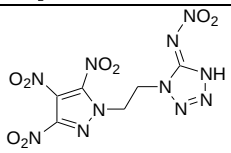
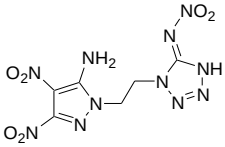
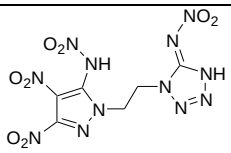
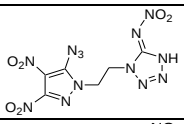
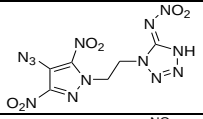
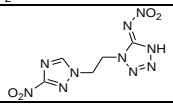
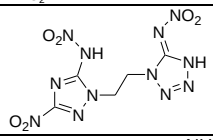
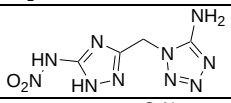
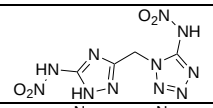
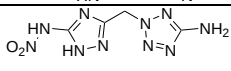
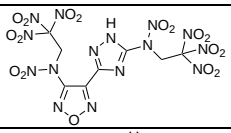
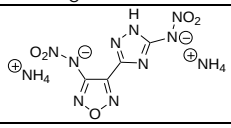
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
82	[50]		1.66		-		-	1.787	7.1	1.738	4.5	1.762	5.8
83	[50]		1.65		-		-	1.847	10.7	1.787	7.7	1.817	9.2
95	[53]		1.78		-		-	1.748	-1.8	1.781	0.1	1.764	-0.9
109	[56]		1.93		-		-	2.134	9.6	1.921	-0.5	2.027	4.8
110	[56]		1.795	1.724	-4.1		-		-	1.705	-5.3	1.715	-4.7
111	[56]		1.842	1.766	-4.3		-		-	1.751	-5.2	1.758	-4.8
112	[56]		1.753	1.736	-1		-		-	1.675	-4.7	1.706	-2.8
121	[26]		1.75		-		-	1.608	-8.8	1.646	-6.3	1.627	-7.6
123	[58]		1.98		-		-	1.981	0.1	1.849	-7.1	1.915	-3.4
124	[58]		1.95	1.728	-12.8		-		-	1.693	-15.2	1.711	-14
125	[58]		1.92	1.77	-8.5		-		-	1.725	-11.3	1.748	-9.8
126	[58]		1.79	1.67	-7.2		-		-	1.686	-6.2	1.678	-6.7

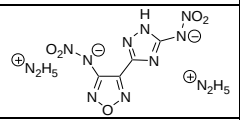
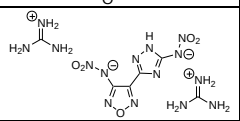
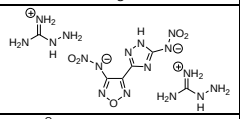
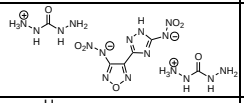
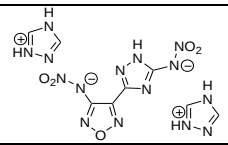
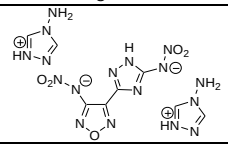
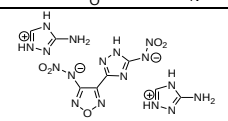
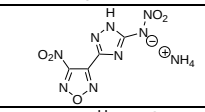
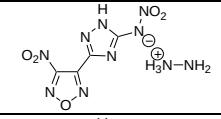
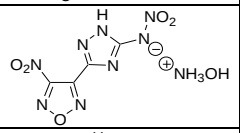
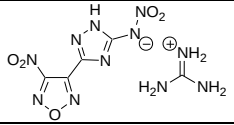
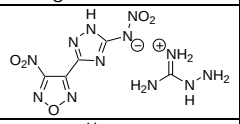
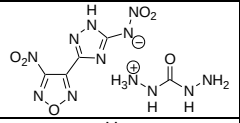
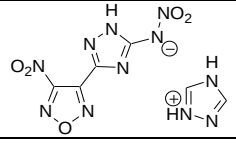
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
129	[60]		1.71		-		-	1.852	7.7	1.924	11.1	1.888	9.4
130	[60]		1.89		-		-	1.713	-10.3	1.764	-7.1	1.739	-8.7
136	[62]		1.89		-		-		-	1.825	-3.6	-	-
143	[64]		1.85		-		-	1.94	4.6	1.92	3.6	1.98	6.6
144	[64]		1.855		-		-	1.94	4.4	1.92	3.4	1.98	6.3
150	[65]		1.69		-		-	1.745	3.2	1.663	-1.6	1.704	0.8
151	[65]		1.789	1.78	-0.5		-	1.847	3.1	1.801	0.7	1.824	1.9
152	[65]		1.78		-		-	1.847	3.6	1.801	1.2	1.824	2.4
153	[65]		1.86		-		-	1.839	-1.1	1.82	-2.2	1.829	-1.7
154	[65]		1.83		-	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6
155	[65]		1.83		-	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6
168	[68]6		1.8		-		-	1.911	5.8	1.816	0.9	1.864	3.4
184	[70]		1.84		-		-	1.877	2	1.862	1.2	1.869	1.6
190	[70]		1.83		-		-	1.877	2.5	1.862	1.7	1.869	2.1
197	[73]		1.851		-		-	1.996	7.3	1.881	1.6	1.938	4.5
198	[73]		1.873		-		-	2.033	7.9	1.799	-4.1	1.916	2.2

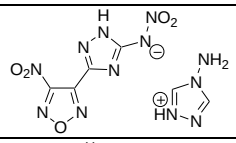
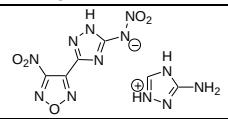
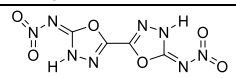
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
199	[73]		1.695		-		-	1.832	7.5	1.692	-0.2	1.762	3.8
200	[73]		1.704		-		-	1.924	11.4	1.692	-0.7	1.808	5.8
201	[73]		1.741		-		-	1.932	9.9	1.75	0.5	1.841	5.4
202	[73]		1.68	1.658	-1.3		-		-	1.679	-0.1	1.668	-0.7
203	[73]		1.85	1.736	-6.6		-		-	1.723	-7.4	1.73	-6.9
204	[74]		1.9	1.757	-8.1		-		-	1.757	-8.1	1.757	-8.1
205	[74]		1.87	1.684	-11		-		-	1.721	-8.7	1.703	-9.8
206	[74]		1.8	1.71	-5.3		-		-	1.707	-5.4	1.708	-5.4
207	[74]		1.85	1.707	-8.4		-		-	1.757	-5.3	1.732	-6.8
208	[74]		1.82	1.672	-8.9		-		-	1.644	-10.7	1.658	-9.8
209	[74]		1.71	1.588	-7.7		-		-	1.608	-6.3	1.598	-7
217	[75]		1.937		-		-	2.037	4.9	1.972	1.8	2.005	3.4
218	[75]		1.87	1.821	-2.7		-		-	1.897	1.4	1.859	-0.6

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
239	[81]		1.79		-		-	2.05	12.7	1.804	0.8	1.927	7.1
244	[83]		1.914		-		-		-	2.062	7.2	-	-
245	[84]		1.9		-		-		-	1.925	1.3	-	-
246	[84]		1.65	1.743	5.3		-		-	1.762	6.4	1.752	5.8
247	[84]		1.71	1.723	0.8		-		-	1.768	3.3	1.746	2.1
248	[84]		1.72	1.773	3		-		-	1.794	4.1	1.784	3.6
249	[84]		1.65	1.695	2.7		-		-	1.744	5.4	1.72	4.1
250	[84]		1.92		-		-	2.112	9.1	2.013	4.6	2.062	6.9
251	[84]		1.66	1.782	6.8		-		-	1.778	6.6	1.78	6.7
252	[84]		1.74	1.763	1.3		-		-	1.782	2.4	1.772	1.8
253	[84]		1.72	1.805	4.7		-		-	1.804	4.7	1.804	4.7
272	[91]		1.88		-		-	2.044	8	1.781	-5.6	1.913	1.7
274	[91]		1.79	1.674	-6.9		-		-	1.64	-9.1	1.657	-8
275	[91]		1.81	1.711	-5.8		-		-	1.645	-10	1.678	-7.9
276	[91]		1.78	1.657	-7.4		-		-	1.654	-7.6	1.655	-7.6
277	[91]		1.84	1.636	-12.5		-		-	1.644	-11.9	1.64	-12.2
278	[91]		1.79	1.624	-10.2		-		-	1.656	-8.1	1.64	-9.1

		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
279	[91]		1.82	1.657	-9.8		-		-	1.678	-8.5	1.667	-9.2
280	[91]		1.85	1.677	-10.3		-		-	1.676	-10.4	1.676	-10.4
281	[91]		1.84	1.664	-10.6		-		-	1.697	-8.4	1.68	-9.5
282	[91]		1.85	1.664	-11.2		-		-	1.686	-9.7	1.675	-10.4
294	[92]		1.76		-		-	1.882	6.5	1.755	-0.3	1.818	3.2
334	[96]		1.94		-		-	2.037	4.8	1.972	1.6	2.005	3.2
344	[96]		1.93		-		-	2	3.5	2.042	5.5	2.021	4.5
346	[96]		1.84		-		-	1.98	7.1	1.856	0.9	1.918	4.1
351	[96]		1.76		-		-	2.076	15.2	1.782	1.2	1.929	8.8
352	[96]		1.91		-		-	2.078	8.1	1.89	-1.1	1.984	3.7
357	[96]		1.85		-	1.456	-27.1	2.196	15.8	1.782	-3.8	1.619	-14.3
358	[96]		1.85		-		-	2.158	14.3	1.805	-2.5	1.982	6.7
360	[96]		1.81		-		-	2.076	12.8	1.782	-1.6	1.929	6.2
389	[99]		1.76		-		-	1.882	6.5	1.755	-0.3	1.755	-0.3
399	[99]		1.78		-		-	2.027	12.2	1.777	-0.2	1.902	6.4
402	[99]		1.65		-		-	1.818	9.2	1.649	-0.1	1.734	4.8

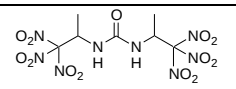
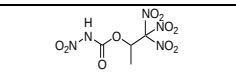
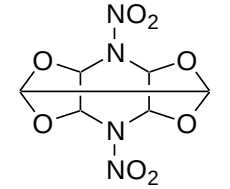
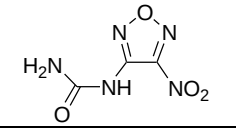
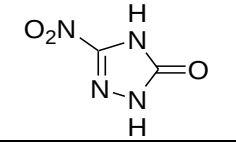
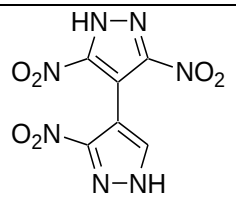
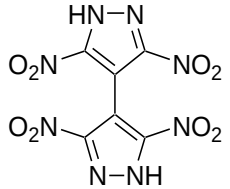
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
403	[99]		1.5		-		-	1.827	17.9	1.509	0.6	1.668	10.1
411	[99]		1.69		-		-	1.873	9.8	1.735	2.6	1.804	6.3
414	[99]		1.77		-		-	1.914	7.5	1.788	1	1.851	4.4
415	[99]		1.76		-		-	2.045	13.9	1.731	-1.7	1.888	6.8
416	[99]		1.84		-		-	1.907	3.5	1.791	-2.7	1.849	0.5
418	[99]		1.81		-	1.544	-17.2	1.971	8.2	1.453	-24.6	1.498	-20.8
419	[99]		1.78		-	1.544	-15.3	1.971	9.7	1.724	-3.2	1.634	-8.9
425	[99]		1.66		-		-	1.892	12.3	1.663	0.2	1.777	6.6
426	[99]		1.69		-		-	1.927	12.3	1.753	3.6	1.84	8.2
427	[99]		1.71		-		-	1.919	10.9	1.699	-0.6	1.809	5.5
428	[99]		1.81		-		-	1.966	7.9	1.785	-1.4	1.875	3.5
429	[99]		1.72		-		-	1.919	10.4	1.699	-1.2	1.809	4.9
435	[101]		1.932		-		-	1.92	-0.6	1.891	-2.2	1.905	-1.4
436	[101]		1.822	1.691	-7.7		-		-	1.676	-8.7	1.683	-8.3

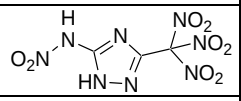
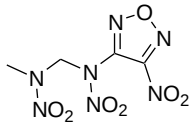
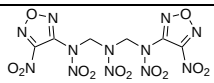
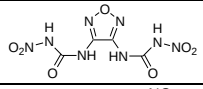
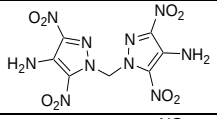
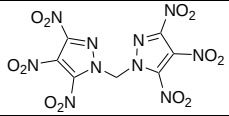
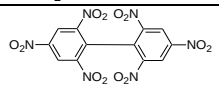
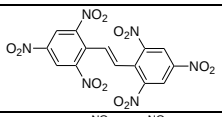
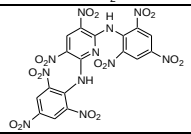
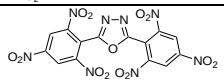
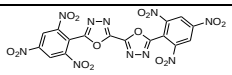
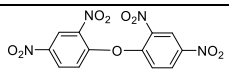
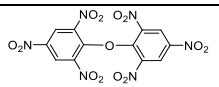
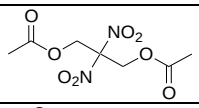
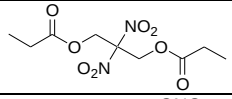
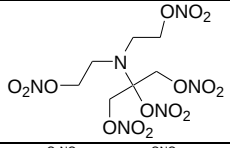
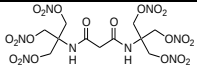
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
437	[101]		1.834	1.669	-9.9		-		-	1.691	-8.5	1.68	-9.2
438	[101]		1.659	1.641	-1.1		-		-	1.673	0.8	1.657	-0.1
439			1.679	1.627	-3.2		-		-	1.685	0.4	1.656	-1.4
440	[101]		1.687	1.665	-1.3		-		-	1.71	1.3	1.688	0.1
441			1.78	1.691	-5.3		-		-	1.711	-4	1.701	-4.6
442	[101]		1.761	1.674	-5.2		-		-	1.721	-2.3	1.698	-3.7
443	[101]		1.752	1.674	-4.7		-		-	1.735	-1	1.704	-2.8
444	[101]		1.815	1.763	-2.9		-		-	1.761	-3.1	1.762	-3
445	[101]		1.847	1.746	-5.8		-		-	1.766	-4.6	1.756	-5.2
446	[101]		1.844	1.785	-3.3		-		-	1.757	-5	1.771	-4.1
447	[101]		1.677	1.722	2.6		-		-	1.746	4	1.734	3.3
448	[101]		1.67	1.709	2.3		-		-	1.751	4.6	1.73	3.5
449	[101]		1.676	1.73	3.1		-		-	1.765	5	1.748	4.1
450	[101]		1.72	1.751	1.8		-		-	1.77	2.8	1.76	2.3

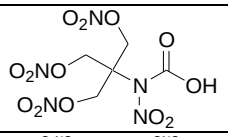
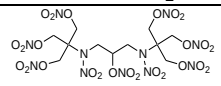
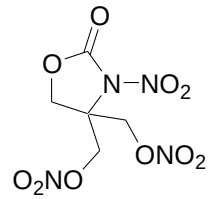
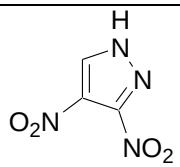
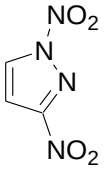
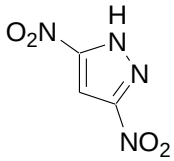
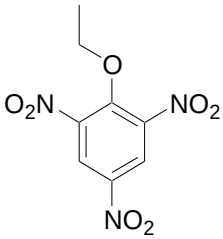
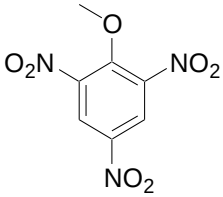
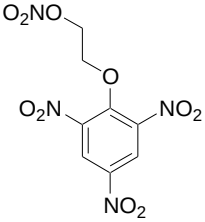
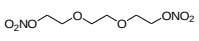
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
451	[101]		1.748	1.737	-0.6		-		-	1.774	1.5	1.756	0.5
452	[101]		1.716	1.737	1.2		-		-	1.784	3.8	1.76	2.5
453	[102]		1.99		-		-	1.981	-0.5	1.849	-7.6	1.915	-3.9

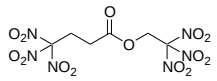
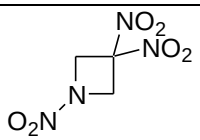
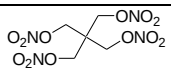
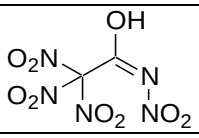
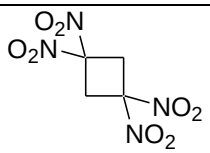
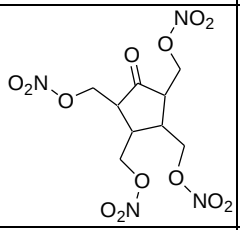
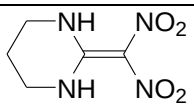
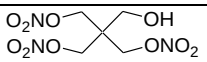
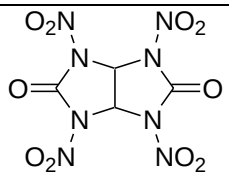
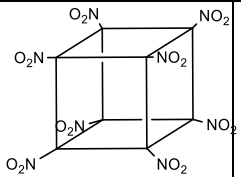
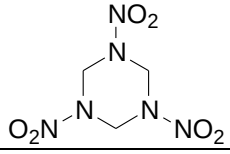
2.4.9 The densities of molecules containing nitro groups

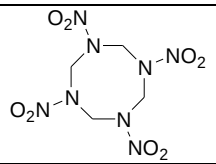
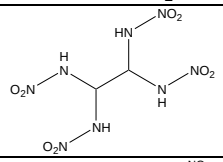
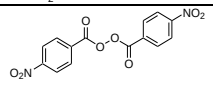
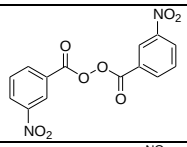
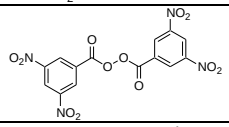
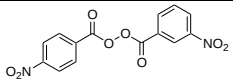
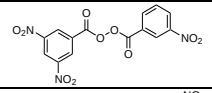
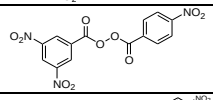
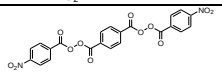
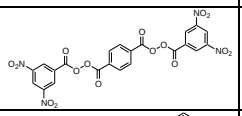
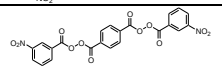
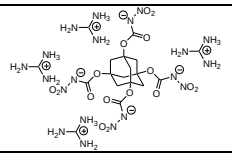
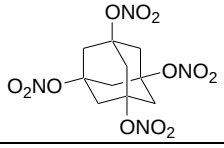
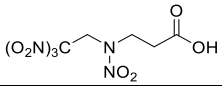
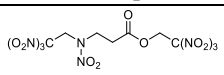
Table 81. Table summarizing the structural formulae, empirical formulae and the densities of the molecules containing nitro groups.

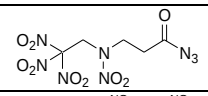
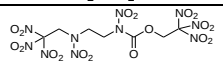
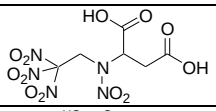
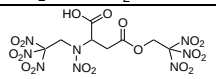
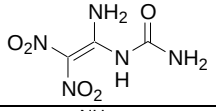
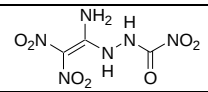
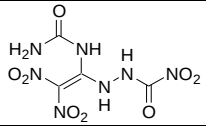
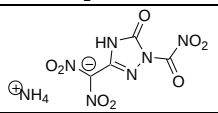
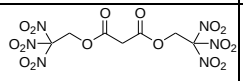
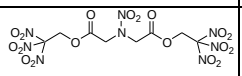
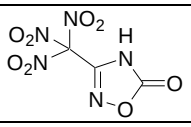
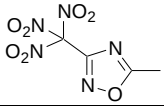
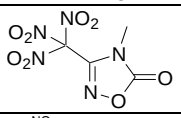
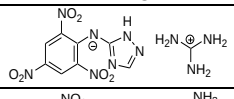
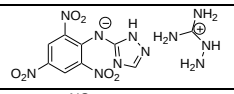
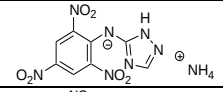
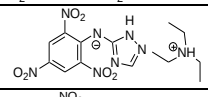
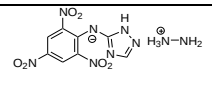
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
1	[22]			-		-	1.697	-7.2	1.712	-6.3	1.704	-6.8	
2	[22]			-		-	1.747	9.6	1.792	11.8	1.77	10.7	
3	[23] [24]			-		-	1.769	-12.2	2.007	1.1	1.888	-5.1	
4	[25]			-		-	1.862	9.8	1.811	7.2	1.837	8.5	
5	[23] [26]			-		-	1.9	-0.8	1.882	-1.8	1.891	-1.3	
6	[27]			-		-	1.897	2.2	1.854	-0.1	1.876	1.1	
7	[27]			-		-	1.94	6.2	1.927	5.6	1.933	5.8	

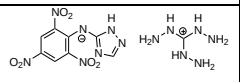
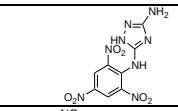
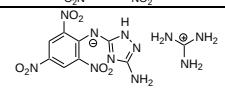
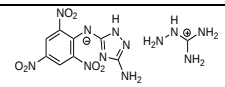
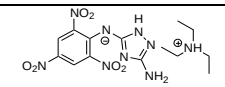
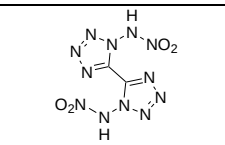
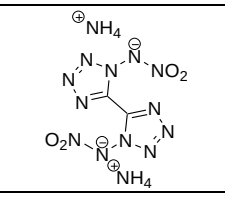
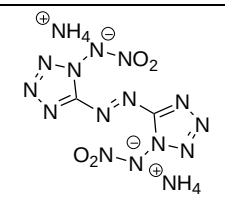
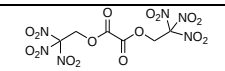
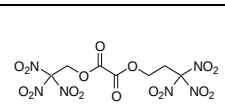
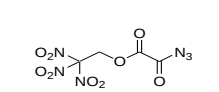
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
9	[28]			-		-	2.064	7.5	1.957	2.4	2.01	5	
10	[29]			-		-	1.921	9.4	1.767	1.5	1.844	5.6	
11	[29]			-		-	1.932	1.7	1.884	-0.8	1.908	0.4	
16	[25]			-		-	1.892	1.2	1.875	0.3	1.883	0.7	
17	[31]			-		-	1.858	3	1.838	2	1.848	2.5	
18	[31]			-		-	1.941	0.4	1.933	-0.1	1.937	0.2	
19	[32] [26]			-		-	1.797	5.7	1.776	4.6	1.786	5.2	
20	[32]			-		-	1.749	0.5	1.704	-2.1	1.727	-0.8	
21	[32]			-		-	1.813	3.1	1.776	1.1	1.794	2.1	
22	[32] [33]			-		-	1.831	3.3	1.779	0.5	1.805	1.9	
23	[32]			-		-	1.857	1.1	1.781	-3.1	1.819	-1	
24	[34]			-		-	1.606	-5.2	1.667	-1.3	1.637	-3.2	
25	[34]			-		-	1.71	0.6	1.792	5.1	1.746	2.6	
29	[35]			-		-	1.423	6.5	1.478	10	1.347	1.3	
30	[35]			-		-	1.309	6.8	1.386	12	1.348	9.5	
31	[36]			-		-	1.602	-5.5	1.632	-3.6	1.617	-4.5	
32	[36]			-		-	1.606	-4	1.632	-2.3	1.619	-3.2	

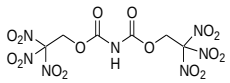
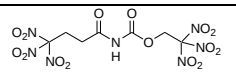
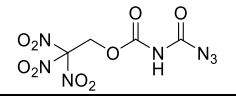
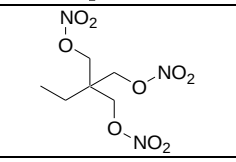
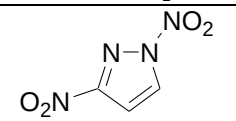
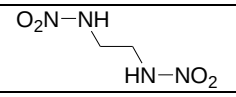
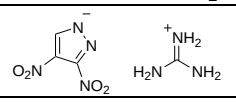
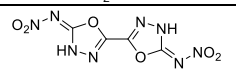
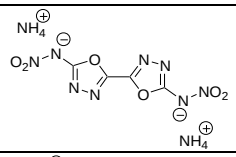
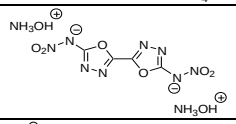
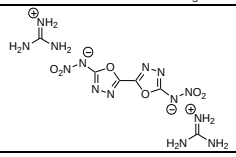
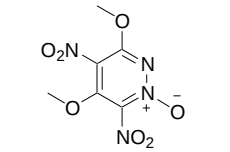
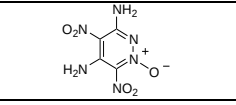
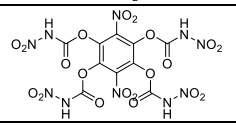
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
33	[36]			-		-	1.788	3.2	1.775	2.5	1.781	2.9	
34	[36]			-		-	1.71	-5.3	1.726	-4.3	1.718	-4.8	
35	[36]			-		-	1.775	-3.7	1.78	-3.4	1.777	-3.5	
36	[37]			-		-	1.874	4.5	1.849	3.2	1.861	3.8	
37	[37]			-		-	1.874	6.1	1.842	4.5	1.858	5.3	
38	[37]			-		-	1.874	5	1.849	3.7	1.861	4.4	
39	[26]			-		-	1.59	2.3	1.59	2.3	1.59	2.3	
40	[38]			-		-	1.665	-2.1	1.665	-2.1	1.665	-2.1	
41	[38]			-		-	1.684	-2.3	1.707	-0.9	1.696	-1.6	
44	[38]			-		-	1.273	-5.6	1.452	7.4	1.362	1.3	

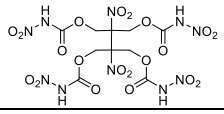
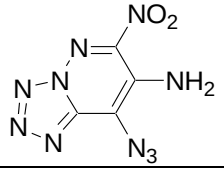
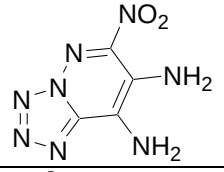
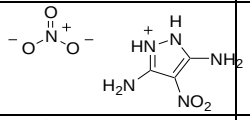
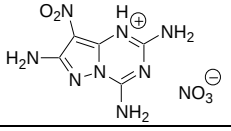
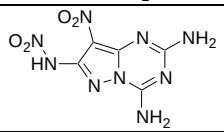
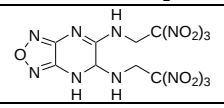
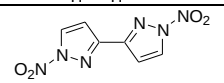
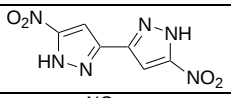
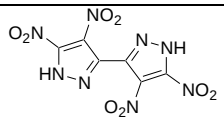
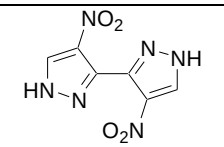
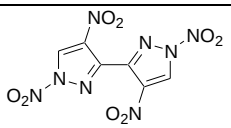
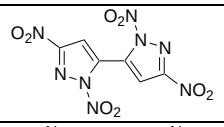
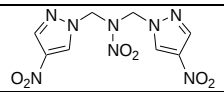
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
45	[38]			-		-	1.748	-1.8	1.78	0	1.764	-0.9	
48	[41]			-		-	1.935	4.9	1.823	-1	1.879	2	
51	[44]			-		-	1.768	0.5	1.706	-3.2	1.737	-1.3	
54	[38]			-		-	2.017	7.3	1.937	3.5	1.977	5.4	
55	[38]			-		-	1.837	0.4	1.819	-0.6	1.828	-0.1	
56	[38]			-		-	1.486	-4.3	1.622	4.4	1.554	0.3	
59	[47]			-		-	1.618	-2	1.567	-5.3	1.593	-3.6	
60	[38]			-		-	1.622	5.1	1.642	6.2	1.632	5.6	
61	[38]			-		-	2.035	-0.2	2.065	1.2	2.05	0.5	
62	[38]			-		-	2.013	1.7	2.202	10.1	2.107	6.1	
64	[26]			-		-	1.843	2	1.797	-0.5	1.82	0.8	

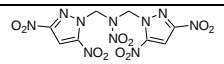
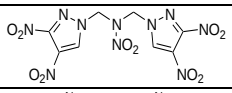
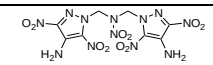
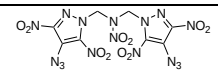
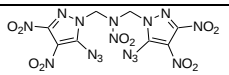
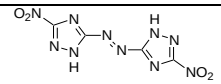
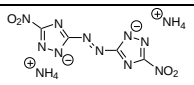
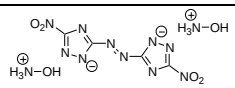
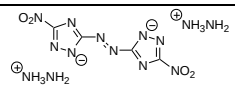
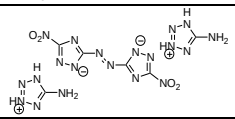
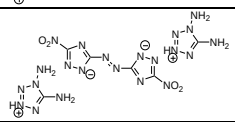
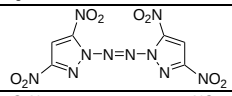
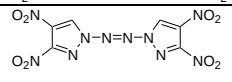
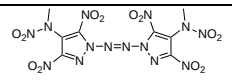
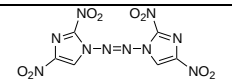
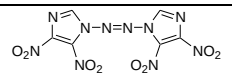
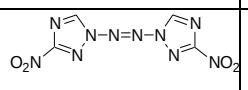
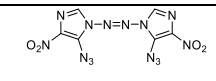
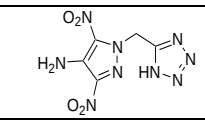
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
65	[38]			-		-	1.843	-3.3	1.782	-6.8	1.812	-5	
66	[38]			-		-	1.819	-2.8	1.889	1	1.854	-0.9	
67	[48]			-		-	1.566	-2.8	1.547	-4.1	1.556	-3.5	
68	[48]			-		-	1.566	-2.7	1.547	-3.9	1.556	-3.3	
69	[48]			-		-	1.701	-1	1.686	-1.9	1.694	-1.4	
70	[48]			-		-	1.566	-6.6	1.547	-8	1.556	-7.3	
71	[48]			-		-	1.642	-3.5	1.622	-4.8	1.632	-4.2	
72	[48]			-		-	1.642	-2.9	1.622	-4.2	1.632	-3.6	
73	[48]			-		-	1.545	5.5	1.532	4.7	1.538	5.1	
74	[48]			-		-	1.646	8.3	1.631	7.4	1.639	7.9	
75	[48]			-		-	1.545	6.1	1.532	5.4	1.538	5.7	
76	[49]		1.551	0.7		-		-	1.561	1.3	1.556	1	1.551
77	[49]			-		-	1.534	-8.1	1.705	2.7	1.619	-2.5	
78	[50]			-		-	1.778	3.3	1.711	-0.5	1.744	1.4	
79	[50]			-		-	1.747	1	1.773	2.4	1.76	1.7	

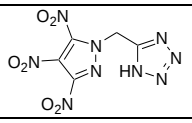
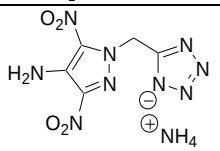
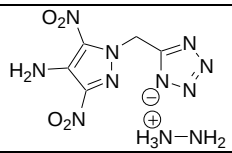
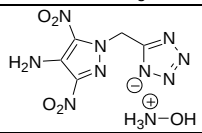
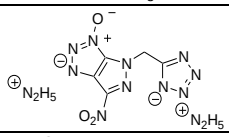
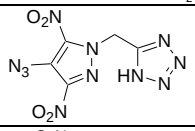
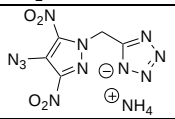
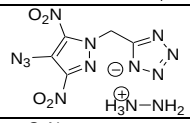
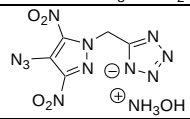
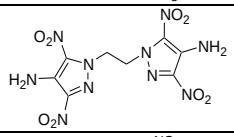
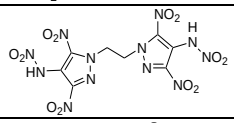
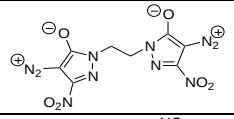
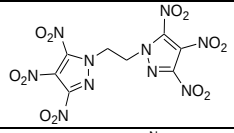
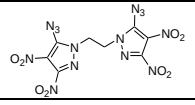
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
80	[50]			-	1.685	-0.9		-	1.651	-3	1.687	-0.8	
81	[50]			-		-	1.786	-5.8	1.816	-4.1	1.762	-7.3	
82	[50]			-		-	1.787	7.1	1.738	4.5	1.762	5.8	
83	[50]			-		-	1.847	10.7	1.787	7.7	1.817	9.2	
90	[52]			-		-	1.744	-6.7	1.77	-5.1	1.757	-5.9	
91	[52]			-		-	1.831	2.2	1.862	3.9	1.847	3.1	
92	[52]			-		-	1.818	6.5	1.841	7.7	1.829	7.1	
93	[52]		1.82	0		-		-	1.827	0.4	1.824	0.2	1.82
94	[53]			-		-	1.748	-0.7	1.789	1.6	1.768	0.5	
95	[53]			-		-	1.748	-1.8	1.781	0.1	1.764	-0.9	
96	[54]			-		-	1.92	-1.6	1.972	1.1	1.946	-0.2	
97	[54]			-		-	1.834	-0.3	1.784	-3.1	1.809	-1.7	
98	[54]			-		-	1.829	1.6	1.833	1.8	1.831	1.7	
99	[55]		1.657	-0.5		-		-	1.652	-0.8	1.655	-0.7	1.657
100	[55]		1.648	-9.2		-		-	1.66	-8.4	1.654	-8.8	1.648
101	[55]		1.682	-9.4		-		-	1.651	-11.4	1.667	-10.4	1.682
102	[55]		1.474	-3.8		-		-	1.384	-10.5	1.429	-7.1	1.474
103	[55]		1.672	3.1		-		-	1.659	2.4	1.665	2.7	1.672

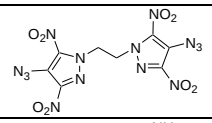
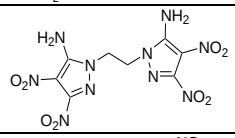
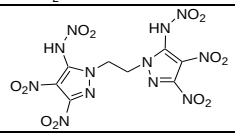
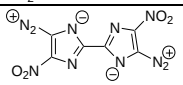
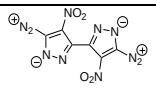
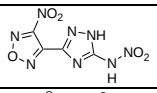
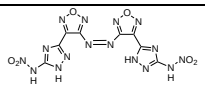
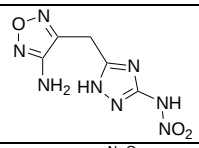
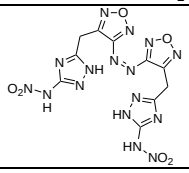
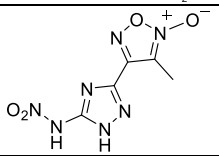
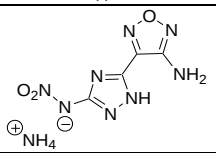
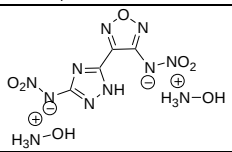
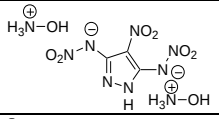
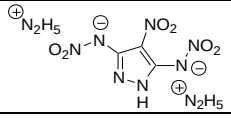
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
104	[55]		1.634	2.7		-		-	1.673	5	1.653	3.8	1.634
105	[55]			-		-	1.989	7	1.746	-6	1.868	1	
106	[55]		1.648	3.5		-		-	1.667	4.6	1.657	4	1.648
107	[55]		1.641	-1.2		-		-	1.674	0.8	1.657	-0.2	1.641
108	[55]		1.473	-1.8		-		-	1.402	-7	1.438	-4.3	1.473
109	[56]			-		-	2.134	9.6	1.921	-0.5	2.027	4.8	
110	[56]		1.724	-4.1		-		-	1.705	-5.3	1.715	-4.7	1.724
111	[56]		1.766	-4.3		-		-	1.751	-5.2	1.758	-4.8	1.766
112	[56]		1.736	-1		-		-	1.675	-4.7	1.706	-2.8	1.736
113	[57]			-		-	1.797	-2.4	1.851	0.6	1.824	-0.9	
114	[57]			-		-	1.748	1	1.789	3.3	1.769	2.2	
115	[57]			-	1.858	5.8		-	1.782	1.8	1.82	3.8	

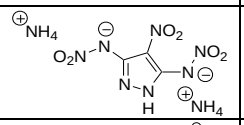
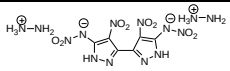
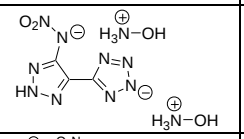
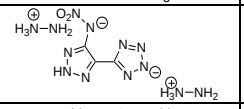
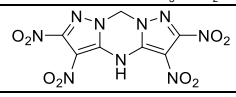
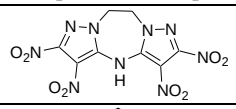
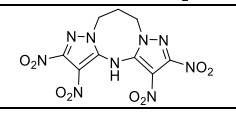
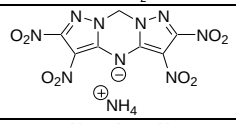
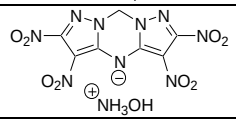
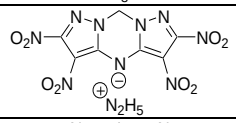
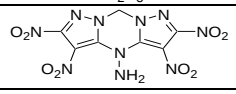
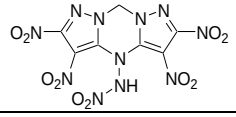
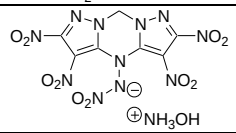
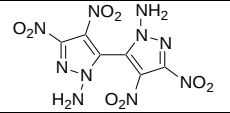
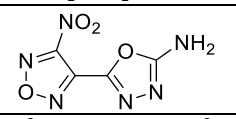
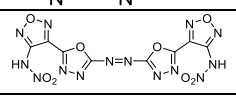
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
116	[57]			-		-	1.795	-7	1.851	-3.7	1.823	-5.3	
117	[57]			-		-	1.748	6.8	1.776	8.2	1.762	7.5	
118	[57]			-	1.878	20.1		-	1.785	16	1.831	18.1	
119	[26]			-		-	1.445	-3.8	1.527	1.8	1.529	1.9	
120	[37]			-		-	1.874	6.1	1.842	4.5	1.858	5.3	
121	[26]			-		-	1.608	-8.8	1.646	-6.3	1.627	-7.6	
122	[37]		1.669	2.3		-		-	1.68	3	1.675	2.7	1.669
123	[58]			-		-	1.981	0.1	1.849	-7.1	1.915	-3.4	
124	[58]		1.728	-12.8		-		-	1.693	-15.2	1.711	-14	1.728
125	[58]		1.77	-8.5		-		-	1.725	-11.3	1.748	-9.8	1.77
126	[58]		1.67	-7.2		-		-	1.686	-6.2	1.678	-6.7	1.67
127	[59]			-		-	1.764	9.9	1.659	4.2	1.712	7.1	
128	[59]			-		-	2.116	13	1.841	0.1	1.978	7	
129	[60]			-		-	1.852	7.7	1.924	11.1	1.888	9.4	

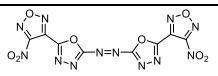
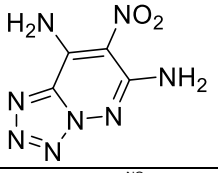
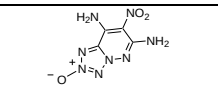
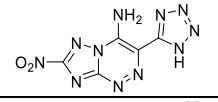
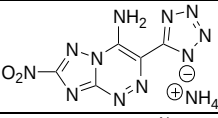
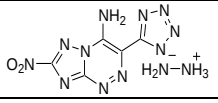
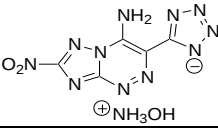
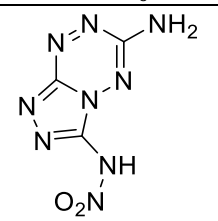
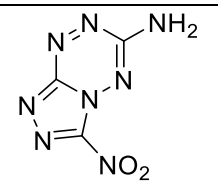
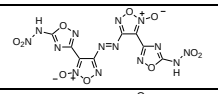
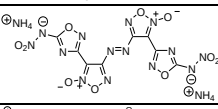
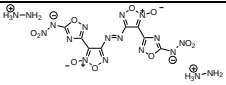
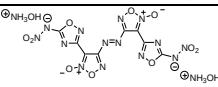
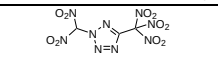
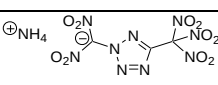
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
130	[60]			-		-	1.713	-10.3	1.764	-7.1	1.739	-8.7	
131	[61]			-	1.39	-30.9	2.107	13.6	1.749	-4.1	1.57	-15.9	
132	[61]			-		-	1.948	7.6	1.766	-1.9	1.857	3.1	
133	[62]		1.732	-1.6		-		-	1.852	5	1.792	1.8	1.732
135	[62]		1.817	-0.2		-		-	1.816	-0.2	1.817	-0.2	1.817
136	[62]			-		-		-	1.825	-3.6	-	-	
138	[63]			-		-	1.83	1.6	1.806	0.3	1.818	1	
139	[64]			-		-	1.836	1.4	1.751	-3.4	1.794	-0.9	
140	[64]			-		-	1.836	1.4	1.759	-2.9	1.797	-0.7	
141	[64]			-		-	1.94	5.2	1.927	4.5	1.933	4.8	
142	[64]			-		-	1.836	0.3	1.759	-4	1.797	-1.8	
143	[64]			-		-	1.94	4.6	1.92	3.6	1.98	6.6	
144	[64]			-		-	1.94	4.4	1.92	3.4	1.98	6.3	
150	[65]			-		-	1.745	3.2	1.663	-1.6	1.704	0.8	

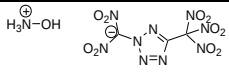
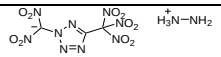
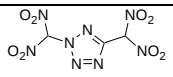
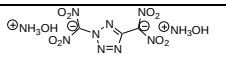
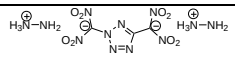
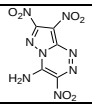
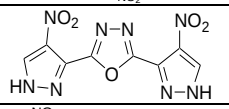
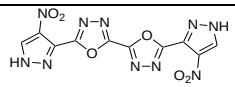
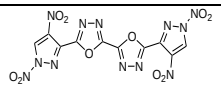
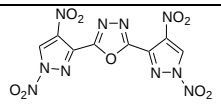
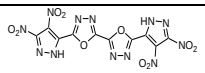
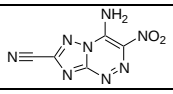
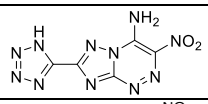
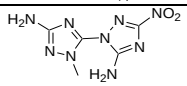
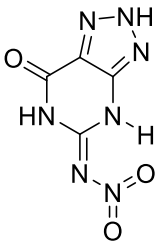
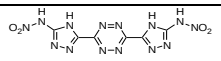
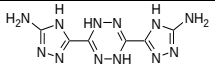
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
151	[65]		1.78	-0.5		-	1.847	3.1	1.801	0.7	1.824	1.9	1.78
152	[65]			-		-	1.847	3.6	1.801	1.2	1.824	2.4	
153	[65]			-		-	1.839	-1.1	1.82	-2.2	1.829	-1.7	
154	[65]			-	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6	
155	[65]			-	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6	
156	[66]			-		-	2.062	8.8	1.795	-4.7	1.928	2.5	
157	[66]		1.693	-4		-		-	1.614	-9	1.654	-6.4	1.693
158	[66]		1.739	-4.7		-		-	1.664	-9.4	1.702	-6.9	1.739
159	[66]		1.671	-7.7		-		-	1.634	-10.2	1.652	-9	1.671
160	[66]		1.724	0.8		-		-	1.736	1.5	1.73	1.2	1.724
161	[66]		1.706	-4.9		-		-	1.744	-2.6	1.725	-3.8	1.706
166	[68]**4**			-		-	1.983	8.7	1.852	2.3	1.917	5.6	
167	[68]**5**			-		-	1.983	8.2	1.852	1.7	1.917	5.1	
168	[68]**6**			-		-	1.911	5.8	1.816	0.9	1.864	3.4	
169	[68]**7**			-		-	1.983	6.7	1.852	0.1	1.917	3.5	
170	[68]**8**			-		-	1.983	7.7	1.852	1.2	1.917	4.5	
171	[68]			-		-	2.062	12.7	1.77	-1.7	1.916	6.1	
172	[68]			-	1.47	-20.4		-	1.712	-3.4	1.591	-11.3	
173	[69]			-		-	2.08	12	1.753	-4.4	1.917	4.5	

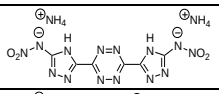
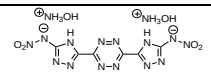
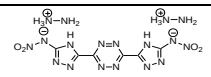
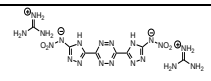
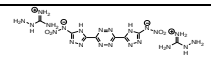
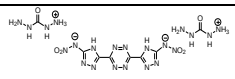
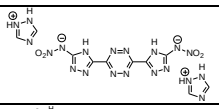
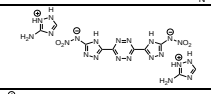
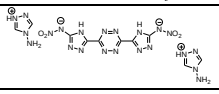
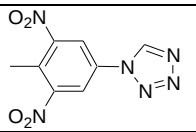
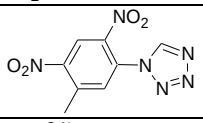
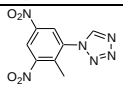
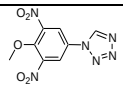
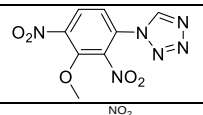
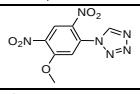
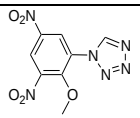
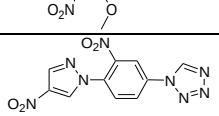
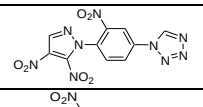
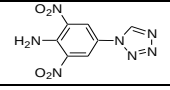
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
174	[69]			-		-	1.958	5	1.824	-2	1.891	1.6	
175	[69]		1.669	-0.7		-		-	1.659	-1.3	1.664	-1	1.669
176	[69]		1.812	8.9		-		-	1.668	1.1	1.74	5.2	1.812
177	[69]		1.695	-3.2		-		-	1.685	-3.9	1.69	-3.6	1.695
178	[69]		1.604	-5.4		-		-	1.658	-1.9	1.631	-3.6	1.604
179	[69]			-	1.473	-23	2.031	10.8	1.741	-4.1	1.607	-12.8	
180	[69]		1.725	4.9		-		-	1.657	1	1.691	3	1.725
181	[69]		1.712	-0.5		-		-	1.665	-3.3	1.688	-1.9	1.712
182	[69]		1.746	-0.8		-		-	1.659	-6.1	1.703	-3.3	1.746
183	[70]			-		-	1.799	1.6	1.768	-0.1	1.784	0.8	
184	[70]			-		-	1.877	2	1.862	1.2	1.869	1.6	
185	[70]		1.765	2.5		-	1.926	10.7	1.724	0.2	1.805	4.7	1.765
186	[70]			-		-	1.887	2.5	1.863	1.2	1.875	1.9	
187	[70]			-	1.543	-15.4	1.983	10.2	1.75	-1.7	1.647	-8.1	

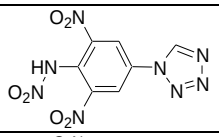
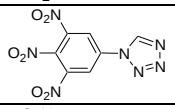
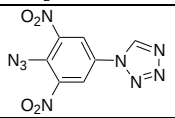
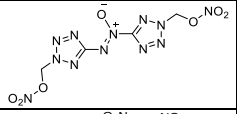
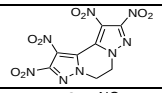
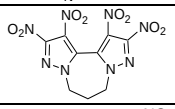
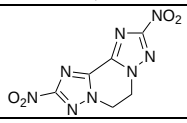
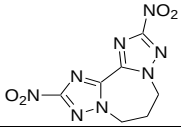
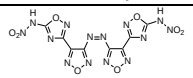
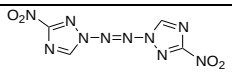
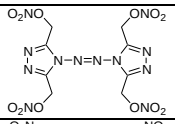
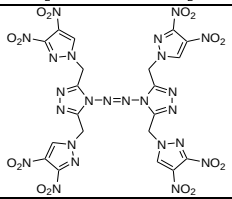
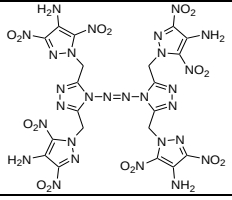
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
188	[70]			-	1.543	-14.1	1.983	11.2	1.75	-0.6	1.647	-6.9	
189	[70]			-		-	1.799	2.7	1.768	1	1.784	1.9	
190	[70]			-		-	1.877	2.5	1.862	1.7	1.869	2.1	
195	[72]		1.829	-0.1		-	2.112	13.4	1.757	-4.2	1.899	3.6	1.829
196	[72]		1.829	-1.1		-	2.112	12.4	1.757	-5.3	1.899	2.6	1.829
197	[73]			-		-	1.996	7.3	1.881	1.6	1.938	4.5	
198	[73]												
199	[73]						1.832		1.692		1.762		
200	[73]						1.924		1.692		1.808		
201	[73]						1.932		1.75		1.841		
202	[73]		1.658						1.679		1.668		1.658
203	[73]		1.736						1.723		1.73		1.736
204	[74]		1.757						1.757		1.757		1.757
205	[74]		1.684						1.721		1.703		1.684

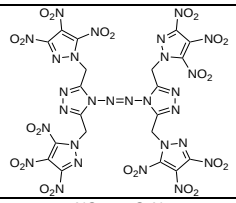
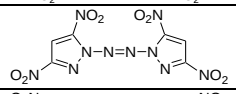
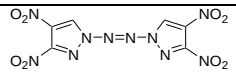
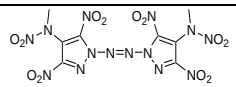
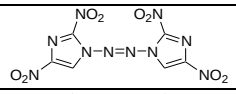
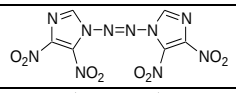
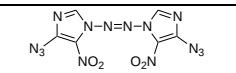
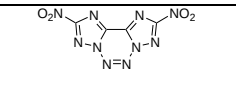
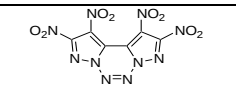
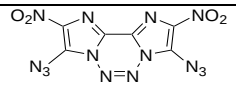
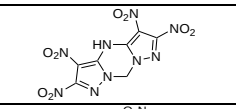
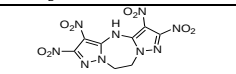
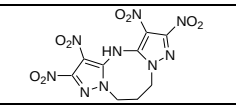
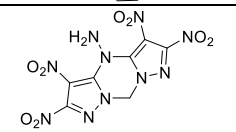
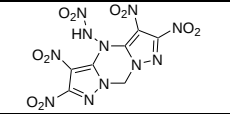
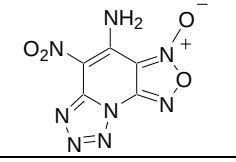
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
206	[74]		1.71						1.707		1.708		1.71
207	[74]		1.707						1.757		1.732		1.707
208	[74]		1.672						1.644		1.658		1.672
209	[74]		1.588						1.608		1.598		1.588
210	[75]						2.014		1.932		1.973		
211	[75]						1.949		1.847		1.898		
212	[75]						1.89		1.775		1.833		
213	[75]		1.775						1.836		1.805		1.775
214	[75]		1.791						1.853		1.822		1.791
215	[75]		1.762						1.791		1.776		1.762
216	[75]						2.005		1.929		1.967		
217	[75]						2.037		1.972		2.005		
218	[75]		1.821						1.897		1.859		1.821
219	[76]						1.922		1.921		1.922		
220	[77]						1.95		1.823		1.976		
221	[77]						2.033		1.826		1.929		

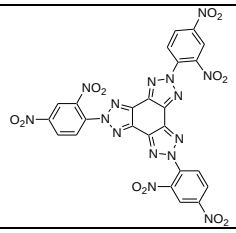
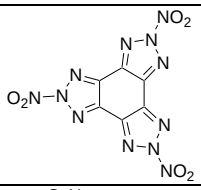
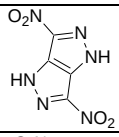
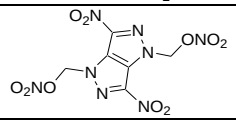
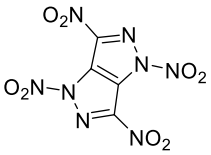
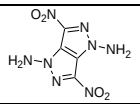
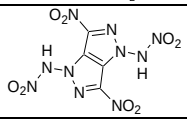
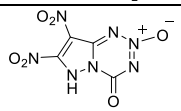
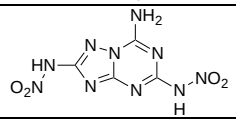
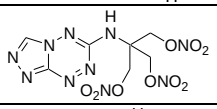
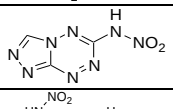
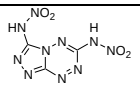
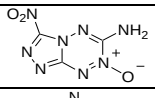
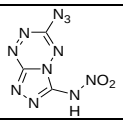
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
222	[77]						2.056		1.824		1.94		
223	[78]						1.948		1.766		1.857		
224	[78]						2.033		1.856		1.945		
231	[80]						2.067		1.776		1.921		
233	[80]		1.674						1.676		1.675		1.674
234	[80]		1.662						1.685		1.673		1.662
235	[80]		1.701						1.678		1.69		1.701
239	[81]						2.05		1.804		1.927		
240	[81]						1.769		1.8		1.784		
250	[84]						2.112		2.013		2.062		
251	[84]		1.782						1.778		1.78		1.782
252	[84]		1.763						1.782		1.772		1.763
253	[84]		1.805						1.804		1.804		1.805
254	[85]						1.997		1.95		1.974		
255	[85]		1.884						1.896		1.89		1.884

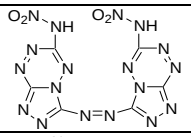
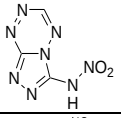
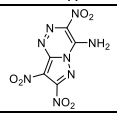
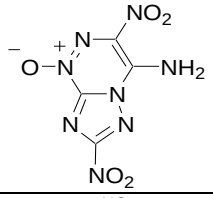
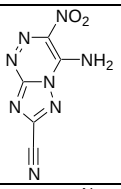
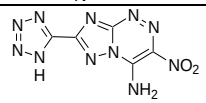
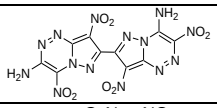
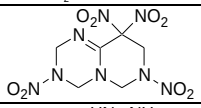
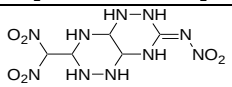
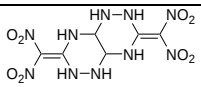
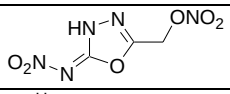
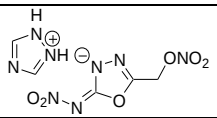
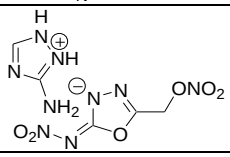
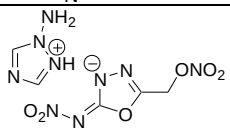
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
256	[85]		1.896						1.912		1.896		1.896
257	[85]		1.866						1.904		1.895		1.866
258	[85]		1.964						1.881		1.922		1.964
259	[85]		1.814						1.82		1.817		1.814
260	[85]		1.751						1.787		1.769		1.751
261	[86]						1.971		1.897		1.934		
262	[87]						1.884		1.768		1.826		
263	[87]						1.914		1.773		1.843		
264	[87]						1.972		1.903		1.976		
265	[87]						1.959		1.897		1.92		
266	[87]						1.972		1.885		1.929		
267	[88]						2.056		1.729		1.893		
268	[88]						2.067		1.776		1.921		
269	[89]						1.831		1.657		1.744		
271	[90]						1.949		1.856		1.903		
272	[91]						2.044		1.781		1.913		
273	[91]								1.659		-		

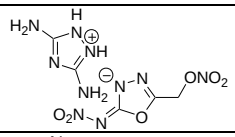
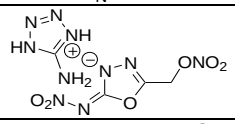
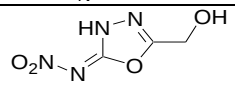
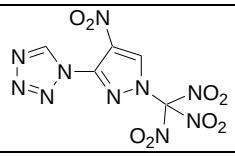
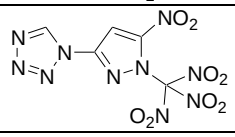
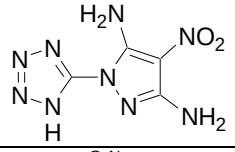
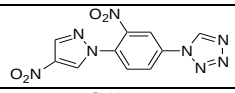
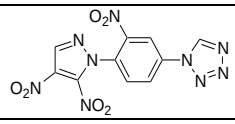
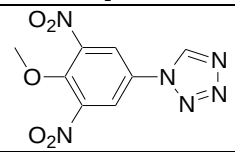
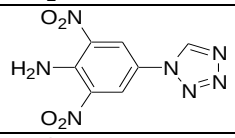
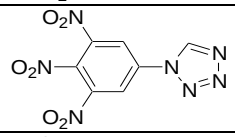
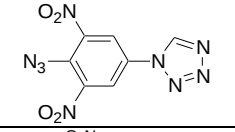
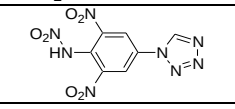
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
274	[91]		1.674						1.64		1.657		1.674
275	[91]		1.711						1.645		1.678		1.711
276	[91]		1.657						1.654		1.655		1.657
277	[91]		1.636						1.644		1.64		1.636
278	[91]		1.624						1.656		1.64		1.624
279	[91]		1.657						1.678		1.667		1.657
280	[91]		1.677						1.676		1.676		1.677
281	[91]		1.664						1.697		1.68		1.664
282	[91]		1.664						1.686		1.675		1.664
284	[92]								1.577		1.661		
285	[92]						1.745		1.577		1.661		
286	[92]						1.745		1.577		1.661		
287	[92]						1.746		1.608		1.677		
288	[92]						1.746		1.608		1.677		
289	[92]						1.746		1.608		1.677		
290	[92]						1.746		1.608		1.677		
291	[92]						1.812		1.627		1.72		
292	[92]						1.862		1.705		1.784		
293	[92]						1.825		1.675		1.75		

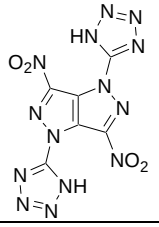
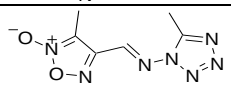
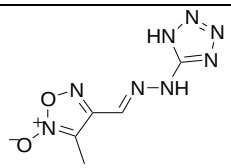
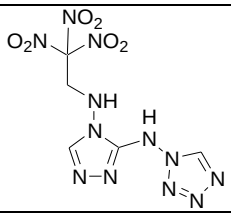
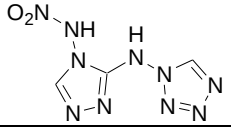
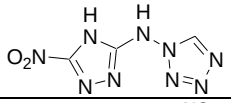
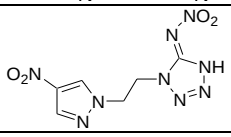
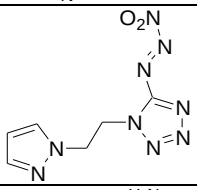
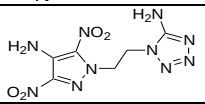
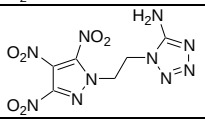
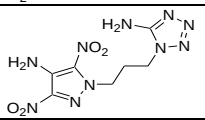
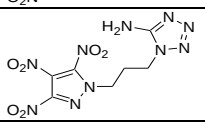
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
294	[92]						1.882		1.755		1.818		
295	[92]						1.89		1.75		1.82		
296	[92]				1.361		1.964		1.671		1.665		
299	[93]						1.937		1.756		1.847		
301	[94]						1.866		1.847		1.857		
302	[94]						1.803		1.772		1.788		
303	[94]						1.905		1.763		1.834		
304	[94]						1.82		1.677		1.748		
314	[95]						2.033		1.826		1.929		
315	[95]						2.062		1.77		1.916		
316	[95]						1.833		1.687		1.76		
318	[95]						1.889		1.742		1.816		
319	[95]						1.879		1.763		1.821		

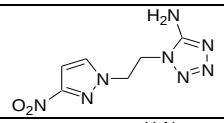
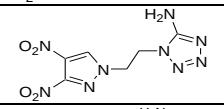
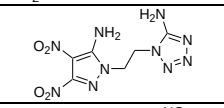
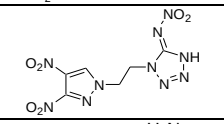
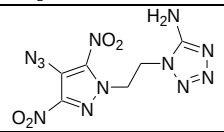
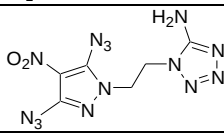
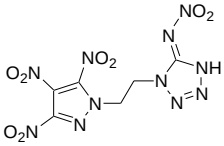
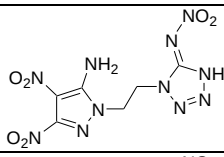
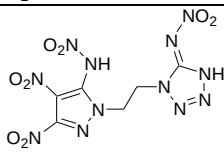
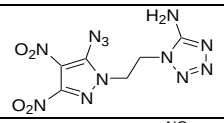
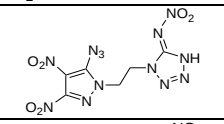
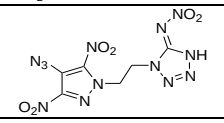
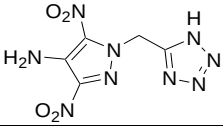
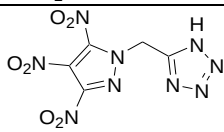
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
320	[95]						1.944		1.843		1.893		
321	[95]						1.983		1.852		1.917		
322	[95]						1.983		1.852		1.917		
323	[95]						1.911		1.816		1.864		
324	[95]						1.983		1.852		1.917		
325	[95]						1.983		1.852		1.917		
326	[95]				1.47		2.107		1.712		1.591		
327	[96]						2.146		1.949		2.047		
328	[96]						2.044		1.994		2.019		
329	[96]				1.47		2.171		1.835		1.652		
330	[96]						2.014		1.932		1.973		
331	[96]						1.949		1.847		1.898		
332	[96]						1.89		1.775		1.833		
333	[96]						2.005		1.929		1.967		
334	[96]						2.037		1.972		2.005		
335	[96]						1.939		1.944		2.03		

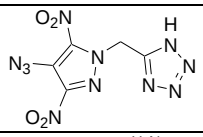
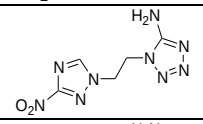
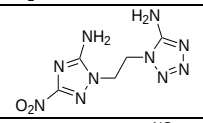
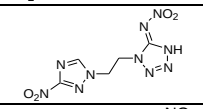
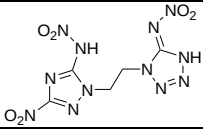
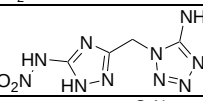
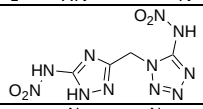
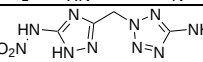
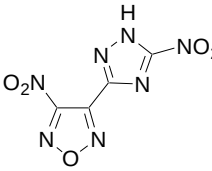
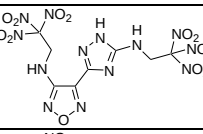
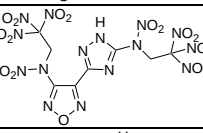
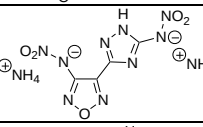
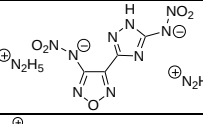
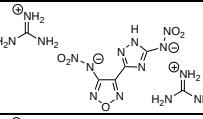
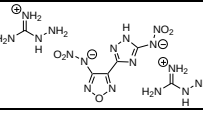
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
336	[96]						1.834		1.719		1.776		
338	[96]								2.033		2.119		
340	[96]						1.95		1.942		1.946		
341	[96]						1.863		1.856		1.86		
342	[96]						2.127		2.085		2.106		
343	[96]						1.921		1.93		1.925		
344	[96]						2		2.042		2.021		
345	[96]						2.095		2.024		2.059		
346	[96]						1.98		1.856		1.918		
350	[96]						1.799		1.7		1.749		
351	[96]						2.076		1.782		1.929		
352	[96]						2.078		1.89		1.984		
353	[96]						2.327		1.898		2.112		
357	[96]				1.456		2.196		1.782		1.619		

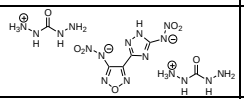
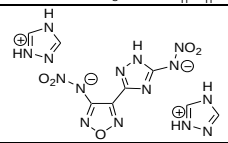
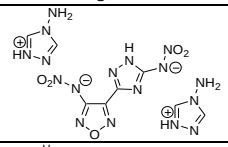
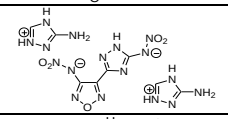
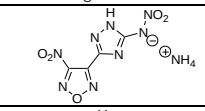
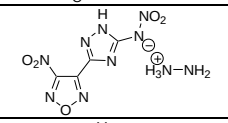
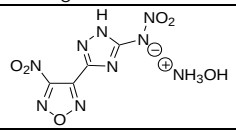
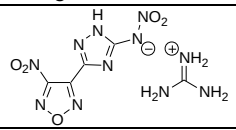
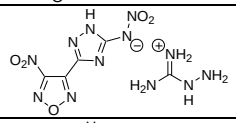
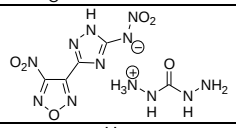
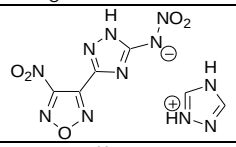
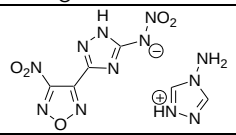
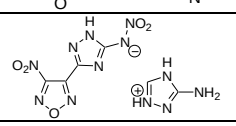
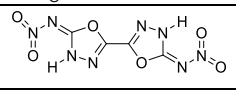
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
358	[96]						2.158		1.805		1.982		
360	[96]						2.076		1.782		1.929		
361	[96]						1.971		1.897		1.934		
362	[96]						1.937		2.095		2.016		
363	[96]						2.056		1.729		1.893		
364	[96]						2.067		1.776		1.921		
365	[96]						1.971		1.859		1.915		
366	[96]						1.933		1.748		1.841		
367	[96]						1.832		1.791		1.812		
368	[96]						1.892		1.876		1.884		
370	[98]						1.794		1.796		1.795		
371	[98]		1.748						1.721		1.735		1.748
372	[98]		1.733						1.717		1.725		1.733
373	[98]		1.733						1.707		1.72		1.733

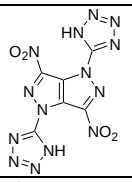
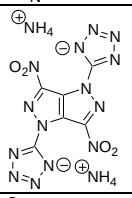
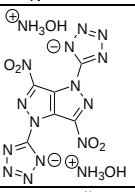
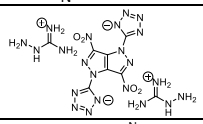
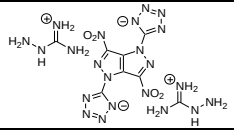
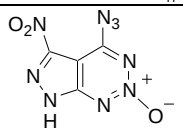
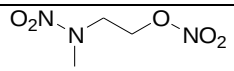
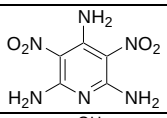
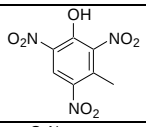
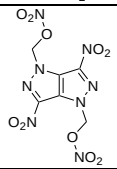
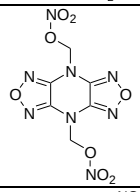
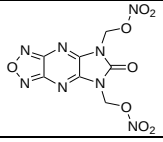
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
374	[98]		1.719						1.733		1.726		1.719
375	[98]		1.768						1.709		1.739		1.768
376	[98]						1.943		1.678		1.81		
379	[99]						1.991		1.886		1.938		
380	[99]						1.991		1.886		1.938		
381	[99]						1.933		1.772		1.853		
383	[99]						1.812		1.627		1.72		
384	[99]						1.862		1.705		1.784		
385	[99]						1.746		1.608		1.677		
386	[99]						1.825		1.675		1.75		
387	[99]						1.89		1.75		1.82		
388	[99]				1.361		1.964		1.671		1.516		
389	[99]						1.882		1.755		1.755		

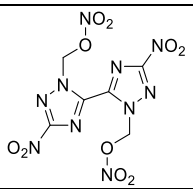
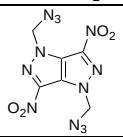
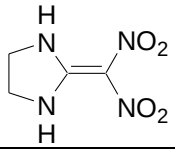
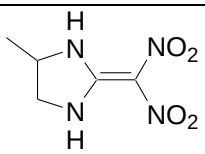
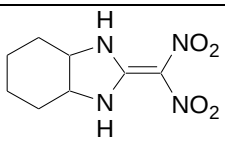
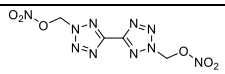
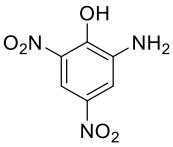
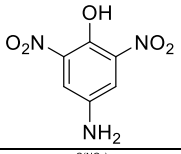
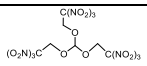
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
392	[99]						2.107		1.893		2		
394	[99]								1.49		-		
395	[99]								1.595		-		
398	[99]						1.927		1.772		1.849		
399	[99]						2.027		1.777		1.902		
400	[99]						2.05		1.787		1.918		
402	[99]						1.818		1.649		1.734		
403	[99]						1.827		1.509		1.668		
404	[99]						1.992		1.678		1.835		
405	[99]						1.873		1.745		1.809		
406	[99]						1.92		1.611		1.765		
407	[99]						1.805		1.676		1.74		

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
408	[99]						1.92		1.552		1.736		
409	[99]						1.818		1.659		1.739		
410	[99]						1.992		1.678		1.835		
411	[99]						1.873		1.735		1.804		
412	[99]				1.443		1.938		1.674		1.558		
413	[99]				1.384		2.005		1.608		1.496		
414	[99]						1.914		1.788		1.851		
415	[99]						2.045		1.731		1.888		
416	[99]						1.907		1.791		1.849		
417	[99]				1.443		1.938		1.674		1.558		
418	[99]				1.544		1.971		1.453		1.498		
419	[99]				1.544		1.971		1.724		1.634		
420	[99]						2.08		1.753		1.917		
421	[99]						1.958		1.824		1.891		

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
422	[99]				1.473		2.031		1.741		1.607		
423	[99]						2.009		1.589		1.799		
424	[99]						1.825		1.614		1.72		
425	[99]						1.892		1.663		1.777		
426	[99]						1.927		1.753		1.84		
427	[99]						1.919		1.699		1.809		
428	[99]						1.966		1.785		1.875		
429	[99]						1.919		1.699		1.809		
433	[101]						2.013		1.883		1.948		
434	[101]						1.869		1.822		1.845		
435	[101]						1.92		1.891		1.905		
436	[101]		1.691						1.676		1.683		1.691
437	[101]		1.669						1.691		1.68		1.669
438	[101]		1.641						1.673		1.657		1.641
439			1.627						1.685		1.656		1.627

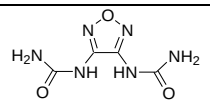
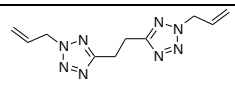
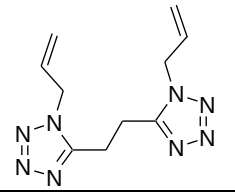
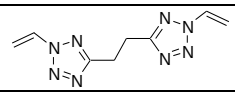
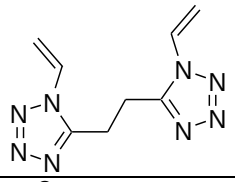
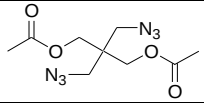
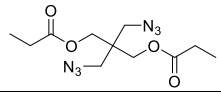
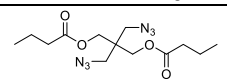
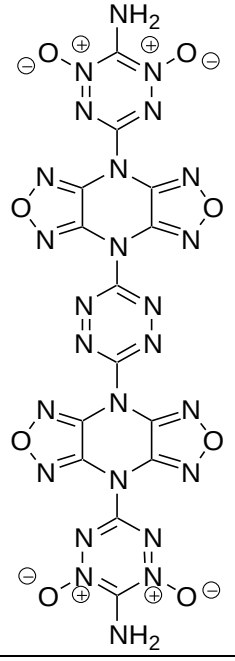
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
440	[101]		1.665						1.71		1.688		1.665
441			1.691						1.711		1.701		1.691
442	[101]		1.674						1.721		1.698		1.674
443	[101]		1.674						1.735		1.704		1.674
444	[101]		1.763						1.761		1.762		1.763
445	[101]		1.746						1.766		1.756		1.746
446	[101]		1.785						1.757		1.771		1.785
447	[101]		1.722						1.746		1.734		1.722
448	[101]		1.709						1.751		1.73		1.709
449	[101]		1.73						1.765		1.748		1.73
450	[101]		1.751						1.77		1.76		1.751
451	[101]		1.737						1.774		1.756		1.737
452	[101]		1.737						1.784		1.76		1.737
453	[102]						1.981		1.849		1.915		

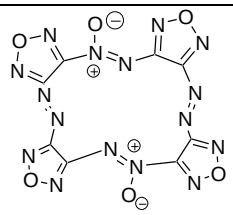
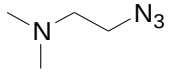
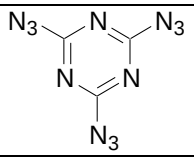
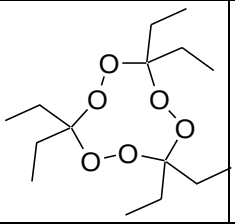
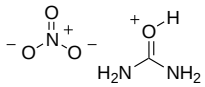
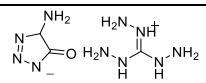
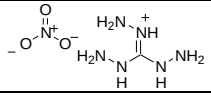
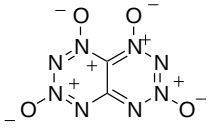
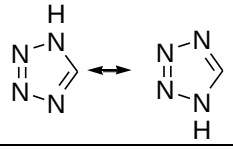
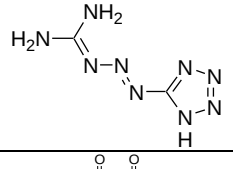
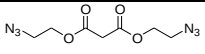
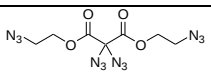
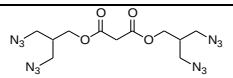
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
454	[103]						2.107		1.893		2		
455	[103]		1.705						1.724		1.715		1.705
456	[103]		1.74						1.76		1.75		1.74
457	[103]		1.648						1.72		1.684		1.648
458	[103]		1.648						1.72		1.684		1.648
459	[104]				1.441		2.206		1.828		1.821		
460	[26]						1.364		1.547		1.456		
461	[38]						1.744		1.726		1.735		
462	[38]						1.764		1.677		1.72		
465	[105]						1.863		1.884		1.873		
466	[105]						1.874		1.853		1.864		
467	[105]						1.87		1.84		1.855		

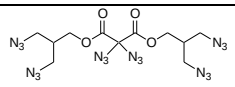
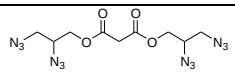
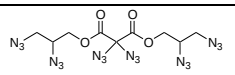
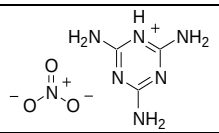
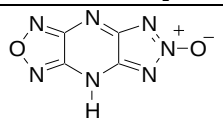
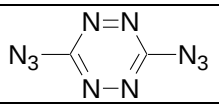
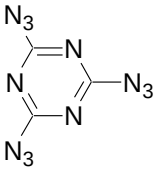
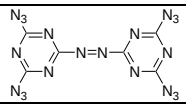
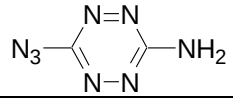
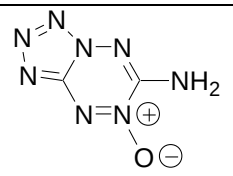
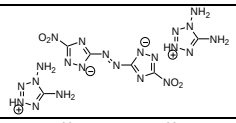
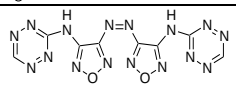
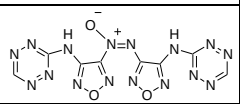
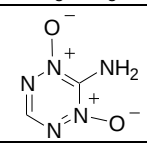
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
468	[105]						1.908		1.839		1.873		
469	[105]				1.443		2.006		1.699		1.571		
471	[47]						1.717		1.668		1.692		
472	[47]						1.618		1.567		1.593		
473	[47]						1.478		1.472		1.475		
479	[107]						1.955		1.764		1.86		
480	[108]						1.744		1.679		1.712		
481	[109]						1.744		1.679		1.712		
482	[110]						1.785		1.851		1.818		

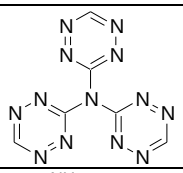
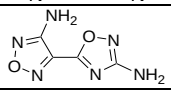
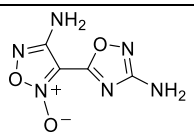
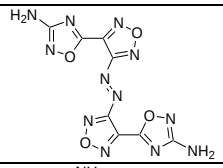
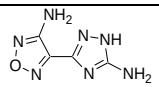
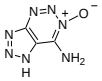
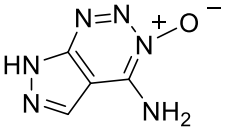
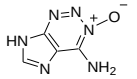
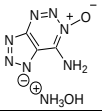
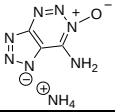
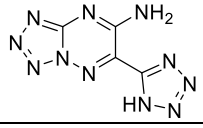
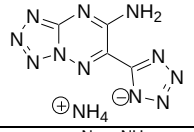
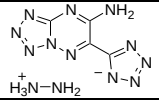
2.4.10 The densities of molecules not containing nitro groups

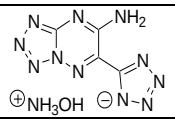
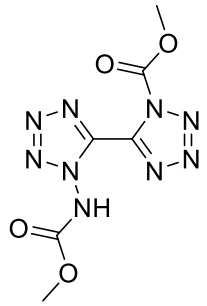
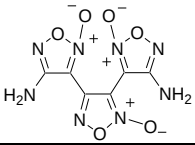
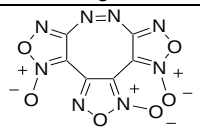
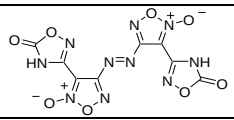
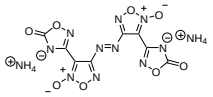
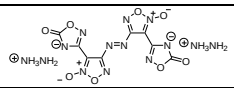
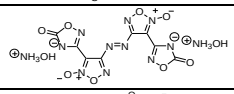
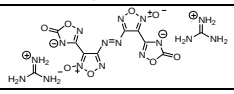
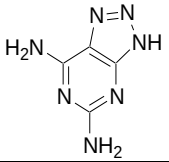
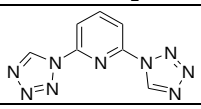
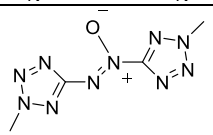
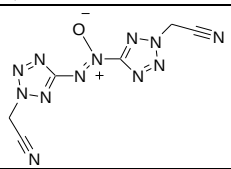
Table 82. Table summarizing the structural formulae, empirical formulae and the densities of the molecules not containing nitro groups.

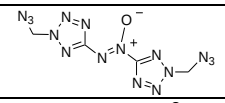
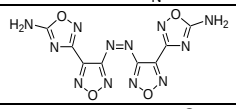
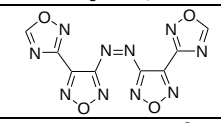
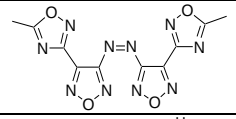
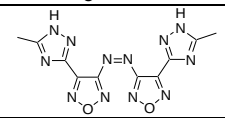
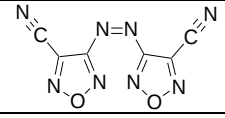
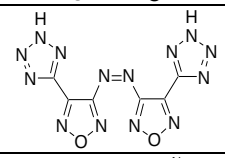
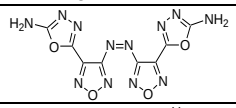
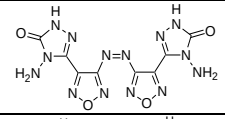
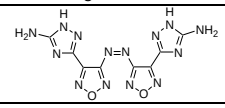
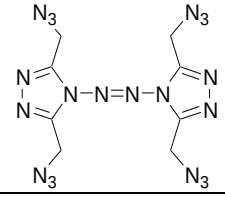
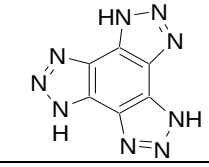
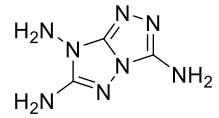
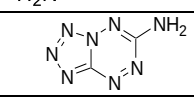
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
8	[25]		1.95		-		-	1.742	-11.9	1.697	-14.9	1.72	-13.4
12	[30]		1.2		-		-		-	1.255	4.4	-	-
13	[30]		1.2		-		-		-	1.255	4.4	-	-
14	[30]		1.4		-		-		-	1.324	-5.7	-	-
15	[30]		1.4		-		-		-	1.324	-5.7	-	-
26	[35]		1.21		-	1.226	1.3	1.443	16.1	1.28	5.5		-
27	[35]		1.16		-	1.171	0.9	1,335	13.1	1.23	5.7	1.316	11.9
28	[35]		1.09		-	1.123	2.9	1.245	12.4	1.192	8.6	1.251	12.9
42	[38]		1.903		-		-		-	1.893	-0.5	-	-

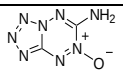
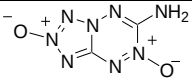
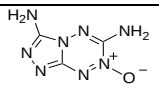
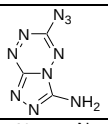
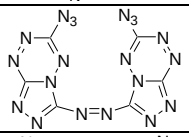
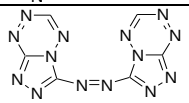
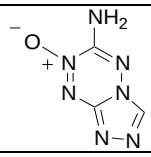
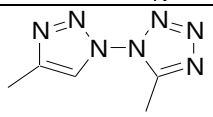
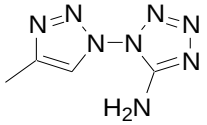
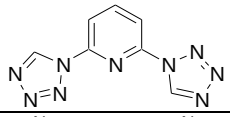
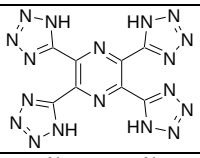
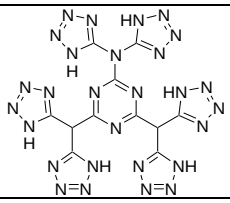
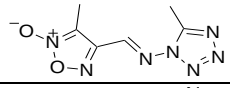
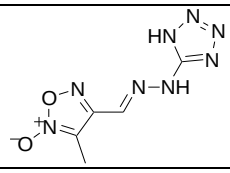
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
43	[38] [39]		1.761		-		-		-	1.786	1.4	-	-
46	[24]		0.933		-	1.14	18.2		-	1.109	15.9	1.124	17
47	[24] [40]		1.73		-		-		-	1.563	-10.7	-	-
49	[42]		1.25		-		-		-	1.124	-11.2	-	-
50	[43]		1.655	1.729	4.3		-		-	1.79	7.5	1.719	3.7
52	[45]		1.569	1.463	-7.2		-		-	1.555	-0.9	1.509	-4
53	[38]		1.509	1.59	5.1		-		-	1.714	12	1.652	8.7
57	[46]		1.96		-		-		-	2.063	5	-	-
58	[38]		1.529		-		-		-	1.582	3.4	-	-
63	[38]		1.64		-		-		-	1.538	-6.6	1.768	7.2
84	[51]		1.38		-	1.292	-6.8		-	1.348	-2.4	1.32	-4.5
85	[51]		1.49		-	1.41	-5.7		-	1.437	-3.7	1.423	-4.7
86	[51]		1.38		-	1.323	-4.3		-	1.318	-4.7	1.321	-4.5

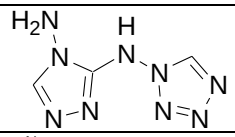
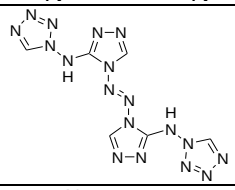
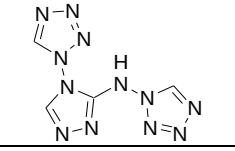
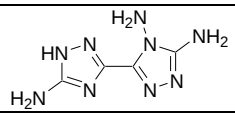
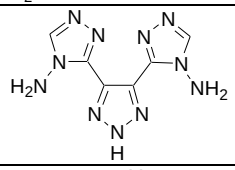
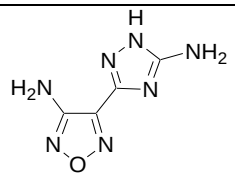
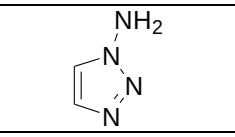
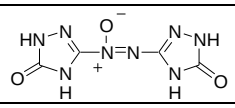
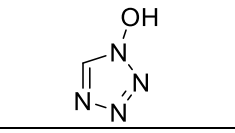
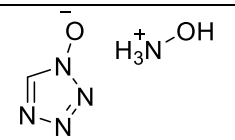
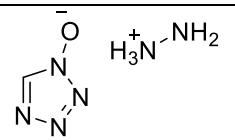
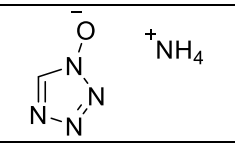
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
87	[51]		1.51		-	1.413	-6.9		-	1.382	-9.3	1.397	-8.1
88	[51]		1.3		-	1.361	4.5		-	1.37	5.1	1.365	4.8
89	[51]		1.5		-	1.446	-3.7		-	1.433	-4.7	1.44	-4.2
134	[62]		1.65	1.639	-0.7		-		-	1.684	2	1.661	0.7
137	[63]		1.85		-		-		-	1.87	1.1	-	-
145	[40]		1.62		-	1.28	-26.6		-	1.566	-3.4	1.423	-13.8
146	[40]		1.74		-		-		-	1.563	-11.3	-	-
147	[40]		1.67		-		-		-	1.481	-12.8	-	-
148	[40]		1.68		-		-		-	1.554	-8.1	-	-
149	[40]		1.874		-		-		-	1.839	-1.9	-	-
161	[66]		1.79	1.706	-4.9		-		-	1.744	-2.6	1.725	-3.8
162	[67]		1.67		-		-		-	1.609	-3.8	-	-
163	[67]		1.75		-		-		-	1.657	-5.6	-	-
164	[67]		1.77		-		-		-	1.786	0.9	-	-

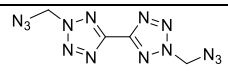
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
165	[67]		1.73		-		-		-	1.517	-14	-	-
191	[71]		1.68		-		-		-	1.716	2.1	-	-
192	[71]		1.788		-		-		-	1.819	1.7	-	-
193	[71]		1.652		-		-		-	1.716	3.7	-	-
194	[71]		1.716		-		-		-	1.685	-1.8	-	-
225	[79]		1.815		-		-		-	1.789	-1.5	-	-
226	[79]		1.772		-		-		-	1.721	-3	-	-
227	[79]		1.743		-		-		-	1.721	-1.3	-	-
228	[79]		1.772	1.643	-7.9		-		-	1.677	-5.7	-	-
229	[79]		1.8	1.584	-13.6		-		-	1.515	-18.8	1.55	-16.1
230	[79]		1.74	1.595	-9.1		-		-	1.635	-6.4	1.615	-7.7
232	[80]		1.795		-		-		-	1.714	-4.7	-	-
236	[80]		1.725	1.615	-6.8		-		-	1.608	-7.3	1.611	-7.1
237	[80]		1.742	1.605	-8.5		-		-	1.622	-7.4	1.614	-7.9

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
238	[80]		1.751	1.651	-6.1		-		-	1.614	-8.5	1.633	-7.2
241	[82]		1.64		-		-		-	1.59	-3.1	-	-
242	[83]		1.787		-		-		-	1.953	8.5	-	-
243	[83]		1.895		-		-		-	2.017	6	2.076	8.7
245	[84]		1.9		-		-		-	1.925	1.3	-	-
246	[84]		1.65	1.743	5.3		-		-	1.762	6.4	1.752	5.8
247	[84]		1.71	1.723	0.8		-		-	1.768	3.3	1.746	2.1
248	[84]		1.72	1.773	3		-		-	1.794	4.1	1.784	3.6
249	[84]		1.65	1.695	2.7		-		-	1.744	5.4	1.72	4.1
270	[90]		1.67		-		-	1.873	10.8	1.638	-2	1.756	4.9
283	[92]		1.59		-		-		-	1.518	-4.7	1.724	7.8
297	[93]		1.57		-		-		-	1.534	-2.3	-	-
298	[93]		1.58		-		-		-	1.554	-1.7	-	-

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
300	[93]		1.59		-	1.4	-13.6		-	1.597	0.4	1.498	-6.1
305	[95]		1.85		-		-		-	1.716	-7.8	-	-
306	[95]		1.68		-		-		-	1.684	0.2	-	-
307	[95]		1.75		-		-		-	1.567	-11.7	-	-
308	[95]		1.81		-		-		-	1.54	-17.5	-	-
309	[95]		1.62		-		-		-	1.613	-0.4	-	-
310	[95]		1.69		-		-		-	1.715	1.5	-	-
311	[95]		1.83		-		-		-	1.716	-6.6	-	-
312	[95]		1.68		-		-		-	1.79	6.1	-	-
313	[95]		1.79		-		-		-	1.685	-6.2	-	-
317	[95]		1.53		-	1.36	-12.5		-	1.462	-4.7	1.411	-8.4
337	[96]		1.77		-		-		-	1.811	2.3	-	-
339	[96]		1.73		-		-		-	1.774	2.5	-	-
347	[96]		1.68		-		-		-	1.714	2	-	-

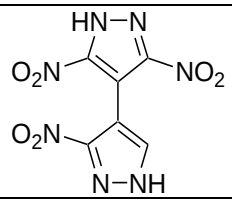
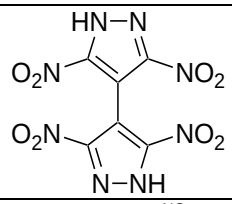
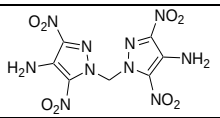
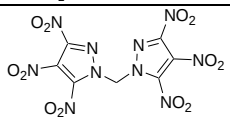
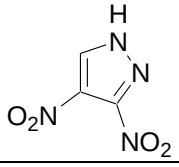
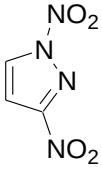
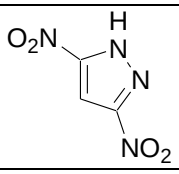
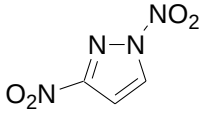
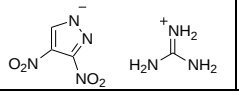
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
348	[96]		1.87		-		-		-	1.839	-1.7	-	-
349	[96]		1.93		-		-		-	1.955	1.3	-	-
354	[96]		1.82		-		-		-	1.794	-1.4	1.937	6
355	[96]		1.74		-	1.27	-37		-	1.674	-3.9	1.472	-18.2
356	[96]		1.77		-	1.37	-29.2		-	1.674	-5.7	1.522	-16.3
359	[96]		1.91		-		-		-	1.644	-16.2	-	-
369	[97]		1.7		-		-		-	1.768	3.8	1.937	12.2
377	[99]		1.47		-		-		-	1.414	-4	-	-
378	[99]		1.52		-		-		-	1.536	1	-	-
382	[99]		1.59		-		-		-	1.518	-4.7	1.724	7.8
390	[99]		1.95		-		-		-	1.681	-16	-	-
393	[99]		1.88		-		-		-	1.664	-13	-	-
394	[99]		1.531		-		-		-	1.49	-2.8	-	-
395	[99]		1.62		-		-		-	1.595	-1.6	-	-

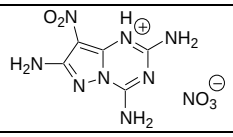
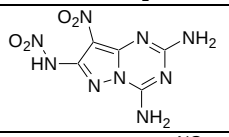
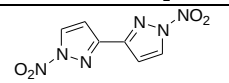
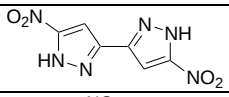
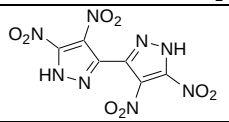
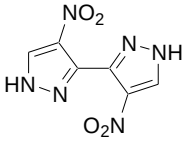
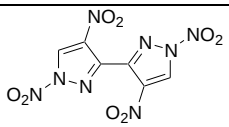
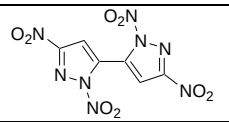
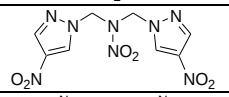
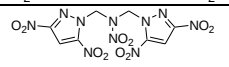
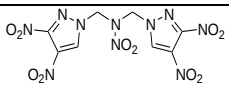
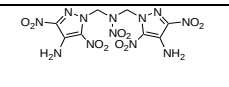
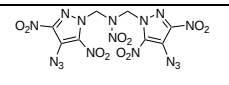
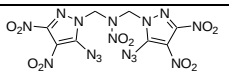
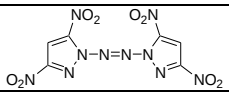
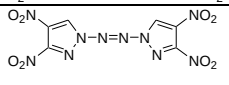
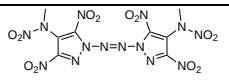
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
396	[99]		1.65		-		-		-	1.662	0.7	-	-
397	[99]		1.68		-		-		-	1.661	-1.1	-	-
401	[99]		1.71		-		-		-	1.683	-1.6	-	-
430	[100]		1.68		-		-		-	1.67	-0.6	-	-
431	[100]		1.65		-		-		-	1.648	-0.1	-	-
432	[101]		1.596		-		-		-	1.685	5.3	-	-
463	[24]		1.441		-		-		-	1.523	5.4	-	-
464	[24]		1.91		-		-		-	1.868	-2.2	1.901	-0.5
474	[106]		1.63		-		-	2.075	21.4	1.681	3	1.825	10.7
475	[106]		1.67	1.646	-1.5		-		-	1.634	-2.2	1.785	6.4
476	[106]		1.6	1.553	-3		-		-	1.594	-0.4	1.574	-1.7
477	[106]		1.4	1.568	10.7		-		-	1.562	10.4	1.574	11.1

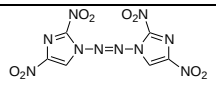
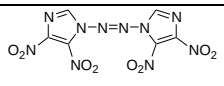
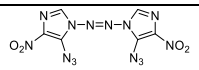
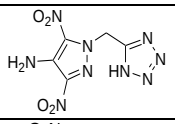
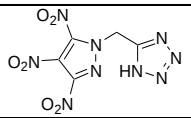
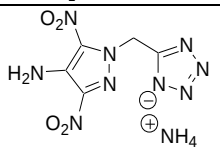
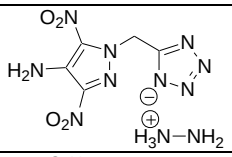
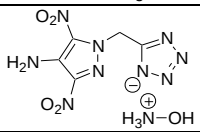
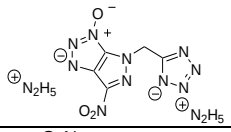
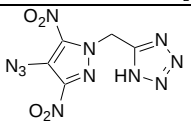
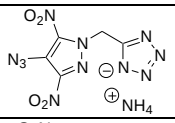
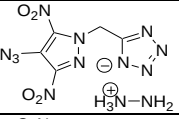
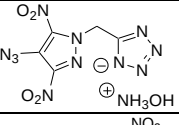
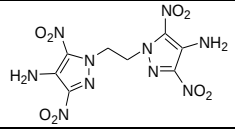
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
478	[107]		1.62		-	1.311	-23.6	2.147	24.5	1.551	-4.4	1.67	3

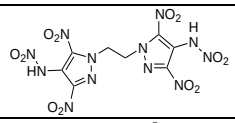
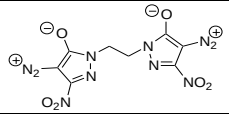
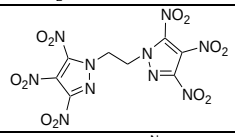
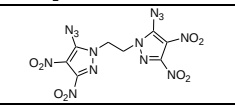
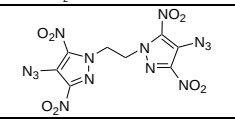
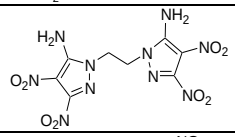
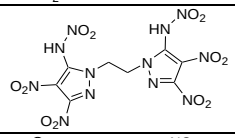
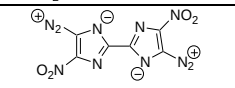
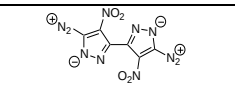
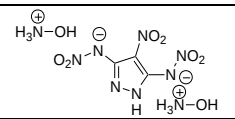
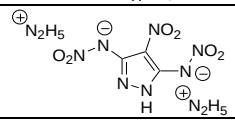
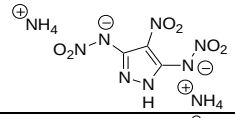
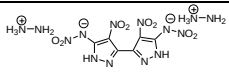
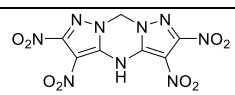
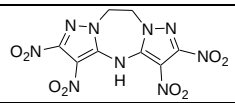
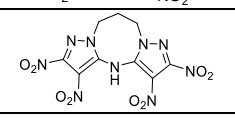
2.4.11 The densities of diazoles

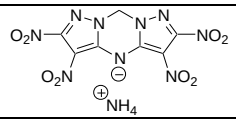
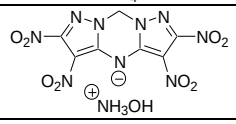
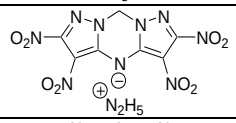
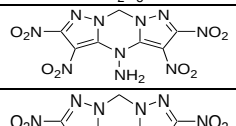
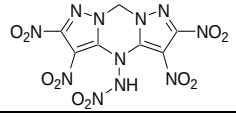
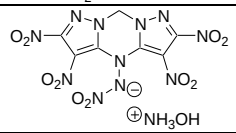
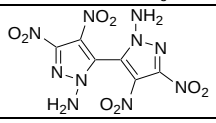
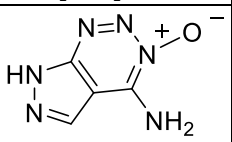
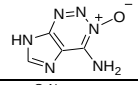
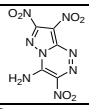
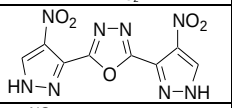
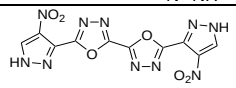
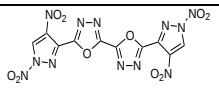
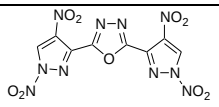
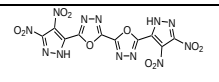
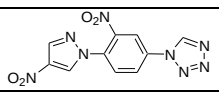
Table 83. Table summarizing the structural formulae, empirical formulae and the densities of the diazoles.

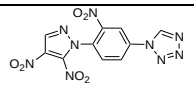
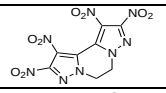
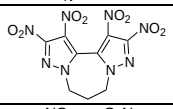
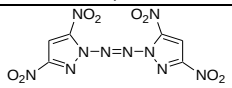
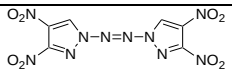
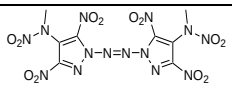
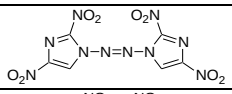
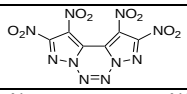
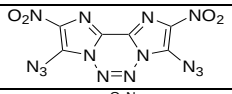
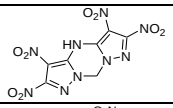
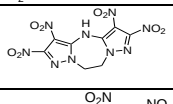
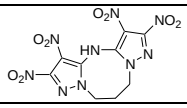
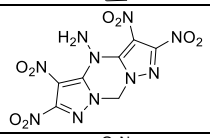
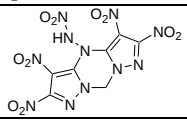
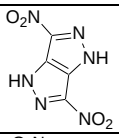
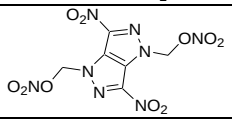
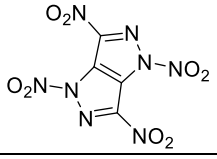
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
6	[27]		1.855		-		-	1.897	2.2	1.854	-0.1	1.876	1.1
7	[27]		1.82		-		-	1.94	6.2	1.927	5.6	1.933	5.8
17	[31]		1.802		-		-	1.858	3	1.838	2	1.848	2.5
18	[31]		1.934		-		-	1.941	0.4	1.933	-0.1	1.937	0.2
36	[37]		1.79		-		-	1.874	4.5	1.849	3.2	1.861	3.8
37	[37]		1.76		-		-	1.874	6.1	1.842	4.5	1.858	5.3
38	[37]		1.78		-		-	1.874	5	1.849	3.7	1.861	4.4
120	[37]		1.76		-		-	1.874	6.1	1.842	4.5	1.858	5.3
122	[37]		1.63	1.669	2.3		-		-	1.68	3	1.675	2.7

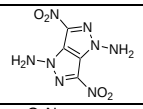
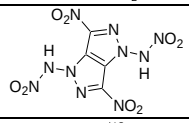
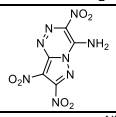
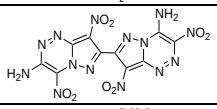
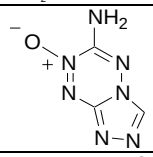
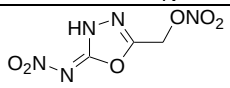
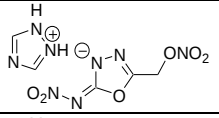
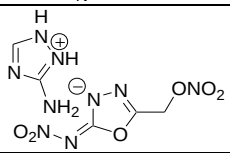
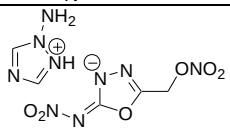
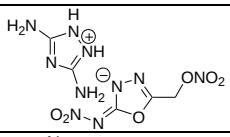
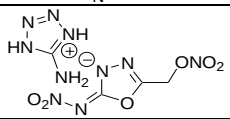
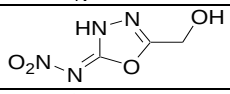
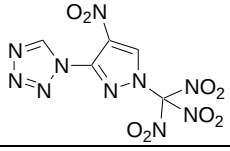
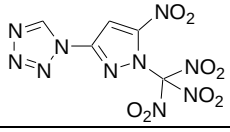
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
135	[62]		1.82	1.817	-0.2		-		-	1.816	-0.2	1.817	-0.2
136	[62]		1.89		-		-		-	1.825	-3.6	-	-
139	[64]		1.81		-		-	1.836	1.4	1.751	-3.4	1.794	-0.9
140	[64]		1.81		-		-	1.836	1.4	1.759	-2.9	1.797	-0.7
141	[64]		1.84		-		-	1.94	5.2	1.927	4.5	1.933	4.8
142	[64]		1.83		-		-	1.836	0.3	1.759	-4	1.797	-1.8
143	[64]		1.85		-		-	1.94	4.6	1.92	3.6	1.98	6.6
144	[64]		1.855		-		-	1.94	4.4	1.92	3.4	1.98	6.3
150	[65]		1.69		-		-	1.745	3.2	1.663	-1.6	1.704	0.8
151	[65]		1.789	1.78	-0.5		-	1.847	3.1	1.801	0.7	1.824	1.9
152	[65]		1.78		-		-	1.847	3.6	1.801	1.2	1.824	2.4
153	[65]		1.86		-		-	1.839	-1.1	1.82	-2.2	1.829	-1.7
154	[65]		1.83		-	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6
155	[65]		1.83		-	1.635	-11.9	1.996	8.3	1.798	-1.8	1.716	-6.6
166	[68]**4**		1.81		-		-	1.983	8.7	1.852	2.3	1.917	5.6
167	[68]**5**		1.82		-		-	1.983	8.2	1.852	1.7	1.917	5.1
168	[68]**6**		1.8		-		-	1.911	5.8	1.816	0.9	1.864	3.4

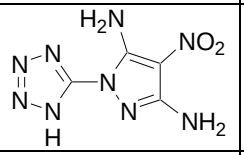
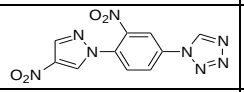
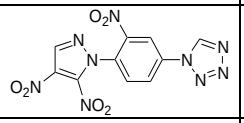
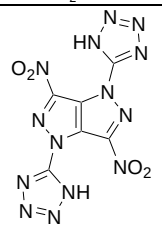
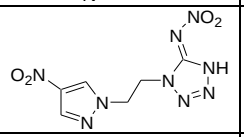
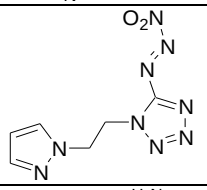
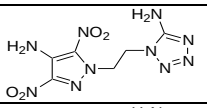
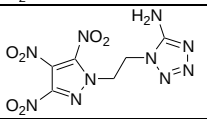
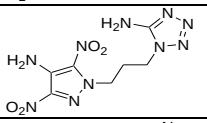
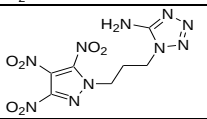
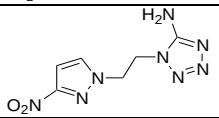
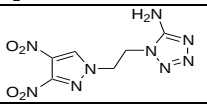
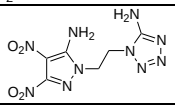
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
169	[68]7		1.85		-		-	1.983	6.7	1.852	0.1	1.917	3.5
170	[68]8		1.83		-		-	1.983	7.7	1.852	1.2	1.917	4.5
172	[68]		1.77		-	1.47	-20.4		-	1.712	-3.4	1.591	-11.3
173	[69]		1.83		-		-	2.08	12	1.753	-4.4	1.917	4.5
174	[69]		1.86		-		-	1.958	5	1.824	-2	1.891	1.6
175	[69]		1.68	1.669	-0.7		-		-	1.659	-1.3	1.664	-1
176	[69]		1.65	1.812	8.9		-		-	1.668	1.1	1.74	5.2
177	[69]		1.75	1.695	-3.2		-		-	1.685	-3.9	1.69	-3.6
178	[69]		1.69	1.604	-5.4		-		-	1.658	-1.9	1.631	-3.6
179	[69]		1.812		-	1.473	-23	2.031	10.8	1.741	-4.1	1.607	-12.8
180	[69]		1.64	1.725	4.9		-		-	1.657	1	1.691	3
181	[69]		1.72	1.712	-0.5		-		-	1.665	-3.3	1.688	-1.9
182	[69]		1.76	1.746	-0.8		-		-	1.659	-6.1	1.703	-3.3
183	[70]		1.77		-		-	1.799	1.6	1.768	-0.1	1.784	0.8

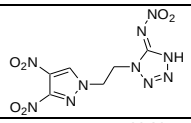
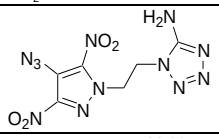
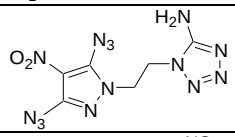
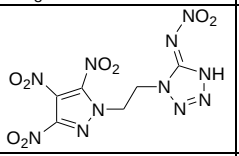
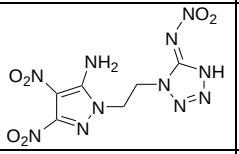
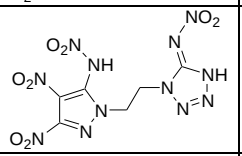
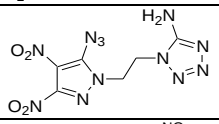
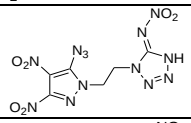
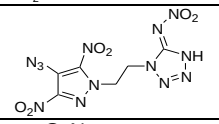
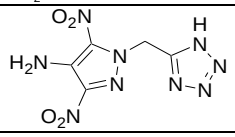
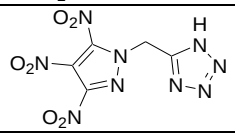
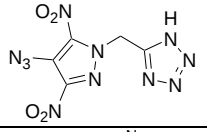
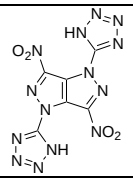
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
184	[70]		1.84		-		-	1.877	2	1.862	1.2	1.869	1.6
185	[70]		1.72	1.765	2.5		-	1.926	10.7	1.724	0.2	1.805	4.7
186	[70]		1.84		-		-	1.887	2.5	1.863	1.2	1.875	1.9
187	[70]		1.78		-	1.543	-15.4	1.983	10.2	1.75	-1.7	1.647	-8.1
188	[70]		1.76		-	1.543	-14.1	1.983	11.2	1.75	-0.6	1.647	-6.9
189	[70]		1.75		-		-	1.799	2.7	1.768	1	1.784	1.9
190	[70]		1.83		-		-	1.877	2.5	1.862	1.7	1.869	2.1
195	[72]		1.83	1.829	-0.1		-	2.112	13.4	1.757	-4.2	1.899	3.6
196	[72]		1.85	1.829	-1.1		-	2.112	12.4	1.757	-5.3	1.899	2.6
204	[74]		1.9	1.757	-8.1		-		-	1.757	-8.1	1.757	-8.1
205	[74]		1.87	1.684	-11		-		-	1.721	-8.7	1.703	-9.8
206	[74]		1.8	1.71	-5.3		-		-	1.707	-5.4	1.708	-5.4
207	[74]		1.85	1.707	-8.4		-		-	1.757	-5.3	1.732	-6.8
210	[75]		1.895		-		-	2.014	5.9	1.932	1.9	1.973	4
211	[75]		1.8		-		-	1.949	7.6	1.847	2.5	1.898	5.2
212	[75]		1.76		-		-	1.89	6.9	1.775	0.8	1.833	4

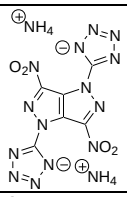
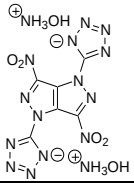
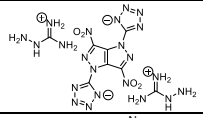
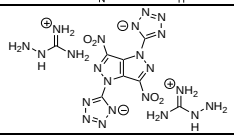
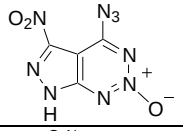
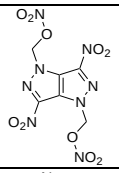
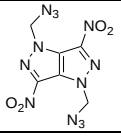
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
213	[75]		1.82	1.775	-2.5		-		-	1.836	0.9	1.805	-0.8
214	[75]		1.86	1.791	-3.9		-		-	1.853	-0.4	1.822	-2.1
215	[75]		1.83	1.762	-3.9		-		-	1.791	-2.2	1.776	-3
216	[75]		1.79		-		-	2.005	10.7	1.929	7.2	1.967	9
217	[75]		1.937		-		-	2.037	4.9	1.972	1.8	2.005	3.4
218	[75]		1.87	1.821	-2.7		-		-	1.897	1.4	1.859	-0.6
219	[76]		1.76		-		-	1.922	8.4	1.921	8.4	1.922	8.4
226	[79]		1.772		-		-		-	1.721	-3	-	-
227	[79]		1.743		-		-		-	1.721	-1.3	-	-
261	[86]		1.9		-		-	1.971	3.6	1.897	-0.2	1.934	1.8
262	[87]		1.8		-		-	1.884	4.5	1.768	-1.8	1.826	1.4
263	[87]		1.809		-		-	1.914	5.5	1.773	-2	1.843	1.8
264	[87]		1.831		-		-	1.972	7.2	1.903	3.8	1.976	7.3
265	[87]		1.844		-		-	1.959	5.9	1.897	2.8	1.92	4
266	[87]		1.87		-		-	1.972	5.2	1.885	0.8	1.929	3.1
291	[92]		1.64		-		-	1.812	9.5	1.627	-0.8	1.72	4.7

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
292	[92]		1.68		-		-	1.862	9.8	1.705	1.5	1.784	5.8
301	[94]		1.762		-		-	1.866	5.6	1.847	4.6	1.857	5.1
302	[94]		1.677		-		-	1.803	7	1.772	5.4	1.788	6.2
321	[95]		1.81		-		-	1.983	8.7	1.852	2.3	1.917	5.6
322	[95]		1.82		-		-	1.983	8.2	1.852	1.7	1.917	5.1
323	[95]		1.8		-		-	1.911	5.8	1.816	0.9	1.864	3.4
324	[95]		1.85		-		-	1.983	6.7	1.852	0.1	1.917	3.5
328	[96]		1.89		-		-	2.044	7.5	1.994	5.2	2.019	6.4
329	[96]		1.89		-	1.47	-28.6	2.171	12.9	1.835	-3	1.652	-14.4
330	[96]		1.9		-		-	2.014	5.7	1.932	1.7	1.973	3.7
331	[96]		1.8		-		-	1.949	7.6	1.847	2.5	1.898	5.2
332	[96]		1.76		-		-	1.89	6.9	1.775	0.8	1.833	4
333	[96]		1.79		-		-	2.005	10.7	1.929	7.2	1.967	9
334	[96]		1.94		-		-	2.037	4.8	1.972	1.6	2.005	3.2
340	[96]		1.85		-		-	1.95	5.1	1.942	4.7	1.946	4.9
341	[96]		1.82		-		-	1.863	2.3	1.856	1.9	1.86	2.2
342	[96]		1.95		-		-	2.127	8.3	2.085	6.5	2.106	7.4

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
343	[96]		1.84		-		-	1.921	4.2	1.93	4.7	1.925	4.4
344	[96]		1.93		-		-	2	3.5	2.042	5.5	2.021	4.5
361	[96]		1.95		-		-	1.971	1.1	1.897	-2.8	1.934	-0.8
365	[96]		1.85		-		-	1.971	6.1	1.859	0.5	1.915	3.4
369	[97]		1.7		-		-		-	1.768	3.8	1.937	12.2
370	[98]		1.875		-		-	1.794	-4.5	1.796	-4.4	1.795	-4.5
371	[98]		1.772	1.748	-1.4		-		-	1.721	-3	1.735	-2.1
372	[98]		1.78	1.733	-2.7		-		-	1.717	-3.7	1.725	-3.2
373	[98]		1.802	1.733	-4		-		-	1.707	-5.6	1.72	-4.8
374	[98]		1.814	1.719	-5.5		-		-	1.733	-4.7	1.726	-5.1
375	[98]		1.796	1.768	-1.6		-		-	1.709	-5.1	1.739	-3.3
376	[98]		1.811		-		-	1.943	6.8	1.678	-7.9	1.81	-0.1
379	[99]		1.79		-		-	1.991	10.1	1.886	5.1	1.938	7.6
380	[99]		1.76		-		-	1.991	11.6	1.886	6.7	1.938	9.2

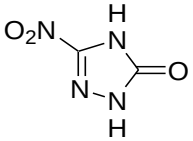
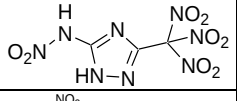
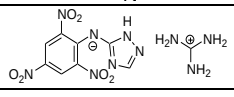
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
381	[99]		1.76		-		-	1.933	8.9	1.772	0.7	1.853	5
383	[99]		1.64		-		-	1.812	9.5	1.627	-0.8	1.72	4.7
384	[99]		1.68		-		-	1.862	9.8	1.705	1.5	1.784	5.8
392	[99]		1.79		-		-	2.107	15	1.893	5.4	2	10.5
402	[99]		1.65		-		-	1.818	9.2	1.649	-0.1	1.734	4.8
403	[99]		1.5		-		-	1.827	17.9	1.509	0.6	1.668	10.1
404	[99]		1.67		-		-	1.992	16.2	1.678	0.5	1.835	9
405	[99]		1.71		-		-	1.873	8.7	1.745	2	1.809	5.5
406	[99]		1.65		-		-	1.92	14.1	1.611	-2.4	1.765	6.5
407	[99]		1.67		-		-	1.805	7.5	1.676	0.4	1.74	4
408	[99]		1.53		-		-	1.92	20.3	1.552	1.4	1.736	11.9
409	[99]		1.59		-		-	1.818	12.5	1.659	4.2	1.739	8.6
410	[99]		1.68		-		-	1.992	15.7	1.678	-0.1	1.835	8.4

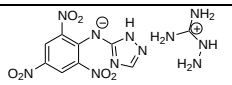
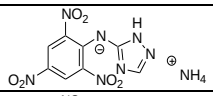
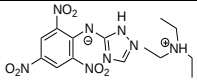
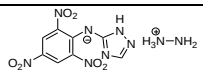
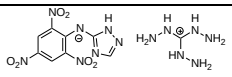
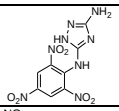
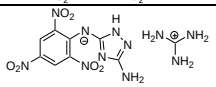
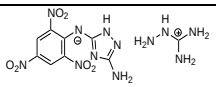
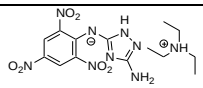
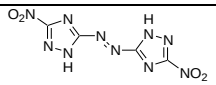
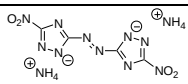
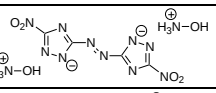
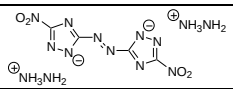
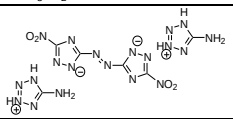
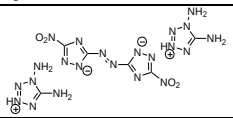
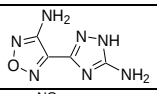
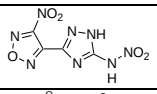
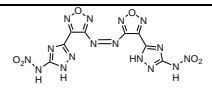
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
411	[99]		1.69		-		-	1.873	9.8	1.735	2.6	1.804	6.3
412	[99]		1.7		-	1.443	-17.8	1.938	12.3	1.674	-1.6	1.558	-9.1
413	[99]		1.63		-	1.384	-17.8	2.005	18.7	1.608	-1.4	1.496	-9
414	[99]		1.77		-		-	1.914	7.5	1.788	1	1.851	4.4
415	[99]		1.76		-		-	2.045	13.9	1.731	-1.7	1.888	6.8
416	[99]		1.84		-		-	1.907	3.5	1.791	-2.7	1.849	0.5
417	[99]		1.71		-	1.443	-18.5	1.938	11.8	1.674	-2.2	1.558	-9.8
418	[99]		1.81		-	1.544	-17.2	1.971	8.2	1.453	-24.6	1.498	-20.8
419	[99]		1.78		-	1.544	-15.3	1.971	9.7	1.724	-3.2	1.634	-8.9
420	[99]		1.83		-		-	2.08	12	1.753	-4.4	1.917	4.5
421	[99]		1.86		-		-	1.958	5	1.824	-2	1.891	1.6
422	[99]		1.81		-	1.473	-22.9	2.031	10.9	1.741	-4	1.607	-12.6
454	[103]		1.79		-		-	2.107	15	1.893	5.4	2	10.5

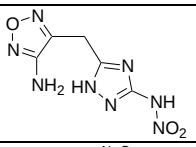
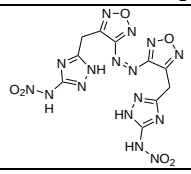
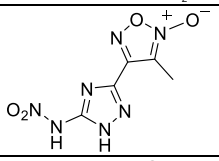
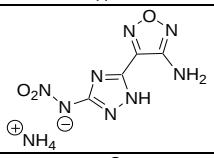
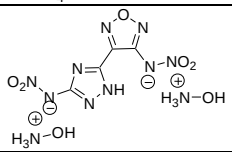
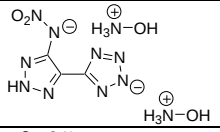
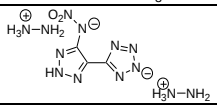
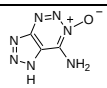
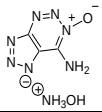
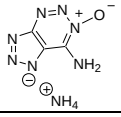
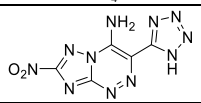
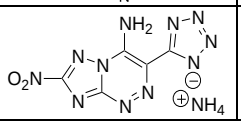
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
455	[103]		1.69	1.705	0.9		-		-	1.724	2	1.715	1.5
456	[103]		1.61	1.74	7.5		-		-	1.76	8.5	1.75	8
457	[103]		1.75	1.648	-6.2		-		-	1.72	-1.7	1.684	-3.9
458	[103]		1.64	1.648	0.5		-		-	1.72	4.7	1.684	2.6
459	[104]		1.86		-	1.441	-29.1	2.206	15.7	1.828	-1.8	1.821	-2.1
465	[105]		1.82		-		-	1.863	2.3	1.884	3.4	1.873	2.8
469	[105]		1.71		-	1.443	-18.5	2.006	14.8	1.699	-0.6	1.571	-8.8

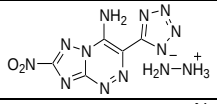
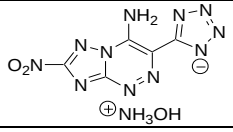
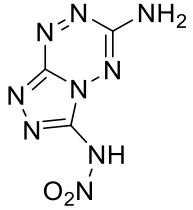
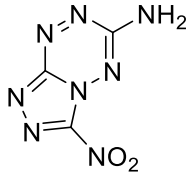
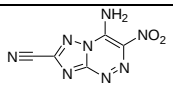
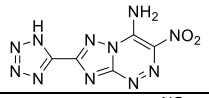
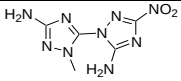
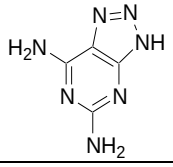
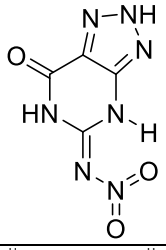
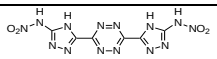
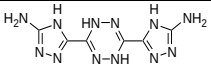
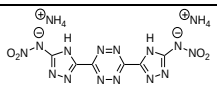
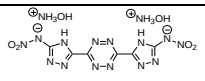
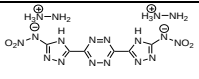
2.4.12 The densities of triazoles

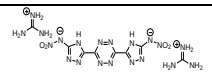
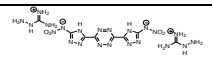
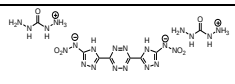
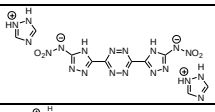
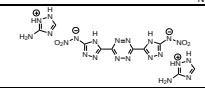
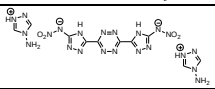
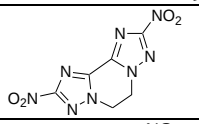
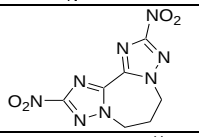
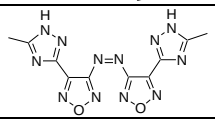
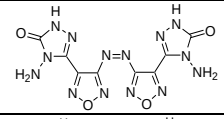
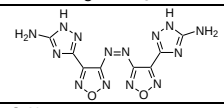
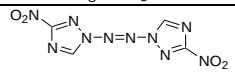
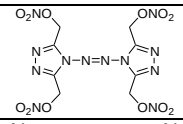
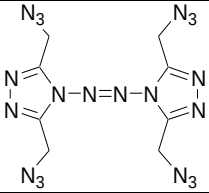
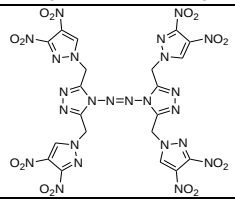
Table 84. Table summarizing the structural formulae, empirical formulae and the densities of the triazoles.

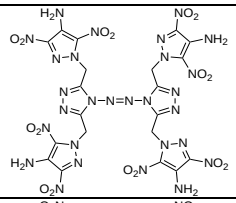
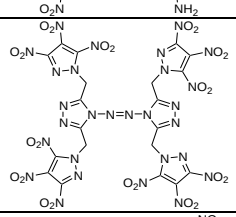
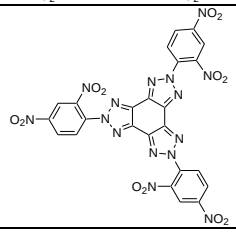
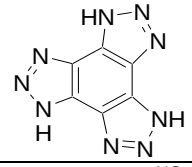
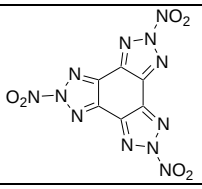
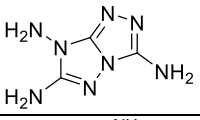
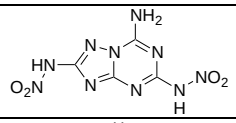
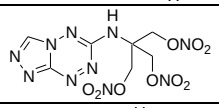
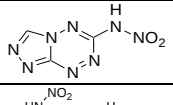
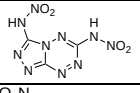
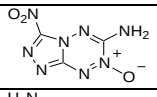
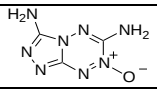
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
5	[23] [26]		1.916		-		-	1.9	-0.8	1.882	-1.8	1.891	-1.3
9	[28]		1.91		-		-	2.064	7.5	1.957	2.4	2.01	5
99	[55]		1.666	1.657	-0.5		-		-	1.652	-0.8	1.655	-0.7

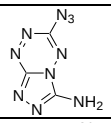
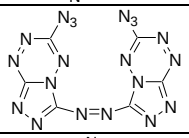
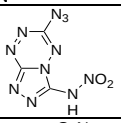
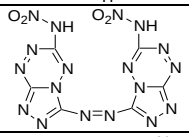
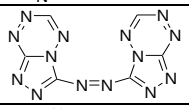
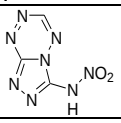
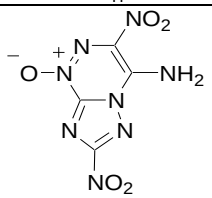
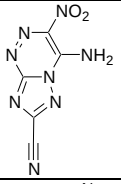
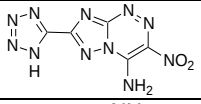
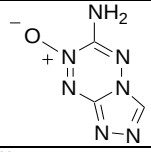
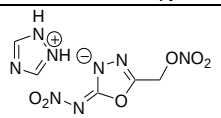
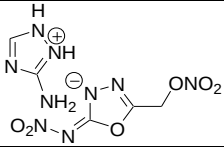
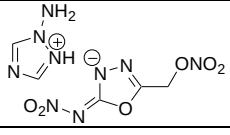
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100	[55]		1.80	1.648	-9.2		-		-	1.66	-8.4	1.654	-8.8
101	[55]		1.84	1.682	-9.4		-		-	1.651	-11.4	1.667	-10.4
102	[55]		1.53	1.474	-3.8		-		-	1.384	-10.5	1.429	-7.1
103	[55]		1.62	1.672	3.1		-		-	1.659	2.4	1.665	2.7
104	[55]		1.59	1.634	2.7		-		-	1.673	5	1.653	3.8
105	[55]		1.85		-		-	1.989	7	1.746	-6	1.868	1
106	[55]		1.59	1.648	3.5		-		-	1.667	4.6	1.657	4
107	[55]		1.66	1.641	-1.2		-		-	1.674	0.8	1.657	-0.2
108	[55]		1.50	1.473	-1.8		-		-	1.402	-7	1.438	-4.3
156	[66]		1.88		-		-	2.062	8.8	1.795	-4.7	1.928	2.5
157	[66]		1.76	1.693	-4		-		-	1.614	-9	1.654	-6.4
158	[66]		1.82	1.739	-4.7		-		-	1.664	-9.4	1.702	-6.9
159	[66]		1.80	1.671	-7.7		-		-	1.634	-10.2	1.652	-9
160	[66]		1.71	1.724	0.8		-		-	1.736	1.5	1.73	1.2
161	[66]		1.79	1.706	-4.9		-		-	1.744	-2.6	1.725	-3.8
194	[71]		1.716		-		-		-	1.685	-1.8	-	-
197	[73]		1.851		-		-	1.996	7.3	1.881	1.6	1.938	4.5
198	[73]		1.873		-		-	2.033	7.9	1.799	-4.1	1.916	2.2

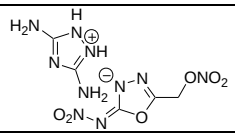
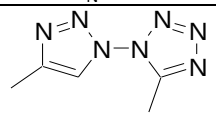
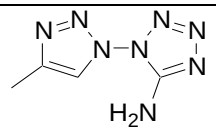
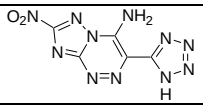
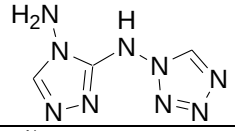
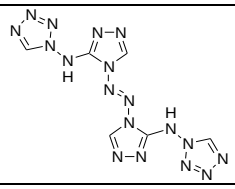
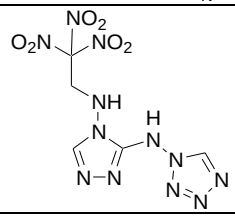
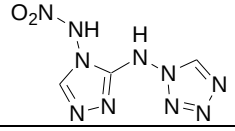
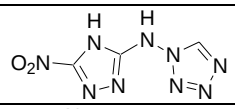
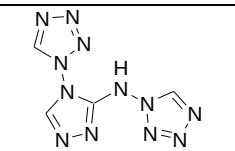
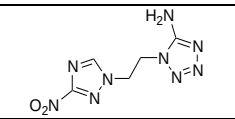
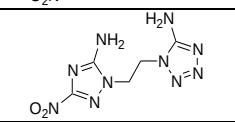
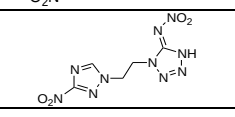
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199	[73]		1.695		-		-	1.832	7.5	1.692	-0.2	1.762	3.8
200	[73]		1.704		-		-	1.924	11.4	1.692	-0.7	1.808	5.8
201	[73]		1.741		-		-	1.932	9.9	1.75	0.5	1.841	5.4
202	[73]		1.680	1.658	-1.3		-		-	1.679	-0.1	1.668	-0.7
203	[73]		1.850	1.736	-6.6		-		-	1.723	-7.4	1.73	-6.9
208	[74]		1.82	1.672	-8.9		-		-	1.644	-10.7	1.658	-9.8
209	[74]		1.71	1.588	-7.7		-		-	1.608	-6.3	1.598	-7
225	[79]		1.815		-		-		-	1.789	-1.5	-	-
228	[79]		1.772	1.643	-7.9		-		-	1.677	-5.7	-	-
229	[79]		1.800	1.584	-13.6		-		-	1.515	-18.8	1.55	-16.1
230	[79]		1.740	1.595	-9.1		-		-	1.635	-6.4	1.615	-7.7
231	[80]		1.873		-		-	2.067	9.4	1.776	-5.5	1.921	2.5
233	[80]		1.811	1.674	-8.2		-		-	1.676	-8.1	1.675	-8.1

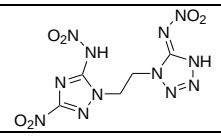
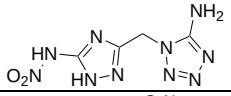
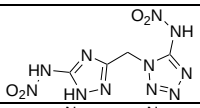
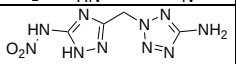
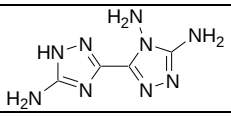
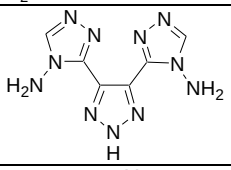
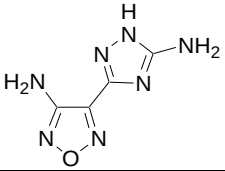
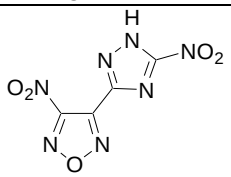
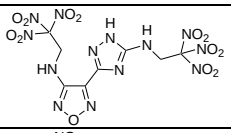
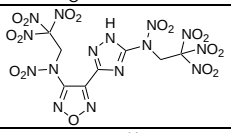
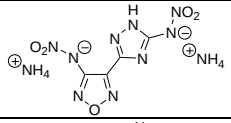
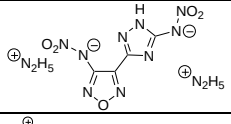
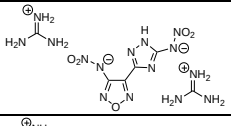
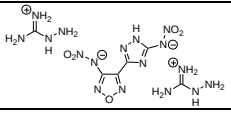
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
234	[80]		1.855	1.662	-11.6		-		-	1.685	-10.1	1.673	-10.9
235	[80]		1.859	1.701	-9.3		-		-	1.678	-10.8	1.69	-10
239	[81]		1.79		-		-	2.05	12.7	1.804	0.8	1.927	7.1
240	[81]		1.83		-		-	1.769	-3.4	1.8	-1.7	1.784	-2.6
267	[88]		1.753		-		-	2.056	14.7	1.729	-1.4	1.893	7.4
268	[88]		1.819		-		-	2.067	12	1.776	-2.4	1.921	5.3
269	[89]		1.83		-		-	1.831	0.1	1.657	-10.4	1.744	-4.9
270	[90]		1.67		-		-	1.873	10.8	1.638	-2	1.756	4.9
271	[90]		1.94		-		-	1.949	0.5	1.856	-4.5	1.903	-1.9
272	[91]		1.88		-		-	2.044	8	1.781	-5.6	1.913	1.7
273	[91]		1.84		-		-		-	1.659	-10.9	-	-
274	[91]		1.79	1.674	-6.9		-		-	1.64	-9.1	1.657	-8
275	[91]		1.81	1.711	-5.8		-		-	1.645	-10	1.678	-7.9
276	[91]		1.78	1.657	-7.4		-		-	1.654	-7.6	1.655	-7.6

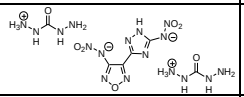
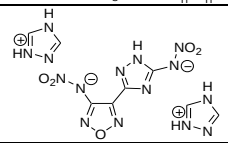
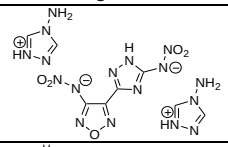
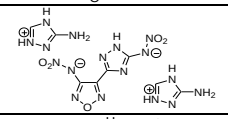
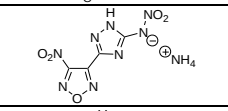
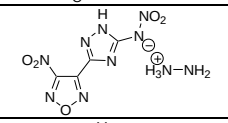
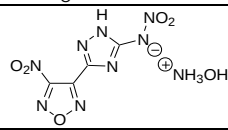
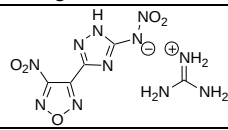
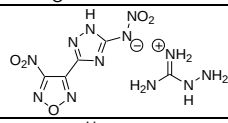
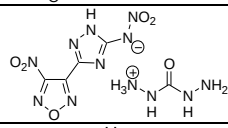
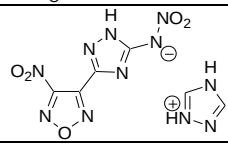
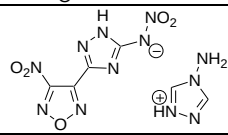
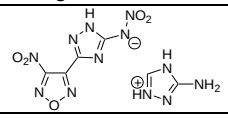
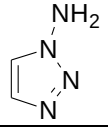
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
277	[91]		1.84	1.636	-12.5		-		-	1.644	-11.9	1.64	-12.2
278	[91]		1.79	1.624	-10.2		-		-	1.656	-8.1	1.64	-9.1
279	[91]		1.82	1.657	-9.8		-		-	1.678	-8.5	1.667	-9.2
280	[91]		1.85	1.677	-10.3		-		-	1.676	-10.4	1.676	-10.4
281	[91]		1.84	1.664	-10.6		-		-	1.697	-8.4	1.68	-9.5
282	[91]		1.85	1.664	-11.2		-		-	1.686	-9.7	1.675	-10.4
303	[94]		1.733		-		-	1.905	9	1.763	1.7	1.834	5.5
304	[94]		1.634		-		-	1.82	10.2	1.677	2.6	1.748	6.5
308	[95]		1.81		-		-		-	1.54	-17.5	-	-
312	[95]		1.68		-		-		-	1.79	6.1	-	-
313	[95]		1.79		-		-		-	1.685	-6.2	-	-
315	[95]		1.80		-		-	2.062	12.7	1.77	-1.7	1.916	6.1
316	[95]		1.70		-		-	1.833	7.3	1.687	-0.8	1.76	3.4
317	[95]		1.53		-	1.36	-12.5		-	1.462	-4.7	1.411	-8.4
318	[95]		1.74		-		-	1.889	7.9	1.742	0.1	1.816	4.2

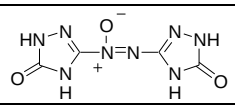
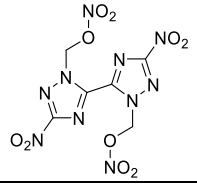
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
319	[95]		1.75		-		-	1.879	6.9	1.763	0.7	1.821	3.9
320	[95]		1.82		-		-	1.944	6.4	1.843	1.2	1.893	3.9
336	[96]		1.69		-		-	1.834	7.9	1.719	1.7	1.776	4.8
337	[96]		1.77		-		-		-	1.811	2.3	-	-
338	[96]		1.82		-		-		-	2.033	10.5	2.119	14.1
339	[96]		1.73		-		-		-	1.774	2.5	-	-
346	[96]		1.84		-		-	1.98	7.1	1.856	0.9	1.918	4.1
350	[96]		1.79		-		-	1.799	0.5	1.7	-5.3	1.749	-2.3
351	[96]		1.76		-		-	2.076	15.2	1.782	1.2	1.929	8.8
352	[96]		1.91		-		-	2.078	8.1	1.89	-1.1	1.984	3.7
353	[96]		1.86		-		-	2.327	20.1	1.898	2	2.112	11.9
354	[96]		1.82		-		-		-	1.794	-1.4	1.937	6

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
355	[96]		1.74		-	1.27	-37		-	1.674	-3.9	1.472	-18.2
356	[96]		1.77		-	1.37	-29.2		-	1.674	-5.7	1.522	-16.3
357	[96]		1.85		-	1.456	-27.1	2.196	15.8	1.782	-3.8	1.619	-14.3
358	[96]		1.85		-		-	2.158	14.3	1.805	-2.5	1.982	6.7
359	[96]		1.91		-		-		-	1.644	-16.2	-	-
360	[96]		1.81		-		-	2.076	12.8	1.782	-1.6	1.929	6.2
362	[96]		1.90 (predicted)		-		-	1.937	1.9	2.095	9.3	2.016	5.8
363	[96]		1.81		-		-	2.056	12	1.729	-4.7	1.893	4.4
364	[96]		1.82		-		-	2.067	11.9	1.776	-2.5	1.921	5.3
369	[97]		1.70		-		-		-	1.768	3.8	1.937	12.2
371	[98]		1.772	1.748	-1.4		-		-	1.721	-3	1.735	-2.1
372	[98]		1.780	1.733	-2.7		-		-	1.717	-3.7	1.725	-3.2
373	[98]		1.802	1.733	-4		-		-	1.707	-5.6	1.72	-4.8

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
374	[98]		1.814	1.719	-5.5		-		-	1.733	-4.7	1.726	-5.1
377	[99]		1.47		-		-		-	1.414	-4	-	-
378	[99]		1.52		-		-		-	1.536	1	-	-
391	[99]		1.87		-		-	2.067	9.5	1.776	-5.3	1.921	2.7
396	[99]		1.65		-		-		-	1.662	0.7	-	-
397	[99]		1.68		-		-		-	1.661	-1.1	-	-
398	[99]		1.77		-		-	1.927	8.1	1.772	0.1	1.849	4.3
399	[99]		1.78		-		-	2.027	12.2	1.777	-0.2	1.902	6.4
400	[99]		1.74		-		-	2.05	15.1	1.787	2.6	1.918	9.3
401	[99]		1.71		-		-		-	1.683	-1.6	-	-
423	[99]		1.58		-		-	2.009	21.4	1.589	0.6	1.799	12.2
424	[99]		1.66		-		-	1.825	9	1.614	-2.9	1.72	3.5
425	[99]		1.66		-		-	1.892	12.3	1.663	0.2	1.777	6.6

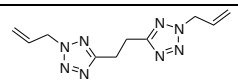
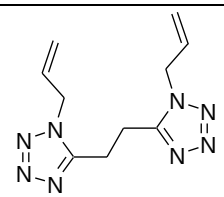
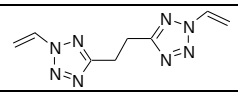
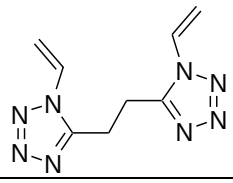
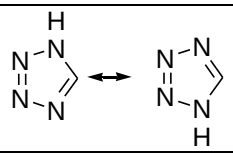
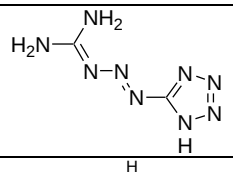
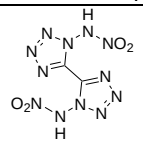
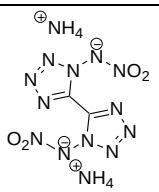
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
426	[99]		1.69		-		-	1.927	12.3	1.753	3.6	1.84	8.2
427	[99]		1.71		-		-	1.919	10.9	1.699	-0.6	1.809	5.5
428	[99]		1.81		-		-	1.966	7.9	1.785	-1.4	1.875	3.5
429	[99]		1.72		-		-	1.919	10.4	1.699	-1.2	1.809	4.9
430	[100]		1.68		-		-		-	1.67	-0.6	-	-
431	[100]		1.65		-		-		-	1.648	-0.1	-	-
432	[101]		1.596		-		-		-	1.685	5.3	-	-
433	[101]		1.863		-		-	2.013	7.5	1.883	1.1	1.948	4.4
434	[101]		1.908		-		-	1.869	-2.1	1.822	-4.7	1.845	-3.4
435	[101]		1.932		-		-	1.92	-0.6	1.891	-2.2	1.905	-1.4
436	[101]		1.822	1.691	-7.7		-		-	1.676	-8.7	1.683	-8.3
437	[101]		1.834	1.669	-9.9		-		-	1.691	-8.5	1.68	-9.2
438	[101]		1.659	1.641	-1.1		-		-	1.673	0.8	1.657	-0.1
439			1.679	1.627	-3.2		-		-	1.685	0.4	1.656	-1.4

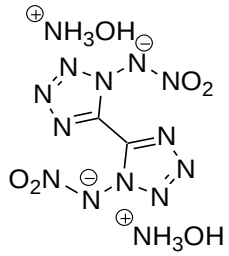
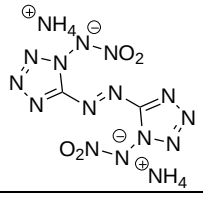
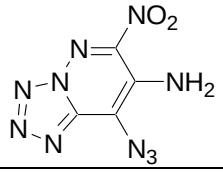
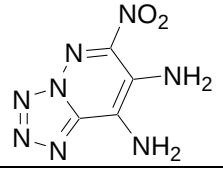
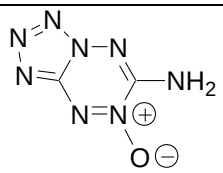
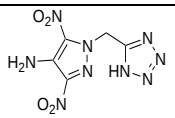
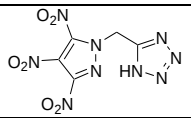
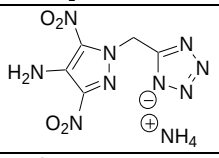
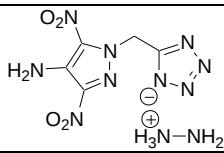
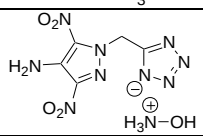
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440	[101]		1.687	1.665	-1.3		-		-	1.71	1.3	1.688	0.1
441			1.780	1.691	-5.3		-		-	1.711	-4	1.701	-4.6
442	[101]		1.761	1.674	-5.2		-		-	1.721	-2.3	1.698	-3.7
443	[101]		1.752	1.674	-4.7		-		-	1.735	-1	1.704	-2.8
444	[101]		1.815	1.763	-2.9		-		-	1.761	-3.1	1.762	-3
445	[101]		1.847	1.746	-5.8		-		-	1.766	-4.6	1.756	-5.2
446	[101]		1.844	1.785	-3.3		-		-	1.757	-5	1.771	-4.1
447	[101]		1.677	1.722	2.6		-		-	1.746	4	1.734	3.3
448	[101]		1.670	1.709	2.3		-		-	1.751	4.6	1.73	3.5
449	[101]		1.676	1.73	3.1		-		-	1.765	5	1.748	4.1
450	[101]		1.720	1.751	1.8		-		-	1.77	2.8	1.76	2.3
451	[101]		1.748	1.737	-0.6		-		-	1.774	1.5	1.756	0.5
452	[101]		1.716	1.737	1.2		-		-	1.784	3.8	1.76	2.5
463	[24]		1.441		-		-		-	1.523	5.4	-	-

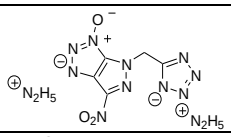
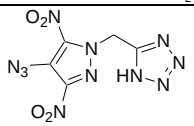
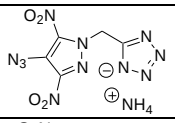
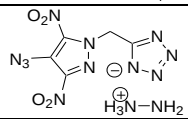
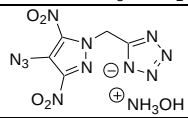
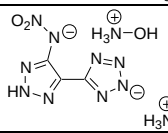
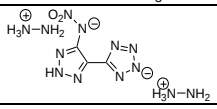
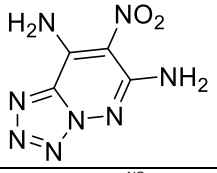
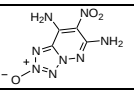
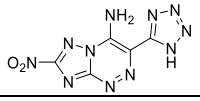
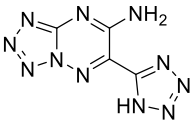
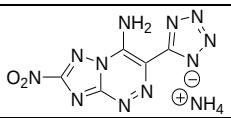
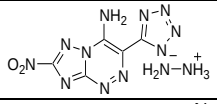
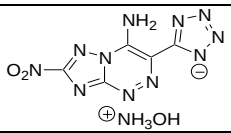
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464	[24]		1.91		-		-		-	1.868	-2.2	1.901	-0.5
468	[105]		1.83		-		-	1.908	4.1	1.839	0.5	1.873	2.3

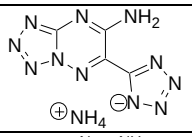
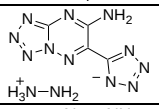
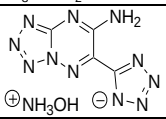
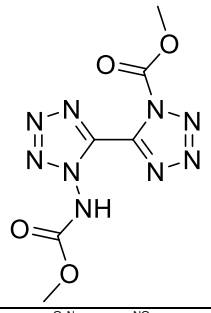
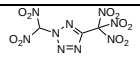
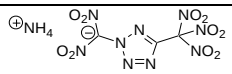
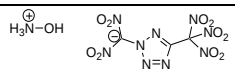
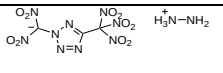
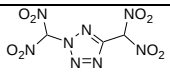
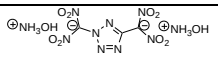
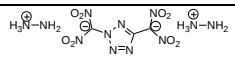
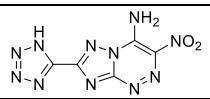
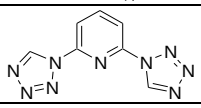
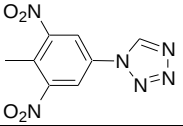
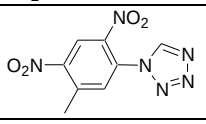
2.4.13 The densities of tetrazoles

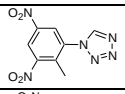
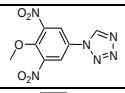
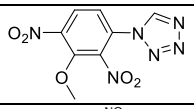
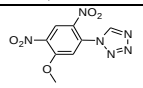
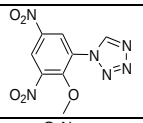
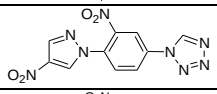
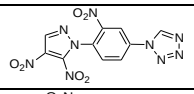
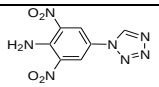
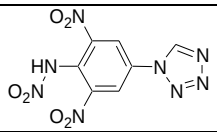
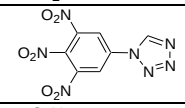
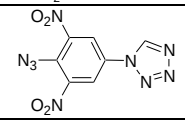
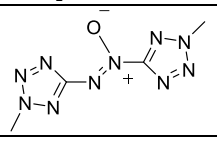
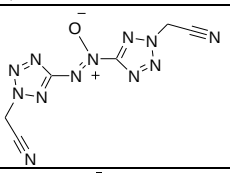
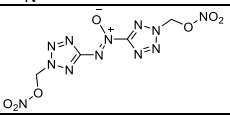
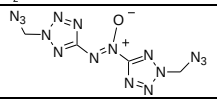
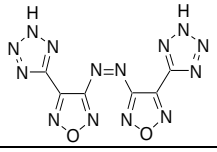
Table 85. Table summarizing the structural formulae, empirical formulae and the densities of the tetrazoles.

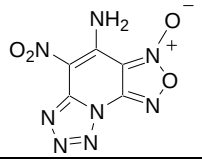
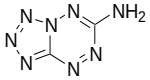
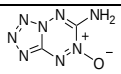
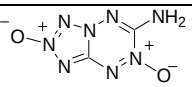
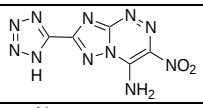
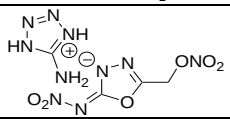
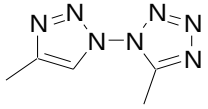
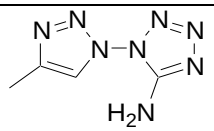
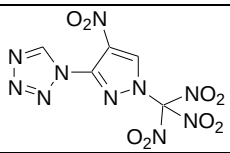
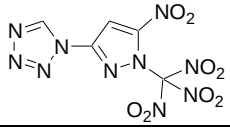
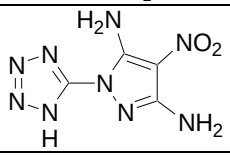
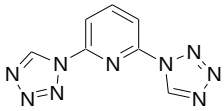
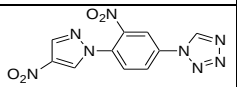
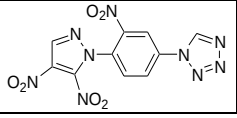
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
12	[30]		1.2		-		-		-	1.255	4.4	-	-
13	[30]		1.2		-		-		-	1.255	4.4	-	-
14	[30]		1.4		-		-		-	1.324	-5.7	-	-
15	[30]		1.4		-		-		-	1.324	-5.7	-	-
58	[38]		1.529		-		-		-	1.582	3.4	-	-
63	[38]		1.64		-		-		-	1.538	-6.6	1.768	7.2
109	[56]		1.93		-		-	2.134	9.6	1.921	-0.5	2.027	4.8
110	[56]		1.795	1.724	-4.1		-		-	1.705	-5.3	1.715	-4.7

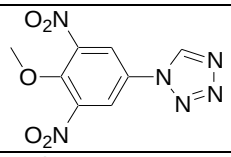
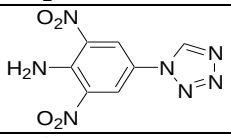
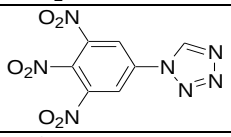
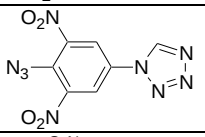
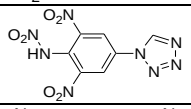
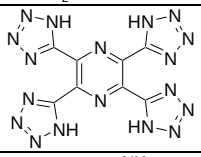
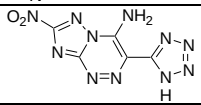
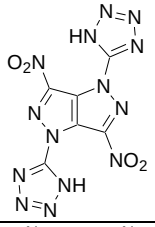
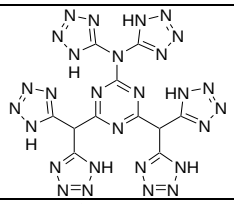
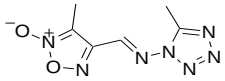
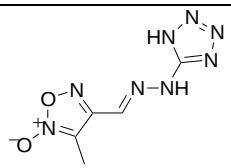
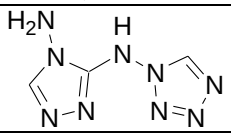
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
111	[56]		1.842	1.766	-4.3		-		-	1.751	-5.2	1.758	-4.8
112	[56]		1.753	1.736	-1		-		-	1.675	-4.7	1.706	-2.8
131	[61]		1.82		-	1.39	-30.9	2.107	13.6	1.749	-4.1	1.57	-15.9
132	[61]		1.8		-		-	1.948	7.6	1.766	-1.9	1.857	3.1
149	[40]		1.874		-		-		-	1.839	-1.9	-	-
173	[69]		1.83		-		-	2.08	12	1.753	-4.4	1.917	4.5
174	[69]		1.86		-		-	1.958	5	1.824	-2	1.891	1.6
175	[69]		1.68	1.669	-0.7		-		-	1.659	-1.3	1.664	-1
176	[69]		1.65	1.812	8.9		-		-	1.668	1.1	1.74	5.2
177	[69]		1.75	1.695	-3.2		-		-	1.685	-3.9	1.69	-3.6

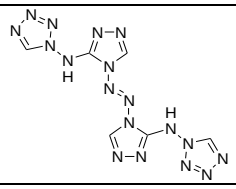
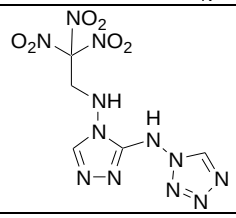
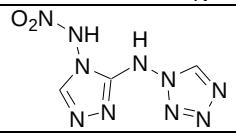
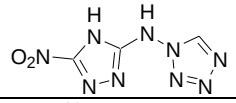
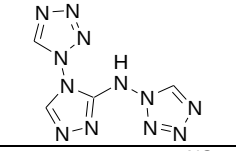
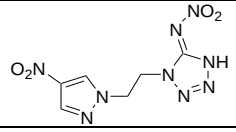
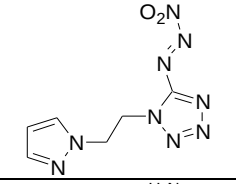
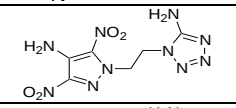
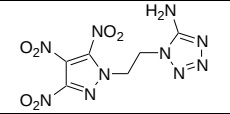
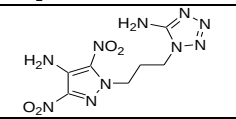
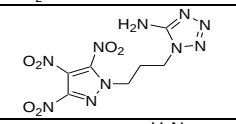
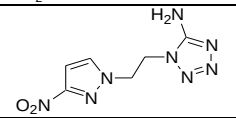
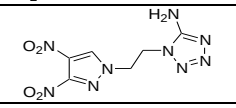
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
178	[69]		1.69	1.604	-5.4		-		-	1.658	-1.9	1.631	-3.6
179	[69]		1.812		-	1.473	-23	2.031	10.8	1.741	-4.1	1.607	-12.8
180	[69]		1.64	1.725	4.9		-		-	1.657	1	1.691	3
181	[69]		1.72	1.712	-0.5		-		-	1.665	-3.3	1.688	-1.9
182	[69]		1.76	1.746	-0.8		-		-	1.659	-6.1	1.703	-3.3
208	[74]		1.82	1.672	-8.9		-		-	1.644	-10.7	1.658	-9.8
209	[74]		1.71	1.588	-7.7		-		-	1.608	-6.3	1.598	-7
223	[78]		1.869		-		-	1.948	4.1	1.766	-5.8	1.857	-0.6
224	[78]		1.886		-		-	2.033	7.2	1.856	-1.6	1.945	3
231	[80]		1.873		-		-	2.067	9.4	1.776	-5.5	1.921	2.5
232	[80]		1.795		-		-		-	1.714	-4.7	-	-
233	[80]		1.811	1.674	-8.2		-		-	1.676	-8.1	1.675	-8.1
234	[80]		1.855	1.662	-11.6		-		-	1.685	-10.1	1.673	-10.9
235	[80]		1.859	1.701	-9.3		-		-	1.678	-10.8	1.69	-10

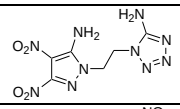
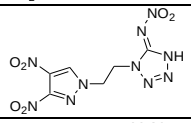
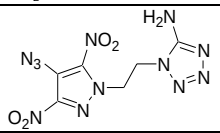
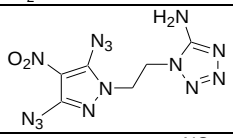
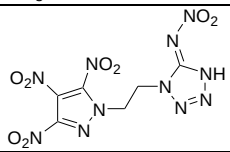
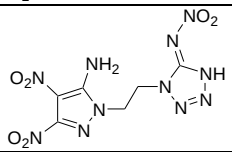
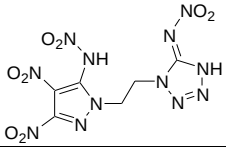
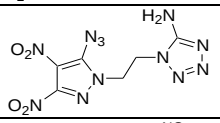
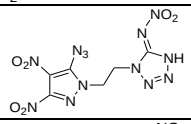
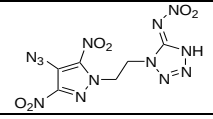
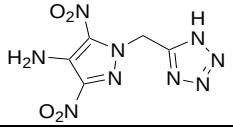
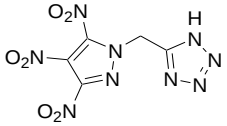
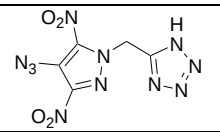
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
236	[80]		1.725	1.615	-6.8		-		-	1.608	-7.3	1.611	-7.1
237	[80]		1.742	1.605	-8.5		-		-	1.622	-7.4	1.614	-7.9
238	[80]		1.751	1.651	-6.1		-		-	1.614	-8.5	1.633	-7.2
241	[82]		1.64		-		-		-	1.59	-3.1	-	-
254	[85]		1.88		-		-	1.997	5.9	1.95	3.6	1.974	4.8
255	[85]		1.79	1.884	5		-		-	1.896	5.6	1.89	5.3
256	[85]		1.92	1.896	-1.3		-		-	1.912	-0.4	1.896	-1.3
257	[85]		1.81	1.866	3		-		-	1.904	4.9	1.895	4.5
258	[85]		1.92	1.964	2.2		-		-	1.881	-2.1	1.922	0.1
259	[85]		1.91	1.814	-5.3		-		-	1.82	-4.9	1.817	-5.1
260	[85]		1.83	1.751	-4.5		-		-	1.787	-2.4	1.769	-3.4
268	[88]		1.819		-		-	2.067	12	1.776	-2.4	1.921	5.3
283	[92]		1.59		-		-		-	1.518	-4.7	1.724	7.8
284	[92]		1.66		-		-		-	1.577	-5.3	1.661	0.1
285	[92]		1.63		-		-	1.745	6.6	1.577	-3.4	1.661	1.9

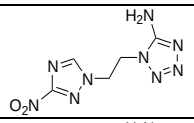
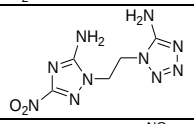
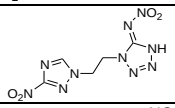
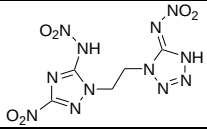
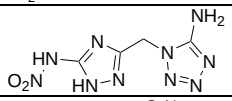
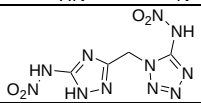
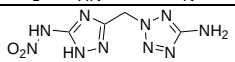
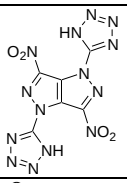
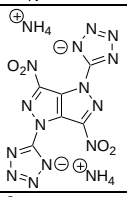
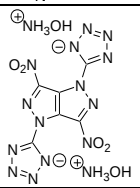
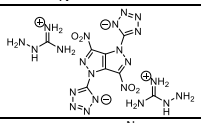
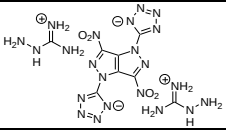
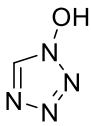
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
286	[92]		1.62		-		-	1.745	7.2	1.577	-2.7	1.661	2.5
287	[92]		1.7		-		-	1.746	2.6	1.608	-5.7	1.677	-1.4
288	[92]		1.62		-		-	1.746	7.2	1.608	-0.7	1.677	3.4
289	[92]		1.65		-		-	1.746	5.5	1.608	-2.6	1.677	1.6
290	[92]		1.66		-		-	1.746	4.9	1.608	-3.2	1.677	1
291	[92]		1.64		-		-	1.812	9.5	1.627	-0.8	1.72	4.7
292	[92]		1.68		-		-	1.862	9.8	1.705	1.5	1.784	5.8
293	[92]		1.69		-		-	1.825	7.4	1.675	-0.9	1.75	3.4
294	[92]		1.76		-		-	1.882	6.5	1.755	-0.3	1.818	3.2
295	[92]		1.83		-		-	1.89	3.2	1.75	-4.6	1.82	-0.5
296	[92]		1.7		-	1.361	-24.9	1.964	13.4	1.671	-1.7	1.665	-2.1
297	[93]		1.57		-		-		-	1.534	-2.3	-	-
298	[93]		1.58		-		-		-	1.554	-1.7	-	-
299	[93]		1.68		-		-	1.937	13.3	1.756	4.3	1.847	9
300	[93]		1.59		-	1.4	-13.6		-	1.597	0.4	1.498	-6.1
310	[95]		1.69		-		-		-	1.715	1.5	-	-

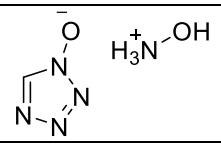
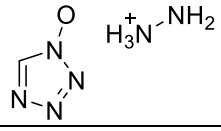
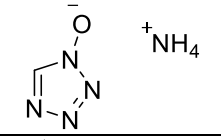
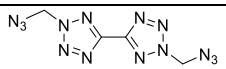
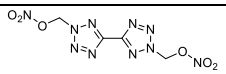
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
335	[96]		1.92		-		-	1.939	1	1.944	1.2	2.03	5.4
347	[96]		1.68		-		-		-	1.714	2	-	-
348	[96]		1.87		-		-		-	1.839	-1.7	-	-
349	[96]		1.93		-		-		-	1.955	1.3	-	-
364	[96]		1.82		-		-	2.067	11.9	1.776	-2.5	1.921	5.3
375	[98]		1.796	1.768	-1.6		-		-	1.709	-5.1	1.739	-3.3
377	[99]		1.47		-		-		-	1.414	-4	-	-
378	[99]		1.52		-		-		-	1.536	1	-	-
379	[99]		1.79		-		-	1.991	10.1	1.886	5.1	1.938	7.6
380	[99]		1.76		-		-	1.991	11.6	1.886	6.7	1.938	9.2
381	[99]		1.76		-		-	1.933	8.9	1.772	0.7	1.853	5
382	[99]		1.59		-		-		-	1.518	-4.7	1.724	7.8
383	[99]		1.64		-		-	1.812	9.5	1.627	-0.8	1.72	4.7
384	[99]		1.68		-		-	1.862	9.8	1.705	1.5	1.784	5.8

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
385	[99]		1.7		-		-	1.746	2.6	1.608	-5.7	1.677	-1.4
386	[99]		1.69		-		-	1.825	7.4	1.675	-0.9	1.75	3.4
387	[99]		1.83		-		-	1.89	3.2	1.75	-4.6	1.82	-0.5
388	[99]		1.7		-	1.361	-24.9	1.964	13.4	1.671	-1.7	1.516	-12.1
389	[99]		1.76		-		-	1.882	6.5	1.755	-0.3	1.755	-0.3
390	[99]		1.95		-		-		-	1.681	-16	-	-
391	[99]		1.87		-		-	2.067	9.5	1.776	-5.3	1.921	2.7
392	[99]		1.79		-		-	2.107	15	1.893	5.4	2	10.5
393	[99]		1.88		-		-		-	1.664	-13	-	-
394	[99]		1.531		-		-		-	1.49	-2.8	-	-
395	[99]		1.62		-		-		-	1.595	-1.6	-	-
396	[99]		1.65		-		-		-	1.662	0.7	-	-

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
397	[99]		1.68		-		-		-	1.661	-1.1	-	-
398	[99]		1.77		-		-	1.927	8.1	1.772	0.1	1.849	4.3
399	[99]		1.78		-		-	2.027	12.2	1.777	-0.2	1.902	6.4
400	[99]		1.74		-		-	2.05	15.1	1.787	2.6	1.918	9.3
401	[99]		1.71		-		-		-	1.683	-1.6	-	-
402	[99]		1.65		-		-	1.818	9.2	1.649	-0.1	1.734	4.8
403	[99]		1.5		-		-	1.827	17.9	1.509	0.6	1.668	10.1
404	[99]		1.67		-		-	1.992	16.2	1.678	0.5	1.835	9
405	[99]		1.71		-		-	1.873	8.7	1.745	2	1.809	5.5
406	[99]		1.65		-		-	1.92	14.1	1.611	-2.4	1.765	6.5
407	[99]		1.67		-		-	1.805	7.5	1.676	0.4	1.74	4
408	[99]		1.53		-		-	1.92	20.3	1.552	1.4	1.736	11.9
409	[99]		1.59		-		-	1.818	12.5	1.659	4.2	1.739	8.6

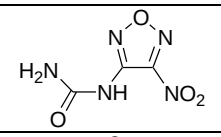
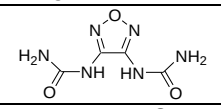
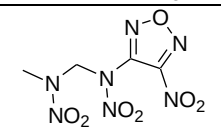
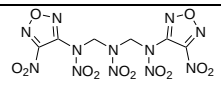
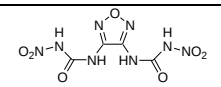
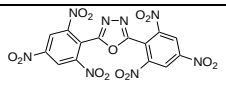
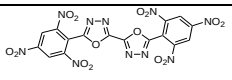
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
410	[99]		1.68		-		-	1.992	15.7	1.678	-0.1	1.835	8.4
411	[99]		1.69		-		-	1.873	9.8	1.735	2.6	1.804	6.3
412	[99]		1.7		-	1.443	-17.8	1.938	12.3	1.674	-1.6	1.558	-9.1
413	[99]		1.63		-	1.384	-17.8	2.005	18.7	1.608	-1.4	1.496	-9
414	[99]		1.77		-		-	1.914	7.5	1.788	1	1.851	4.4
415	[99]		1.76		-		-	2.045	13.9	1.731	-1.7	1.888	6.8
416	[99]		1.84		-		-	1.907	3.5	1.791	-2.7	1.849	0.5
417	[99]		1.71		-	1.443	-18.5	1.938	11.8	1.674	-2.2	1.558	-9.8
418	[99]		1.81		-	1.544	-17.2	1.971	8.2	1.453	-24.6	1.498	-20.8
419	[99]		1.78		-	1.544	-15.3	1.971	9.7	1.724	-3.2	1.634	-8.9
420	[99]		1.83		-		-	2.08	12	1.753	-4.4	1.917	4.5
421	[99]		1.86		-		-	1.958	5	1.824	-2	1.891	1.6
422	[99]		1.81		-	1.473	-22.9	2.031	10.9	1.741	-4	1.607	-12.6

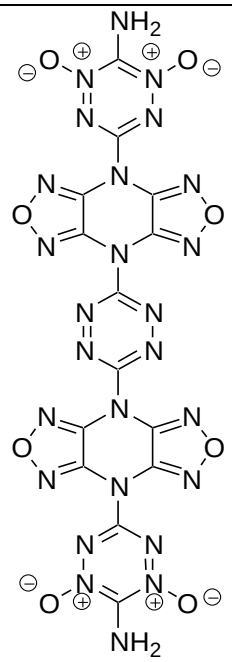
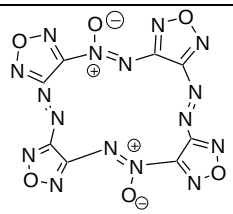
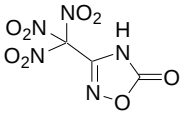
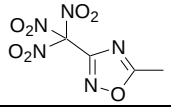
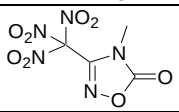
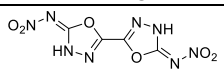
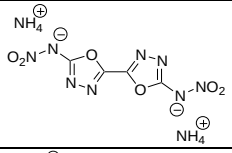
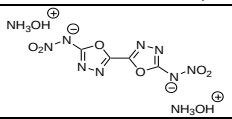
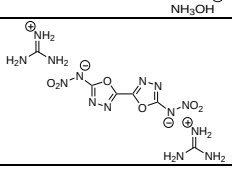
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423	[99]		1.58		-		-	2.009	21.4	1.589	0.6	1.799	12.2
424	[99]		1.66		-		-	1.825	9	1.614	-2.9	1.72	3.5
425	[99]		1.66		-		-	1.892	12.3	1.663	0.2	1.777	6.6
426	[99]		1.69		-		-	1.927	12.3	1.753	3.6	1.84	8.2
427	[99]		1.71		-		-	1.919	10.9	1.699	-0.6	1.809	5.5
428	[99]		1.81		-		-	1.966	7.9	1.785	-1.4	1.875	3.5
429	[99]		1.72		-		-	1.919	10.4	1.699	-1.2	1.809	4.9
454	[103]		1.79		-		-	2.107	15	1.893	5.4	2	10.5
455	[103]		1.69	1.705	0.9		-		-	1.724	2	1.715	1.5
456	[103]		1.61	1.74	7.5		-		-	1.76	8.5	1.75	8
457	[103]		1.75	1.648	-6.2		-		-	1.72	-1.7	1.684	-3.9
458	[103]		1.64	1.648	0.5		-		-	1.72	4.7	1.684	2.6
474	[106]		1.63		-		-	2.075	21.4	1.681	3	1.825	10.7

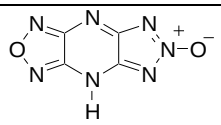
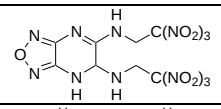
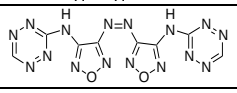
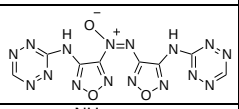
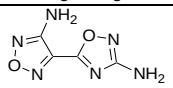
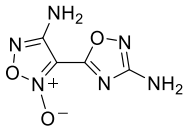
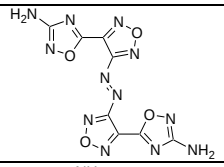
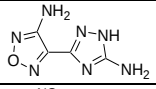
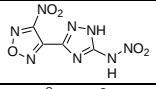
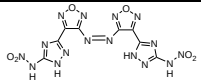
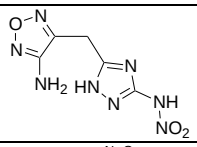
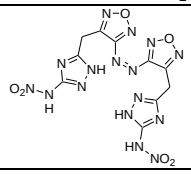
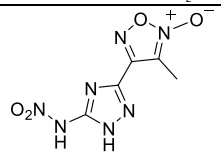
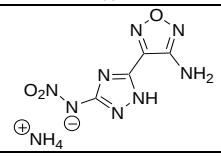
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
475	[106]		1.67	1.646	-1.5		-		-	1.634	-2.2	1.785	6.4
476	[106]		1.6	1.553	-3		-		-	1.594	-0.4	1.574	-1.7
477	[106]		1.4	1.568	10.7		-		-	1.562	10.4	1.574	11.1
478	[107]		1.62		-	1.311	-23.6	2.147	24.5	1.551	-4.4	1.67	3
479	[107]		1.69		-		-	1.955	13.6	1.764	4.2	1.86	9.1

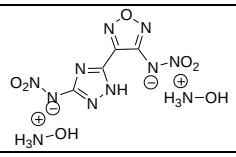
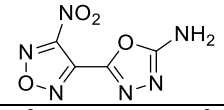
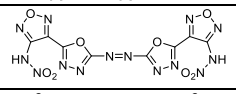
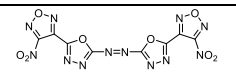
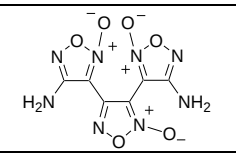
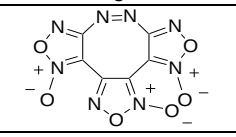
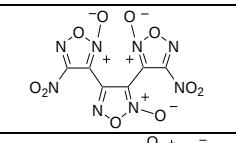
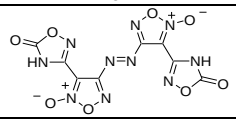
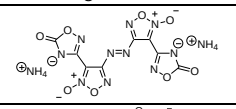
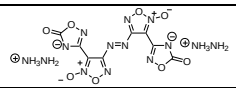
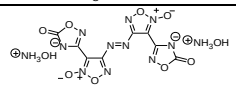
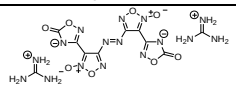
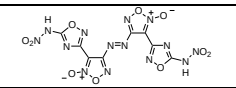
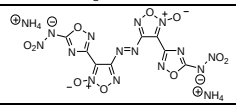
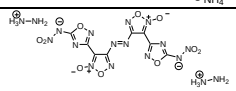
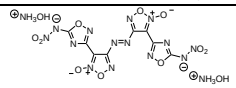
2.4.14 The densities of oxazoles

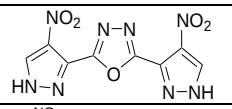
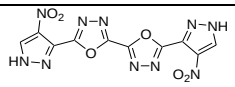
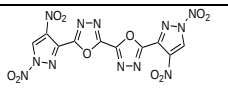
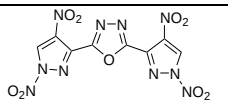
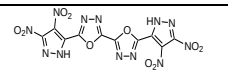
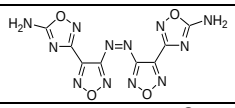
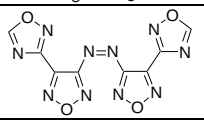
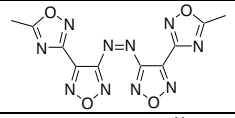
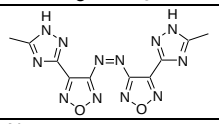
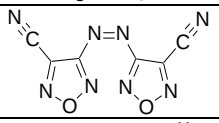
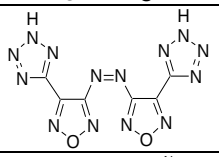
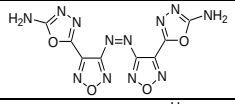
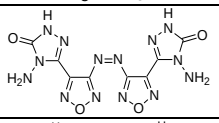
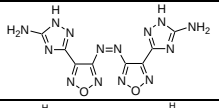
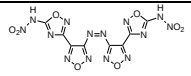
Table 86. Table summarizing the structural formulae, empirical formulae and the densities of the oxazoles.

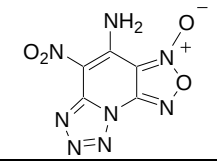
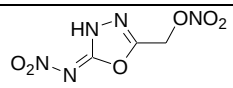
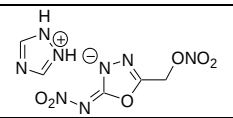
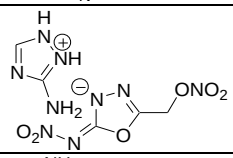
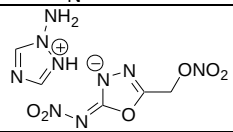
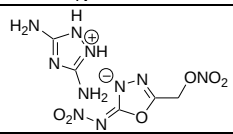
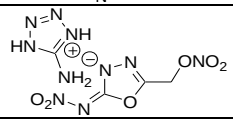
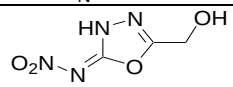
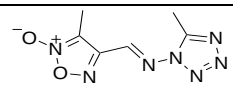
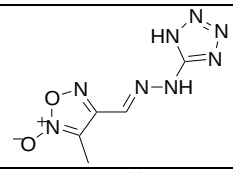
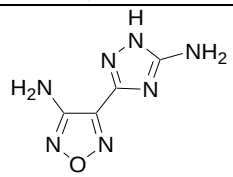
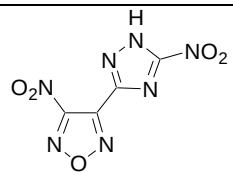
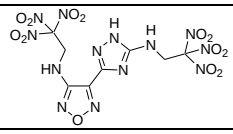
		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
4	[25]		1.68		-		-	1.862	9.8	1.811	7.2	1.837	8.5
8	[25]		1.95		-		-	1.742	-11.9	1.697	-14.9	1.72	-13.4
10	[29]		1.74		-		-	1.921	9.4	1.767	1.5	1.844	5.6
11	[29]		1.9		-		-	1.932	1.7	1.884	-0.8	1.908	0.4
16	[25]		1.87		-		-	1.892	1.2	1.875	0.3	1.883	0.7
22	[32] [33]		1.77		-		-	1.831	3.3	1.779	0.5	1.805	1.9
23	[32]		1.837		-		-	1.857	1.1	1.781	-3.1	1.819	-1

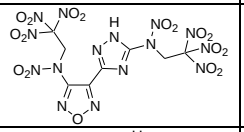
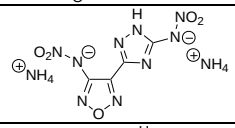
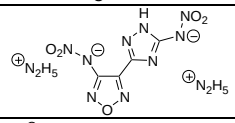
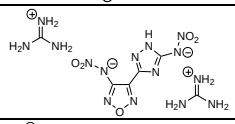
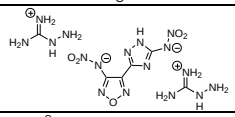
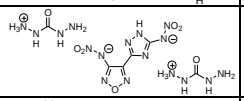
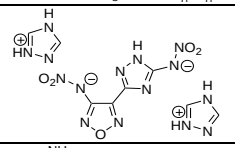
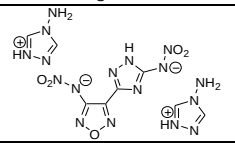
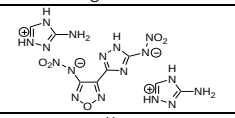
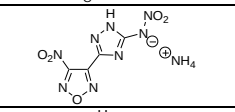
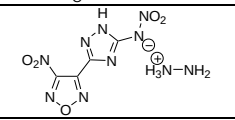
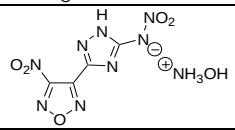
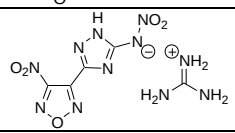
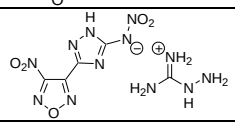
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
42	[38]		1.903		-		-		-	1.893	-0.5	-	-
43	[38] [39]		1.761		-		-		-	1.786	1.4	-	-
96	[54]		1.95		-		-	1.92	-1.6	1.972	1.1	1.946	-0.2
97	[54]		1.84		-		-	1.834	-0.3	1.784	-3.1	1.809	-1.7
98	[54]		1.8		-		-	1.829	1.6	1.833	1.8	1.831	1.7
123	[58]		1.98		-		-	1.981	0.1	1.849	-7.1	1.915	-3.4
124	[58]		1.95	1.728	-12.8		-		-	1.693	-15.2	1.711	-14
125	[58]		1.92	1.77	-8.5		-		-	1.725	-11.3	1.748	-9.8
126	[58]		1.79	1.67	-7.2		-		-	1.686	-6.2	1.678	-6.7

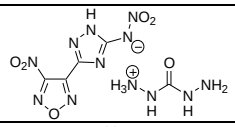
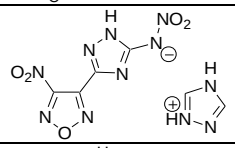
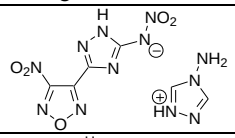
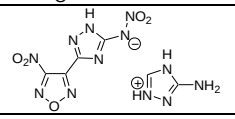
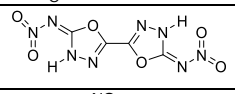
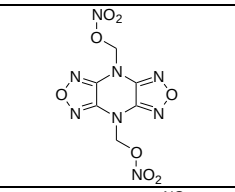
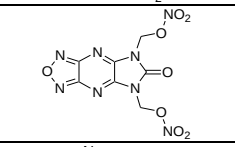
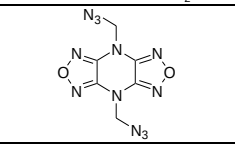
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
137	[63]		1.85		-		-		-	1.87	1.1	-	-
138	[63]		1.8		-		-	1.83	1.6	1.806	0.3	1.818	1
162	[67]		1.67		-		-		-	1.609	-3.8	-	-
163	[67]		1.75		-		-		-	1.657	-5.6	-	-
191	[71]		1.68		-		-		-	1.716	2.1	-	-
192	[71]		1.788		-		-		-	1.819	1.7	-	-
193	[71]		1.652		-		-		-	1.716	3.7	-	-
194	[71]		1.716		-		-		-	1.685	-1.8	-	-
197	[73]		1.851		-		-	1.996	7.3	1.881	1.6	1.938	4.5
198	[73]		1.873		-		-	2.033	7.9	1.799	-4.1	1.916	2.2
199	[73]		1.695		-		-	1.832	7.5	1.692	-0.2	1.762	3.8
200	[73]		1.704		-		-	1.924	11.4	1.692	-0.7	1.808	5.8
201	[73]		1.741		-		-	1.932	9.9	1.75	0.5	1.841	5.4
202	[73]		1.68	1.658	-1.3		-		-	1.679	-0.1	1.668	-0.7

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
203	[73]		1.85	1.736	-6.6		-		-	1.723	-7.4	1.73	-6.9
220	[77]		1.747		-		-	1.95	10.4	1.823	4.2	1.976	11.6
221	[77]		1.767		-		-	2.033	13.1	1.826	3.2	1.929	8.4
222	[77]		1.825		-		-	2.056	11.2	1.824	-0.1	1.94	5.9
242	[83]		1.787		-		-		-	1.953	8.5	-	-
243	[83]		1.895		-		-		-	2.017	6	2.076	8.7
244	[83]		1.914		-		-		-	2.062	7.2	-	-
245	[84]		1.9		-		-		-	1.925	1.3	-	-
246	[84]		1.65	1.743	5.3		-		-	1.762	6.4	1.752	5.8
247	[84]		1.71	1.723	0.8		-		-	1.768	3.3	1.746	2.1
248	[84]		1.72	1.773	3		-		-	1.794	4.1	1.784	3.6
249	[84]		1.65	1.695	2.7		-		-	1.744	5.4	1.72	4.1
250	[84]		1.92		-		-	2.112	9.1	2.013	4.6	2.062	6.9
251	[84]		1.66	1.782	6.8		-		-	1.778	6.6	1.78	6.7
252	[84]		1.74	1.763	1.3		-		-	1.782	2.4	1.772	1.8
253	[84]		1.72	1.805	4.7		-		-	1.804	4.7	1.804	4.7

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
262	[87]		1.8		-		-	1.884	4.5	1.768	-1.8	1.826	1.4
263	[87]		1.809		-		-	1.914	5.5	1.773	-2	1.843	1.8
264	[87]		1.831		-		-	1.972	7.2	1.903	3.8	1.976	7.3
265	[87]		1.844		-		-	1.959	5.9	1.897	2.8	1.92	4
266	[87]		1.87		-		-	1.972	5.2	1.885	0.8	1.929	3.1
305	[95]		1.85		-		-		-	1.716	-7.8	-	-
306	[95]		1.68		-		-		-	1.684	0.2	-	-
307	[95]		1.75		-		-		-	1.567	-11.7	-	-
308	[95]		1.81		-		-		-	1.54	-17.5	-	-
309	[95]		1.62		-		-		-	1.613	-0.4	-	-
310	[95]		1.69		-		-		-	1.715	1.5	-	-
311	[95]		1.83		-		-		-	1.716	-6.6	-	-
312	[95]		1.68		-		-		-	1.79	6.1	-	-
313	[95]		1.79		-		-		-	1.685	-6.2	-	-
314	[95]		2.12		-		-	2.033	-4.3	1.826	-16.1	1.929	-9.9

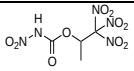
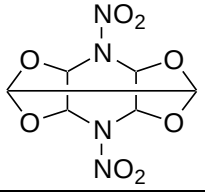
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
335	[96]		1.92		-		-	1.939	1	1.944	1.2	2.03	5.4
370	[98]		1.875		-		-	1.794	-4.5	1.796	-4.4	1.795	-4.5
371	[98]		1.772	1.748	-1.4		-		-	1.721	-3	1.735	-2.1
372	[98]		1.78	1.733	-2.7		-		-	1.717	-3.7	1.725	-3.2
373	[98]		1.802	1.733	-4		-		-	1.707	-5.6	1.72	-4.8
374	[98]		1.814	1.719	-5.5		-		-	1.733	-4.7	1.726	-5.1
375	[98]		1.796	1.768	-1.6		-		-	1.709	-5.1	1.739	-3.3
376	[98]		1.811		-		-	1.943	6.8	1.678	-7.9	1.81	-0.1
394	[99]		1.531		-		-		-	1.49	-2.8	-	-
395	[99]		1.62		-		-		-	1.595	-1.6	-	-
432	[101]		1.596		-		-		-	1.685	5.3	-	-
433	[101]		1.863		-		-	2.013	7.5	1.883	1.1	1.948	4.4
434	[101]		1.908		-		-	1.869	-2.1	1.822	-4.7	1.845	-3.4

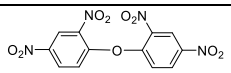
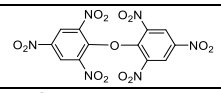
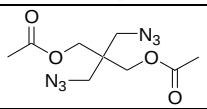
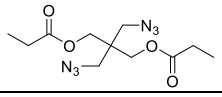
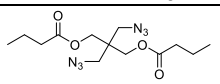
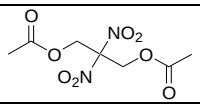
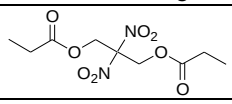
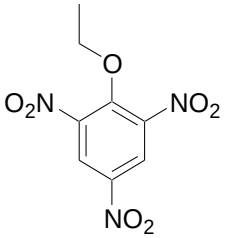
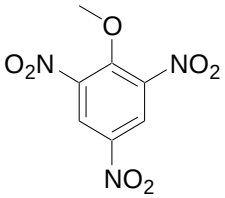
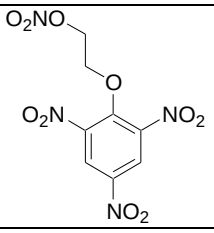
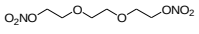
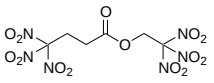
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
435	[101]		1.932		-		-	1.92	-0.6	1.891	-2.2	1.905	-1.4
436	[101]		1.822	1.691	-7.7		-		-	1.676	-8.7	1.683	-8.3
437	[101]		1.834	1.669	-9.9		-		-	1.691	-8.5	1.68	-9.2
438	[101]		1.659	1.641	-1.1		-		-	1.673	0.8	1.657	-0.1
439			1.679	1.627	-3.2		-		-	1.685	0.4	1.656	-1.4
440	[101]		1.687	1.665	-1.3		-		-	1.71	1.3	1.688	0.1
441			1.78	1.691	-5.3		-		-	1.711	-4	1.701	-4.6
442	[101]		1.761	1.674	-5.2		-		-	1.721	-2.3	1.698	-3.7
443	[101]		1.752	1.674	-4.7		-		-	1.735	-1	1.704	-2.8
444	[101]		1.815	1.763	-2.9		-		-	1.761	-3.1	1.762	-3
445	[101]		1.847	1.746	-5.8		-		-	1.766	-4.6	1.756	-5.2
446	[101]		1.844	1.785	-3.3		-		-	1.757	-5	1.771	-4.1
447	[101]		1.677	1.722	2.6		-		-	1.746	4	1.734	3.3
448	[101]		1.67	1.709	2.3		-		-	1.751	4.6	1.73	3.5

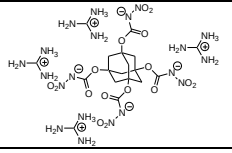
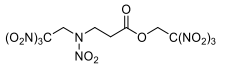
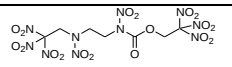
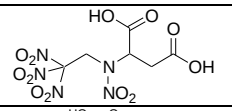
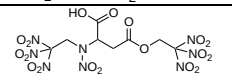
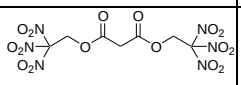
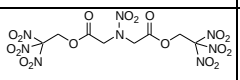
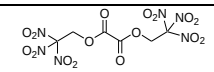
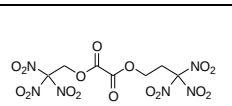
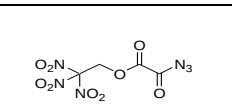
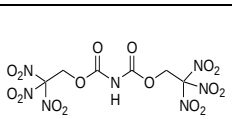
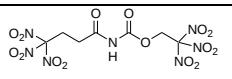
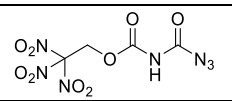
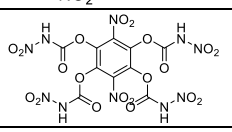
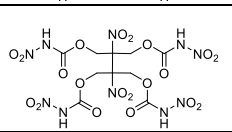
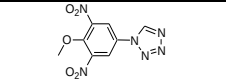
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
449	[101]		1.676	1.73	3.1		-		-	1.765	5	1.748	4.1
450	[101]		1.72	1.751	1.8		-		-	1.77	2.8	1.76	2.3
451	[101]		1.748	1.737	-0.6		-		-	1.774	1.5	1.756	0.5
452	[101]		1.716	1.737	1.2		-		-	1.784	3.8	1.76	2.5
453	[102]		1.99		-		-	1.981	-0.5	1.849	-7.6	1.915	-3.9
466	[105]		1.84		-		-	1.874	1.8	1.853	0.7	1.864	1.3
467	[105]		1.79		-		-	1.87	4.3	1.84	2.7	1.855	3.5
470	[105]		1.68		-	1.357	-23.8		-	1.652	-1.7	1.504	-11.7

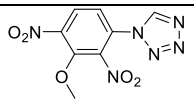
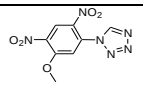
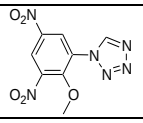
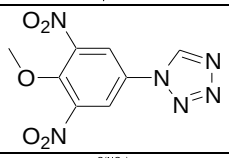
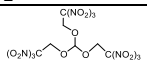
2.4.15 The densities of ethers and esters

Table 87. Table summarizing the structural formulae, empirical formulae and the densities of the ethers and esters.

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
2	[22]		1.58		-		-	1.747	9.6	1.792	11.8	1.77	10.7
3	[23] [24]		1.985		-		-	1.769	-12.2	2.007	1.1	1.888	-5.1

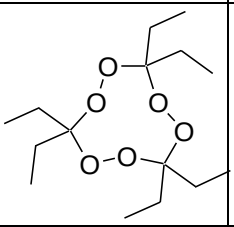
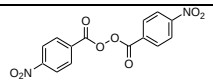
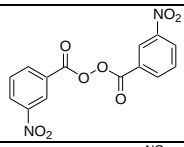
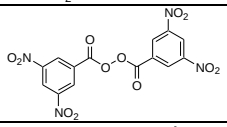
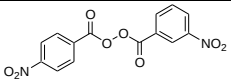
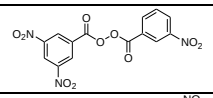
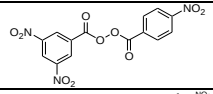
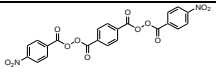
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
24	[34]		1.689		-		-	1.606	-5.2	1.667	-1.3	1.637	-3.2
25	[34]		1.7		-		-	1.71	0.6	1.792	5.1	1.746	2.6
26	[35]		1.21		-	1.226	1.3	1.443	16.1	1.28	5.5		-
27	[35]		1.16		-	1.171	0.9	1,335	99.9	1.23	5.7	1.316	11.9
28	[35]		1.09		-	1.123	2.9	1.245	12.4	1.192	8.6	1.251	12.9
29	[35]		1.33		-		-	1.423	6.5	1.478	10	1.347	1.3
30	[35]		1.22		-		-	1.309	6.8	1.386	12	1.348	9.5
39	[26]		1.554		-		-	1.59	2.3	1.59	2.3	1.59	2.3
40	[38]		1.7		-		-	1.665	-2.1	1.665	-2.1	1.665	-2.1
41	[38]		1.723		-		-	1.684	-2.3	1.707	-0.9	1.696	-1.6
44	[38]		1.344		-		-	1.273	-5.6	1.452	7.4	1.362	1.3
45	[38]		1.78		-		-	1.748	-1.8	1.78	0	1.764	-0.9

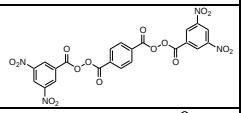
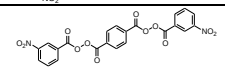
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
76	[49]		1.54	1.551	0.7		-		-	1.561	1.3	1.556	1
79	[50]		1.73		-		-	1.747	1	1.773	2.4	1.76	1.7
81	[50]		1.89		-		-	1.786	-5.8	1.816	-4.1	1.762	-7.3
82	[50]		1.66		-		-	1.787	7.1	1.738	4.5	1.762	5.8
83	[50]		1.65		-		-	1.847	10.7	1.787	7.7	1.817	9.2
94	[53]		1.76		-		-	1.748	-0.7	1.789	1.6	1.768	0.5
95	[53]		1.78		-		-	1.748	-1.8	1.781	0.1	1.764	-0.9
113	[57]		1.84		-		-	1.797	-2.4	1.851	0.6	1.824	-0.9
114	[57]		1.73		-		-	1.748	1	1.789	3.3	1.769	2.2
115	[57]		1.75		-	1.858	5.8		-	1.782	1.8	1.82	3.8
116	[57]		1.92		-		-	1.795	-7	1.851	-3.7	1.823	-5.3
117	[57]		1.63		-		-	1.748	6.8	1.776	8.2	1.762	7.5
118	[57]		1.5		-	1.878	20.1		-	1.785	16	1.831	18.1
129	[60]		1.71		-		-	1.852	7.7	1.924	11.1	1.888	9.4
130	[60]		1.89		-		-	1.713	-10.3	1.764	-7.1	1.739	-8.7
287	[92]		1.7		-		-	1.746	2.6	1.608	-5.7	1.677	-1.4

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
288	[92]		1.62		-		-	1.746	7.2	1.608	-0.7	1.677	3.4
289	[92]		1.65		-		-	1.746	5.5	1.608	-2.6	1.677	1.6
290	[92]		1.66		-		-	1.746	4.9	1.608	-3.2	1.677	1
385	[99]		1.7		-		-	1.746	2.6	1.608	-5.7	1.677	-1.4
482	[110]		1.81		-		-	1.785	-1.4	1.851	2.2	1.818	0.4

2.4.16 The densities of peroxides

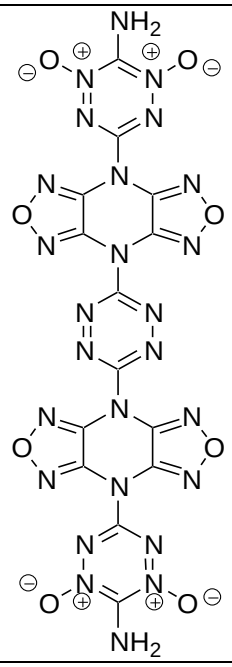
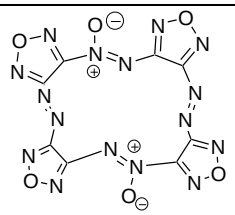
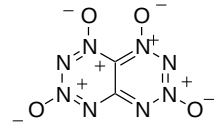
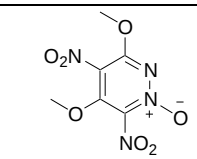
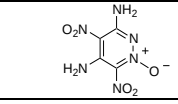
Table 88. Table summarizing the structural formulae, empirical formulae and the densities of the peroxides

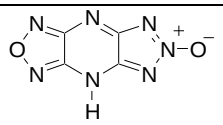
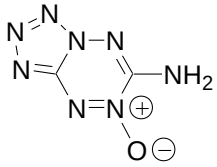
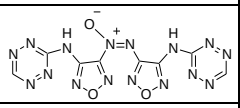
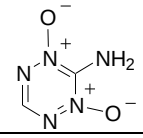
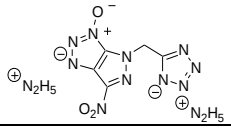
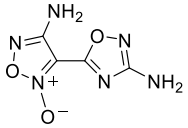
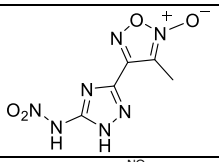
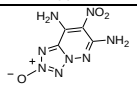
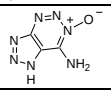
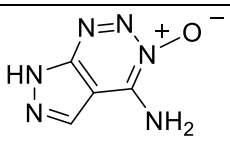
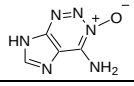
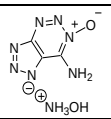
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
49	[42]		1.25		-	1.124	11.2	-	-
67	[48]		1.61	1.566	2.8	1.547	4.1	1.556	3.5
68	[48]		1.608	1.566	2.7	1.547	3.9	1.556	3.3
69	[48]		1.718	1.701	1	1.686	1.9	1.694	1.4
70	[48]		1.67	1.566	6.6	1.547	8	1.556	7.3
71	[48]		1.7	1.642	3.5	1.622	4.8	1.632	4.2
72	[48]		1.69	1.642	2.9	1.622	4.2	1.632	3.6
73	[48]		1.46	1.545	5.5	1.532	4.7	1.538	5.1

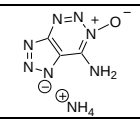
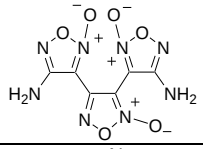
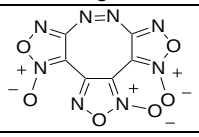
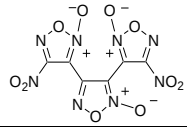
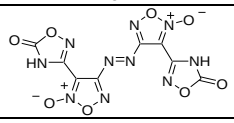
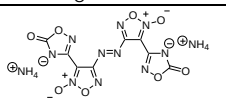
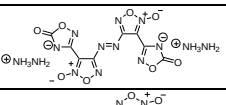
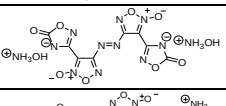
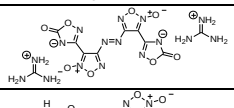
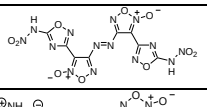
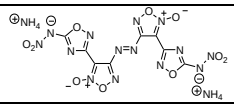
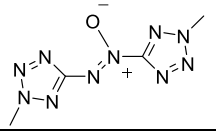
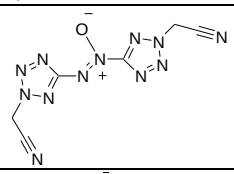
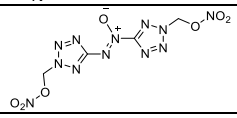
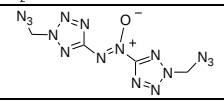
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
74	[48]		1.51	1.646	8.3	1.631	7.4	1.639	7.9
75	[48]		1.45	1.545	6.1	1.532	5.4	1.538	5.7

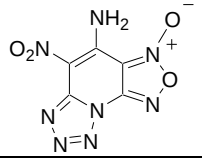
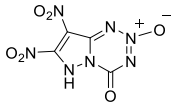
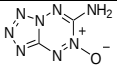
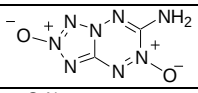
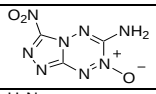
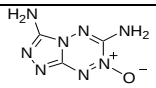
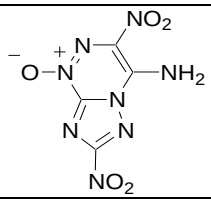
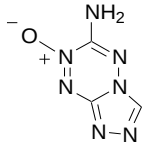
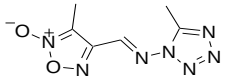
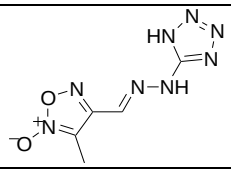
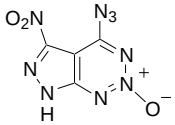
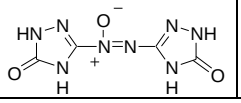
2.4.17 The densities of nitroxides

Table 89. Table summarizing the structural formulae, empirical formulae and the densities of the nitroxides.

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
42	[38]		1.903		-		-		-	1.893	-0.5	-	-
43	[38] [39]		1.761		-		-		-	1.786	1.4	-	-
57	[46]		1.96		-		-		-	2.063	5	-	-
127	[59]		1.59		-		-	1.764	9.9	1.659	4.2	1.712	7.1
128	[59]		1.84		-		-	2.116	13	1.841	0.1	1.978	7

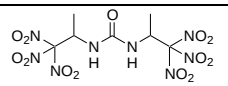
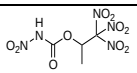
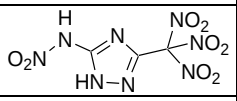
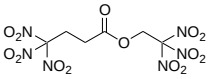
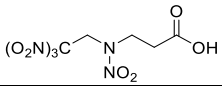
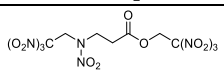
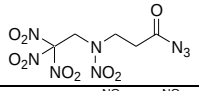
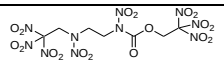
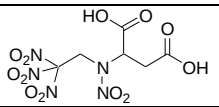
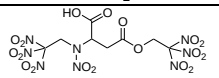
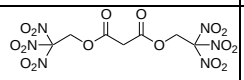
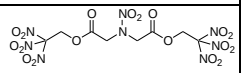
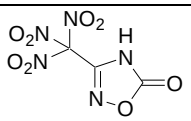
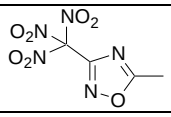
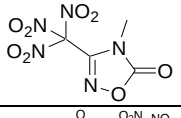
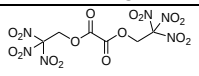
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137	[63]		1.85		-		-		-	1.87	1.1	-	-
149	[40]		1.874		-		-		-	1.839	-1.9	-	-
163	[67]		1.75		-		-		-	1.657	-5.6	-	-
164	[67]		1.77		-		-		-	1.786	0.9	-	-
178	[69]		1.69	1.604	-5.4		-		-	1.658	-1.9	1.631	-3.6
192	[71]		1.788		-		-		-	1.819	1.7	-	-
201	[73]		1.741		-		-	1.932	9.9	1.75	0.5	1.841	5.4
224	[78]		1.886		-		-	2.033	7.2	1.856	-1.6	1.945	3
225	[79]		1.815		-		-		-	1.789	-1.5	-	-
226	[79]		1.772		-		-		-	1.721	-3	-	-
227	[79]		1.743		-		-		-	1.721	-1.3	-	-
228	[79]		1.772	1.643	-7.9		-		-	1.677	-5.7	-	-
229	[79]		1.800	1.584	-13.6		-		-	1.515	-18.8	1.55	-16.1

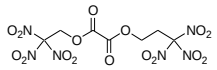
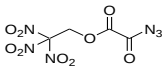
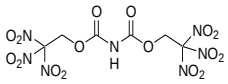
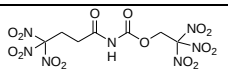
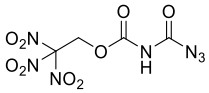
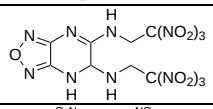
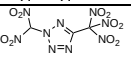
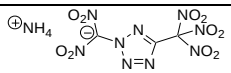
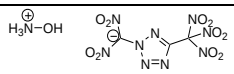
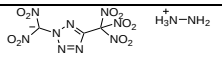
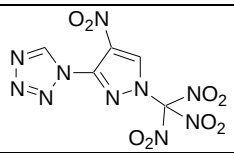
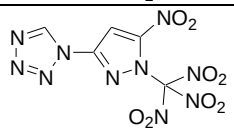
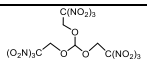
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
230	[79]		1.740	1.595	-9.1		-		-	1.635	-6.4	1.615	-7.7
242	[83]		1.787		-		-		-	1.953	8.5	-	-
243	[83]		1.895		-		-		-	2.017	6	2.076	8.7
244	[83]		1.914		-		-		-	2.062	7.2	-	-
245	[84]		1.90		-		-		-	1.925	1.3	-	-
246	[84]		1.65	1.743	5.3		-		-	1.762	6.4	1.752	5.8
247	[84]		1.71	1.723	0.8		-		-	1.768	3.3	1.746	2.1
248	[84]		1.72	1.773	3		-		-	1.794	4.1	1.784	3.6
249	[84]		1.65	1.695	2.7		-		-	1.744	5.4	1.72	4.1
250	[84]		1.92		-		-	2.112	9.1	2.013	4.6	2.062	6.9
251	[84]		1.66	1.782	6.8		-		-	1.778	6.6	1.78	6.7
297	[93]		1.57		-		-		-	1.534	-2.3	-	-
298	[93]		1.58		-		-		-	1.554	-1.7	-	-
299	[93]		1.68		-		-	1.937	13.3	1.756	4.3	1.847	9
300	[93]		1.59		-	1.4	-13.6		-	1.597	0.4	1.498	-6.1

		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
335	[96]		1.92		-		-	1.939	1	1.944	1.2	2.03	5.4
345	[96]		2.02		-		-	2.095	3.6	2.024	0.2	2.059	1.9
348	[96]		1.87		-		-		-	1.839	-1.7	-	-
349	[96]		1.93		-		-		-	1.955	1.3	-	-
353	[96]		1.86		-		-	2.327	20.1	1.898	2	2.112	11.9
354	[96]		1.82		-		-		-	1.794	-1.4	1.937	6
362	[96]		1.90 (predicted)		-		-	1.937	1.9	2.095	9.3	2.016	5.8
369	[97]		1.70		-		-		-	1.768	3.8	1.937	12.2
394	[99]		1.531		-		-		-	1.49	-2.8	-	-
395	[99]		1.62		-		-		-	1.595	-1.6	-	-
459	[104]		1.86		-	1.441	-29.1	2.206	15.7	1.828	-1.8	1.821	-2.1
464	[24]		1.91		-		-		-	1.868	-2.2	1.901	-0.5

2.4.18 The densities of molecules with -C(NO$_2$)$_3$ groups present

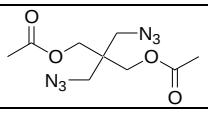
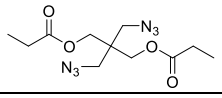
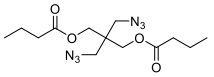
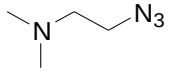
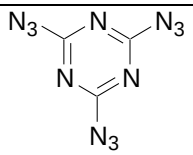
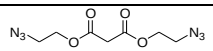
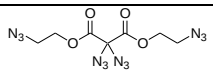
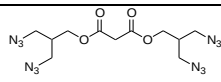
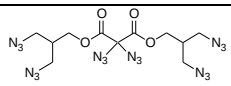
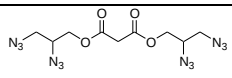
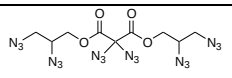
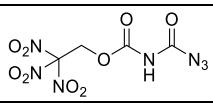
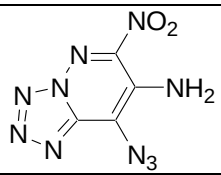
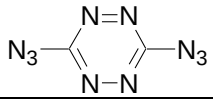
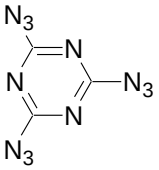
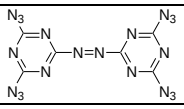
Table 90. Table summarizing the structural formulae, empirical formulae and the densities of the molecules with -C(NO$_2$)$_3$ groups present.

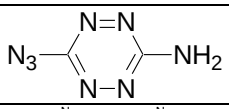
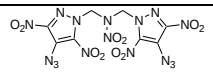
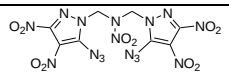
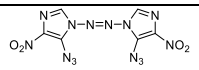
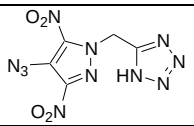
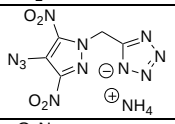
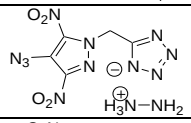
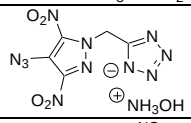
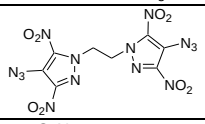
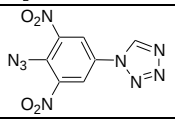
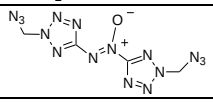
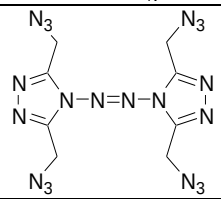
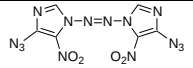
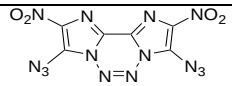
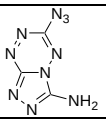
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
1	[22]		1.82		-		-	1.697	-7.2	1.712	-6.3	1.704	-6.8
2	[22]		1.58		-		-	1.747	9.6	1.792	11.8	1.77	10.7
9	[28]		1.91		-		-	2.064	7.5	1.957	2.4	2.01	5
45	[38]		1.78		-		-	1.748	-1.8	1.78	0	1.764	-0.9
78	[50]		1.72		-		-	1.778	3.3	1.711	-0.5	1.744	1.4
79	[50]		1.73		-		-	1.747	1	1.773	2.4	1.76	1.7
80	[50]		1.7		-	1.685	-0.9		-	1.651	-3	1.687	-0.8
81	[50]		1.89		-		-	1.786	-5.8	1.816	-4.1	1.762	-7.3
82	[50]		1.66		-		-	1.787	7.1	1.738	4.5	1.762	5.8
83	[50]		1.65		-		-	1.847	10.7	1.787	7.7	1.817	9.2
94	[53]		1.76		-		-	1.748	-0.7	1.789	1.6	1.768	0.5
95	[53]		1.78		-		-	1.748	-1.8	1.781	0.1	1.764	-0.9
96	[54]		1.95		-		-	1.92	-1.6	1.972	1.1	1.946	-0.2
97	[54]		1.84		-		-	1.834	-0.3	1.784	-3.1	1.809	-1.7
98	[54]		1.8		-		-	1.829	1.6	1.833	1.8	1.831	1.7
113	[57]		1.84		-		-	1.797	-2.4	1.851	0.6	1.824	-0.9

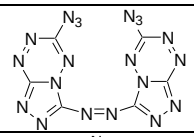
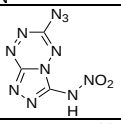
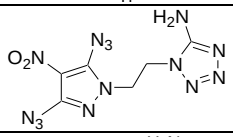
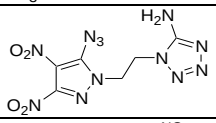
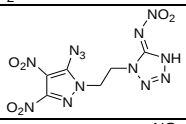
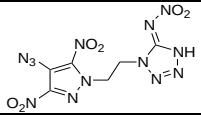
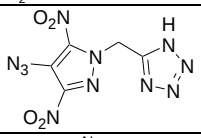
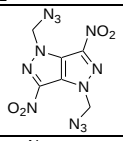
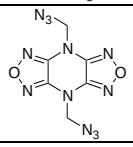
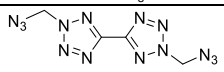
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
114	[57]		1.73		-		-	1.748	1	1.789	3.3	1.769	2.2
115	[57]		1.75		-	1.858	5.8		-	1.782	1.8	1.82	3.8
116	[57]		1.92		-		-	1.795	-7	1.851	-3.7	1.823	-5.3
117	[57]		1.63		-		-	1.748	6.8	1.776	8.2	1.762	7.5
118	[57]		1.5		-	1.878	20.1		-	1.785	16	1.831	18.1
138	[63]		1.8		-		-	1.83	1.6	1.806	0.3	1.818	1
254	[85]		1.88		-		-	1.997	5.9	1.95	3.6	1.974	4.8
255	[85]		1.79	1.884	5		-		-	1.896	5.6	1.89	5.3
256	[85]		1.92	1.896	-1.3		-		-	1.912	-0.4	1.896	-1.3
257	[85]		1.81	1.866	3		-		-	1.904	4.9	1.895	4.5
379	[99]		1.79		-		-	1.991	10.1	1.886	5.1	1.938	7.6
380	[99]		1.76		-		-	1.991	11.6	1.886	6.7	1.938	9.2
482	[110]		1.81		-		-	1.785	-1.4	1.851	2.2	1.818	0.4

2.4.19 The densities of azides

Table 91. Table summarizing the structural formulae, empirical formulae and the densities of the azides.

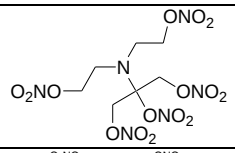
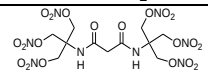
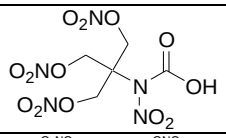
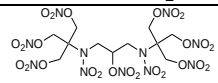
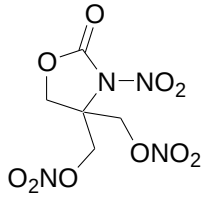
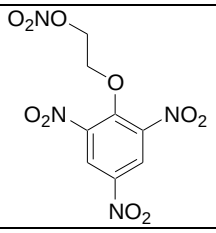
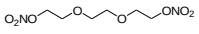
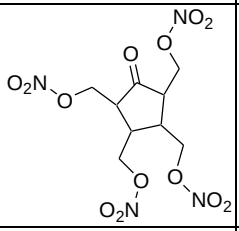
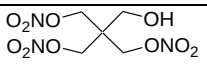
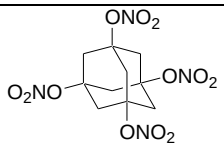
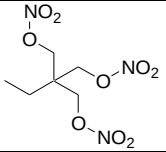
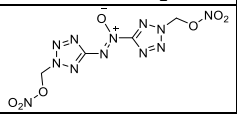
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
26	[35]		1.21		-	1.226	1.3	1.443	16.1	1.28	5.5		-
27	[35]		1.16		-	1.171	0.9	1,335	99.9	1.23	5.7	1.316	11.9
28	[35]		1.09		-	1.123	2.9	1.245	12.4	1.192	8.6	1.251	12.9
46	[24]		0.933		-	1.14	18.2		-	1.109	15.9	1.124	17
47	[24] [40]		1.73		-		-		-	1.563	10.7	-	-
84	[51]		1.38		-	1.292	-6.8		-	1.348	2.4	1.32	-4.5
85	[51]		1.49		-	1.41	-5.7		-	1.437	3.7	1.423	-4.7
86	[51]		1.38		-	1.323	-4.3		-	1.318	4.7	1.321	-4.5
87	[51]		1.51		-	1.413	-6.9		-	1.382	9.3	1.397	-8.1
88	[51]		1.3		-	1.361	4.5		-	1.37	5.1	1.365	4.8
89	[51]		1.5		-	1.446	-3.7		-	1.433	4.7	1.44	-4.2
118	[57]		1.5		-	1.878	20.1		-	1.785	16	1.831	18.1
131	[61]		1.82		-	1.39	-30.9	2.107	13.6	1.749	4.1	1.57	-15.9
145	[40]		1.62		-	1.28	-26.6		-	1.566	3.4	1.423	-13.8
146	[40]		1.74		-		-		-	1.563	11.3	-	-
147	[40]		1.67		-		-		-	1.481	12.8	-	-

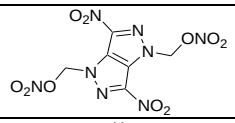
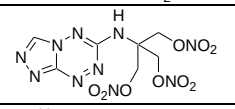
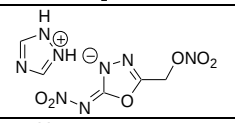
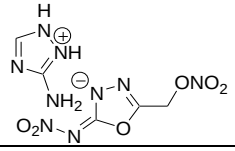
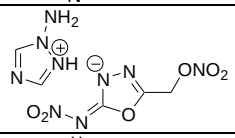
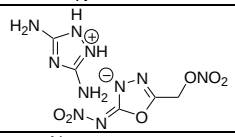
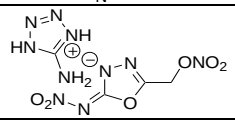
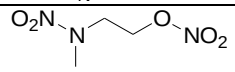
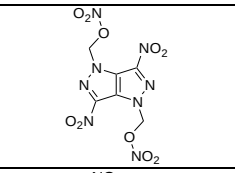
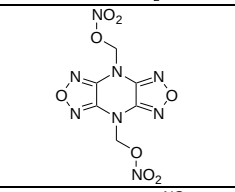
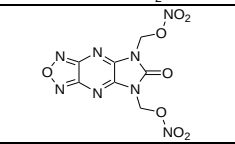
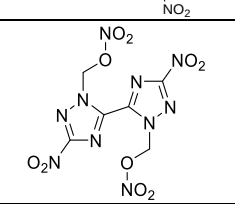
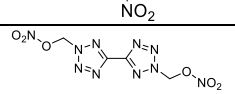
		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] azides	Deviation azides [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
148	[40]		1.68		-		-		-	1.554	8.1	-	-
154	[65]		1.83		-	1.635	-11.9	1.996	8.3	1.798	1.8	1.716	-6.6
155	[65]		1.83		-	1.635	-11.9	1.996	8.3	1.798	1.8	1.716	-6.6
172	[68]		1.77		-	1.47	-20.4		-	1.712	3.4	1.591	-11.3
179	[69]		1.812		-	1.473	-23	2.031	10.8	1.741	4.1	1.607	-12.8
180	[69]		1.64	1.725	4.9		-		-	1.657	1	1.691	3
181	[69]		1.72	1.712	-0.5		-		-	1.665	3.3	1.688	-1.9
182	[69]		1.76	1.746	-0.8		-		-	1.659	6.1	1.703	-3.3
188	[70]		1.76		-	1.543	-14.1	1.983	11.2	1.75	0.6	1.647	-6.9
296	[92]		1.7		-	1.361	-24.9	1.964	13.4	1.671	1.7	1.665	-2.1
300	[93]		1.59		-	1.4	-13.6		-	1.597	0.4	1.498	-6.1
317	[95]		1.53		-	1.36	-12.5		-	1.462	4.7	1.411	-8.4
326	[95]		1.77		-	1.47	-20.4	2.107	16	1.712	3.4	1.591	-11.3
329	[96]		1.89		-	1.47	-28.6	2.171	12.9	1.835	3	1.652	-14.4
355	[96]		1.74		-	1.27	-37		-	1.674	3.9	1.472	-18.2

		Compound	ρ_0 [g/cm^3] from reference	ρ_0 [g/cm^3] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm^3] azides	Deviation azides [%]	ρ_0 [g/cm^3] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm^3] Holden	Deviation Holden [%]	ρ_0 [g/cm^3] Rose Hybrid	Deviation RoseHybrdi [%]
356	[96]		1.77		-	1.37	-29.2		-	1.674	5.7	1.522	-16.3
357	[96]		1.85		-	1.456	-27.1	2.196	15.8	1.782	3.8	1.619	-14.3
413	[99]		1.63		-	1.384	-17.8	2.005	18.7	1.608	1.4	1.496	-9
417	[99]		1.71		-	1.443	-18.5	1.938	11.8	1.674	2.2	1.558	-9.8
418	[99]		1.81		-	1.544	-17.2	1.971	8.2	1.453	24.6	1.498	-20.8
419	[99]		1.78		-	1.544	-15.3	1.971	9.7	1.724	3.2	1.634	-8.9
422	[99]		1.81		-	1.473	-22.9	2.031	10.9	1.741	4	1.607	-12.6
469	[105]		1.71		-	1.443	-18.5	2.006	14.8	1.699	0.6	1.571	-8.8
470	[105]		1.68		-	1.357	-23.8		-	1.652	1.7	1.504	-11.7
478	[107]		1.62		-	1.311	-23.6	2.147	24.5	1.551	4.4	1.67	3

2.4.20 The densities of nitrate esters

Table 92. Table summarizing the structural formulae, empirical formulae and the densities of the nitrate esters.

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
31	[36]		1.69		-	1.602	-5.5	1.632	-3.6	1.617	-4.5
32	[36]		1.67		-	1.606	-4	1.632	-2.3	1.619	-3.2
33	[36]		1.73		-	1.788	3.2	1.775	2.5	1.781	2.9
34	[36]		1.8		-	1.71	-5.3	1.726	-4.3	1.718	-4.8
35	[36]		1.84		-	1.775	-3.7	1.78	-3.4	1.777	-3.5
41	[38]		1.723		-	1.684	-2.3	1.707	-0.9	1.696	-1.6
44	[38]		1.344		-	1.273	-5.6	1.452	7.4	1.362	1.3
56	[38]		1.55		-	1.486	-4.3	1.622	4.4	1.554	0.3
60	[38]		1.54		-	1.622	5.1	1.642	6.2	1.632	5.6
77	[49]		1.659		-	1.534	-8.1	1.705	2.7	1.619	-2.5
119	[26]		1.5		-	1.445	-3.8	1.527	1.8	1.529	1.9
299	[93]		1.68		-	1.937	13.3	1.756	4.3	1.847	9

		Compound	ρ_0 [g/cm³] from reference	ρ_0 [g/cm³] Keshavarz ionic	Deviation Keshavarz ionic [%]	ρ_0 [g/cm³] Keshavarz - other	Deviation Keshavarz other [%]	ρ_0 [g/cm³] Holden	Deviation Holden [%]	ρ_0 [g/cm³] Rose Hybrid	Deviation RoseHybrdi [%]
341	[96]		1.82		-	1.863	2.3	1.856	1.9	1.86	2.2
350	[96]		1.79		-	1.799	0.5	1.7	-5.3	1.749	-2.3
371	[98]		1.772	1.748	-1.4		-	1.721	-3	1.735	-2.1
372	[98]		1.78	1.733	-2.7		-	1.717	-3.7	1.725	-3.2
373	[98]		1.802	1.733	-4		-	1.707	-5.6	1.72	-4.8
374	[98]		1.814	1.719	-5.5		-	1.733	-4.7	1.726	-5.1
375	[98]		1.796	1.768	-1.6		-	1.709	-5.1	1.739	-3.3
460	[26]		1.53		-	1.364	-12.2	1.547	1.1	1.456	-5.1
465	[105]		1.82		-	1.863	2.3	1.884	3.4	1.873	2.8
466	[105]		1.84		-	1.874	1.8	1.853	0.7	1.864	1.3
467	[105]		1.79		-	1.87	4.3	1.84	2.7	1.855	3.5
468	[105]		1.83		-	1.908	4.1	1.839	0.5	1.873	2.3
479	[107]		1.69		-	1.955	13.6	1.764	4.2	1.86	9.1

2.4.21 Summary of the detonation densities

Table 93. Table summarizing the Mean absoulute percent deviation (MAPE); R^2, and Pearson value of all in RoseBoom Implemented values to predict the density.

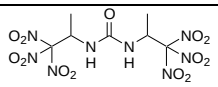
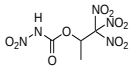
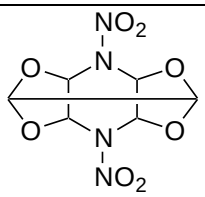
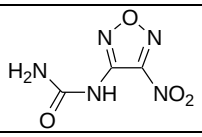
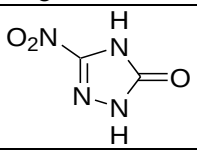
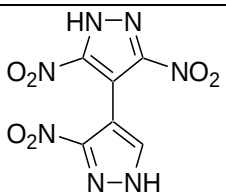
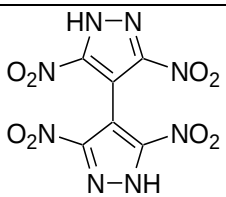
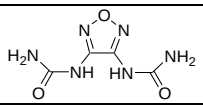
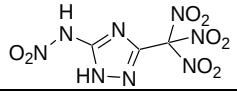
Compound class	MAPE Keshavarz ionic	Pearson Keshavarz ionic	R^2 Keshavarz ionic	MAPE azides	Pearson azides	R^2 azides	MAPE Keshavarz general	Pearson Keshavarz general	R^2 Keshavarz general	MAPE Holden	Pearson Holden	R^2 Holden	MAPE RoseHybrid	Pearson RoseHybrid	R^2 RoseHybrid
All Molecules	4.8	0.58	0.34	16.5	0.58	0.34	7.1	0.69	0.48	4	0.82	0.67	5	0.73	0.53
Neutral molecules	-	-	-	16.03	0.59	0.35	7.3	0.69	0.48	3.7	0.85	0.72	5	0.78	0.61
ionic	4.8	0.58	0.34	-	-	-	-	-	-	5.11	0.5	0.25	5.1	0.54	0.29
Zwitterionic	1.2	0.99	0.98	-	-	-	12.2	0.99	0.98	3.2	0.99	0.98	3.6	0.99	0.98
aromatic	4.8	0.53	0.28	21.4	0.61	0.37	7.5	0.54	0.29	3.9	0.75	0.56	5.1	0.61	0.37
Non aromatic	3.4	0.96	0.92	6.3	0.85	0.72	5.1	0.87	0.76	4.8	0.91	0.83	4.4	0.91	0.83
Cyclic nitramines	-	-	-			0	3.7	0.44	0.19	4.22	0.56	0.31	4.2	0.39	0.15
Acyclic nitamines	5.5	0.12	0.01	14.05	-0.57	0.32	7.4	0.46	0.21	4.15	0.52	0.27	5.3	0.4	0.16
Molecules with Nitro groups	3.7	0.54	0.29	15.44	-0.28	0.08	5.1	0.66	0.44	3.8	0.74	0.55	4.1	0.67	0.45
Molecules without Nitro groups	5.6	0.37	0.14	12.4	0.69	0.48	15.74	0.77	0.59	5.13	0.86	0.74	7.6	0.78	0.61
Diazoles	3.6	0.46	0.21	18.8	0.5	0.25	7.7	0.44	0.19	3	0.74	0.55	5	0.55	0.3
Triazoles	5.6	0.51	0.26	26.5	0.36	0.13	9.1	0.39	0.15	4.4	0.64	0.41	5.7	0.51	0.26
Tetrazoles	4.8	0.6	0.36	20.9	0.66	0.44	10.3	0.52	0.27	3.5	0.83	0.69	5.7	0.5	0.25
Oxazole	4.1	0.24	0.06	-	-	-	5.4	0.27	0.07	4.1	0.57	0.32	4.4	0.54	0.29
Ethers and Esters	-	-	-	6.2	0.94	0.88	8.4	-0.39	0.15	4.9	0.9	0.81	4.6	0.88	0.77
Peroxides	-	-	-	-	-	-	4.4	0.61	0.37	5.6	0.83	0.69	4.7	0.59	0.35
Nitroxides	6.1	-0.62	0.38	-	-	-	9.5	0.56	0.31	3.4	0.84	0.71	6.2	0.75	0.56
Molecules with $-C(NO_2)_3$ Groups	3.1	0.71	0.5	8.9	-0.41	0.17	4.7	0.42	0.18	4	0.59	0.35	4.4	0.45	0.2
Azides	2.1	0.45	0.2	16.6	0.62	0.38	17.8	-0.51	0.26	5.4	0.9	0.81	9.7	0.79	0.62

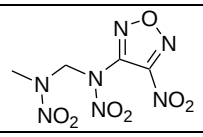
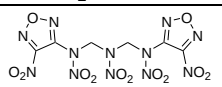
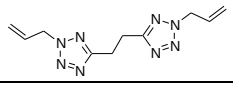
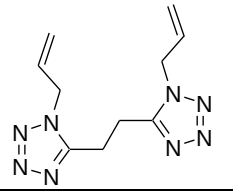
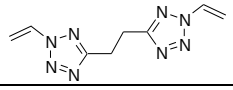
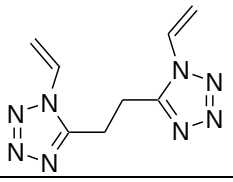
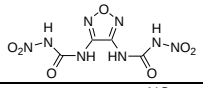
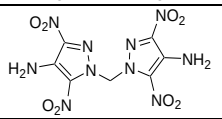
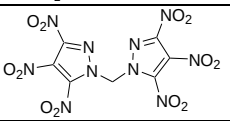
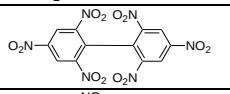
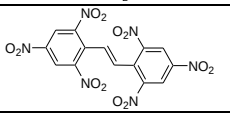
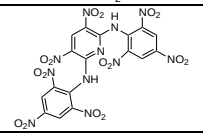
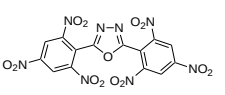
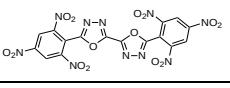
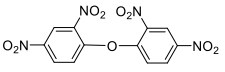
Nitrate esters	3	-0.39	0.15	-	-	-	5.3	0.84	0.71	3.4	0.86	0.74	3.5	0.85	0.72

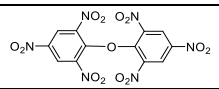
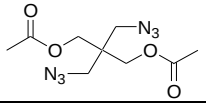
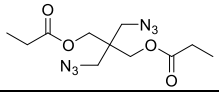
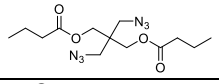
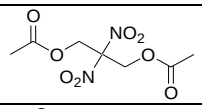
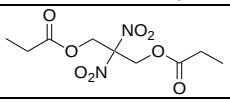
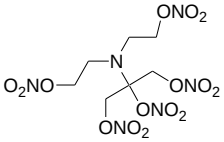
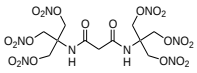
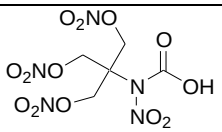
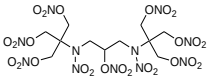
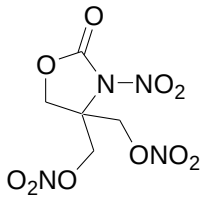
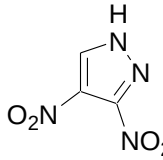
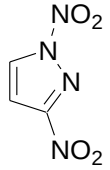
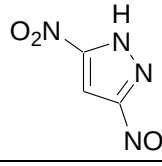
2.5 Comparison of the heat of formation from RoseBoom2.1 to the literature values

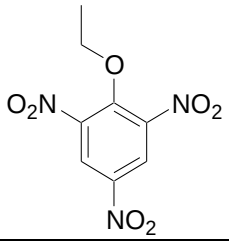
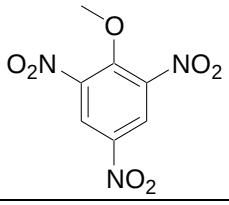
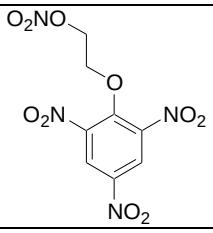
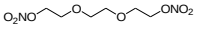
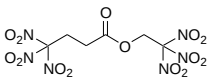
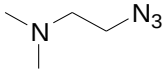
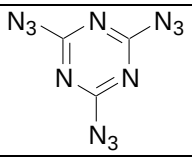
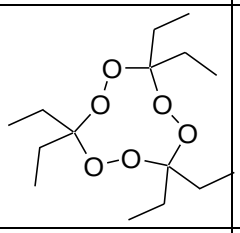
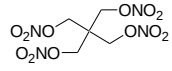
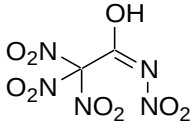
2.5.1 The heat of formation of neutral compounds

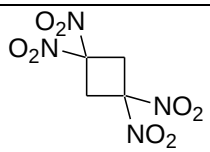
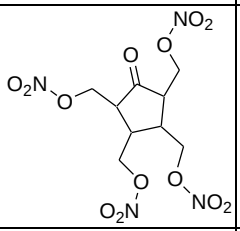
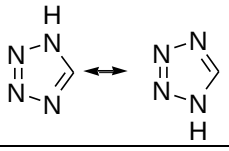
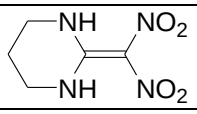
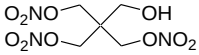
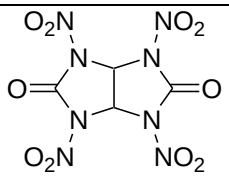
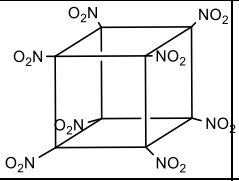
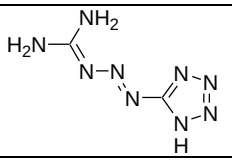
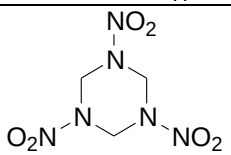
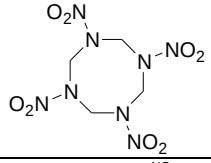
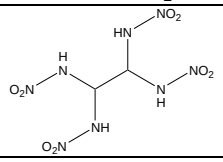
Table 94. Table summarizing the structural formulae, empirical formulae and the heat of formation of the neutral compounds.

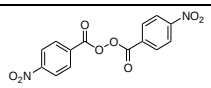
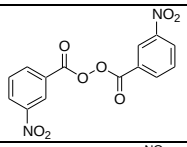
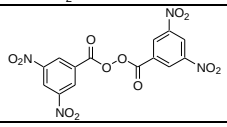
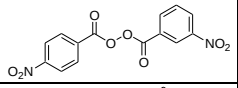
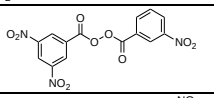
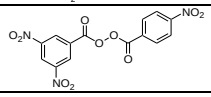
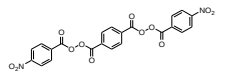
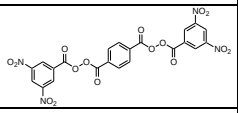
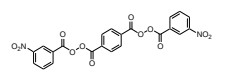
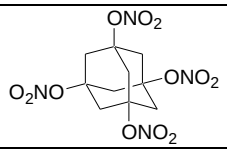
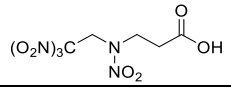
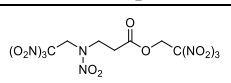
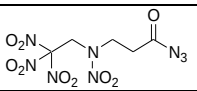
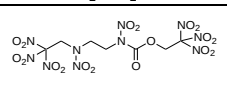
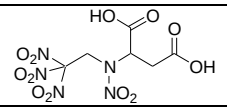
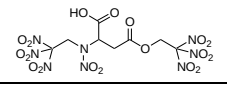
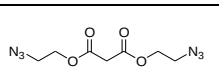
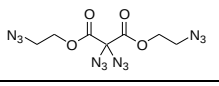
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
1	[22]		-23.2	27.1	-379.3	12.3	-354.36	12.64	-379.3	-366.8	0.2
2	[22]		-2.8	24.7	-332.1	35.9	-431.07	-63.07	-332.1	-381.6	-13.6
3	[23] [24]		-42.7	21.4	-35.5	505.5	-372.31	168.69	-35.5	-203.9	337.1
4	[25]		-32.4	40.5	-134.6	197.6	49.68	-13.32	-134.6	-42.5	-105.5
5	[23] [26]		-24.6	43.1	-163.7	66.7	48.9	145.9	-163.7	-57.4	39.6
6	[27]		-44.6	36.4	141.1	83.8	277.16	52.26	141.1	209.1	-15.8
7	[27]		-25.5	35.7	132.6	95.2	254.93	27.13	132.6	193.8	-34
8	[25]		-68.8	45.2	-261.1	99.1	30.18	192.18	-261.1	-115.5	46.5
9	[28]		5.8	40.3	278.6	9.6	173.26	-95.74	278.6	225.9	-43.1

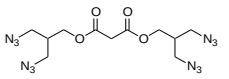
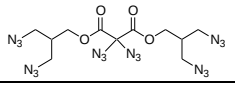
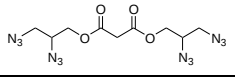
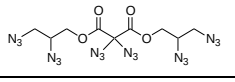
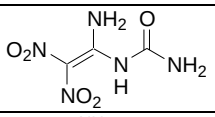
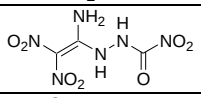
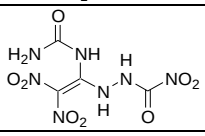
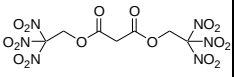
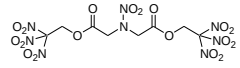
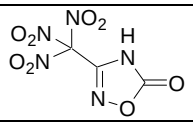
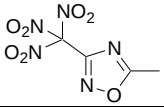
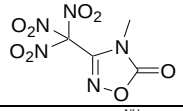
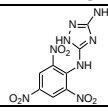
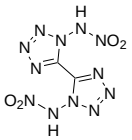
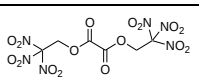
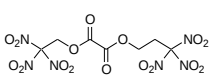
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
10	[29]		-21.3	37.3	172.9	92.1	83.91	-181.09	172.9	128.4	-136.6
11	[29]		-7.3	38.5	391.8	211.2	195.66	-407.34	391.8	293.7	-309.3
12	[30]		-175,4	45.5	602.3	2.7	661.55	56.55	602.3	631.9	26.9
13	[30]		-175.4	45.5	602.3	19.7	661.55	39.55	602.3	631.9	9.9
14	[30]		-154.0	51.4	651.5	16.5	702.83	67.83	651.5	677.2	42.2
15	[30]		-154.0	51.4	651.5	8.5	702.83	59.83	651.5	677.2	34.2
16	[25]		-17.4	34.1	-183.9	161.9	116.31	138.31	-183.9	-33.8	-11.8
17	[31]		-40.2	39.1	224	19	320.11	115.11	224	272.1	67.1
18	[31]		-11.5	33.5	186.3	192.7	231.01	-147.99	186.3	208.7	-170.3
19	[32] [26]		-52.8	19.8	100.3	39.2	48.67	-12.43	100.3	74.5	13.4
20	[32]		-67.5	18.7	200.8	122.6	86.64	8.44	200.8	143.7	65.5
21	[32]		-55.4	24.8	208.3	164.6	265.8	222.1	208.3	237.1	193.4
22	[32] [33]		-55.3	22.8	232.1	34.45	114.41	-152.14	232.1	173.3	-93.25
23	[32]		-57.1	25.0	409.9	212.3	180.15	-17.45	409.9	295	97.4
24	[34]		-82.2	16.0	55.1	223.2	-39.09	129.01	55.1	8	176.1

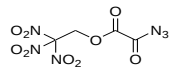
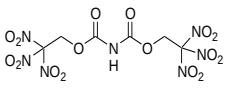
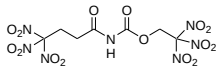
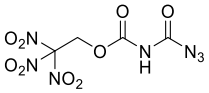
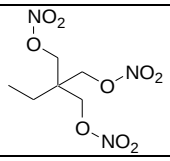
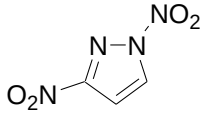
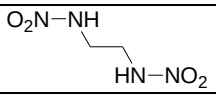
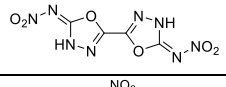
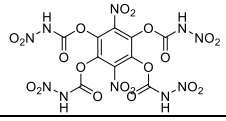
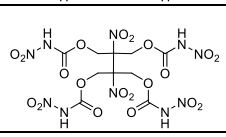
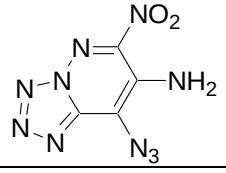
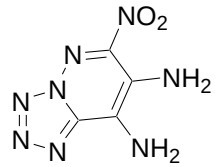
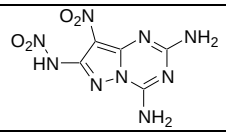
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
25	[34]		-47.3	19.1	-69	63.9	-83.55	49.35	-69	-76.3	56.6
26	[35]		-124.3	31.1	-65.3	176.7	-108.82	133.18	-65.3	-87.1	154.9
27	[35]		-144.8	28.2	-114.5	181.5	-150.1	145.9	-114.5	-132.3	163.7
28	[35]		-161.8	25.8	-163.6	185.4	-191.38	157.62	-163.6	-177.5	171.5
29	[35]		-70.3	11.2	-872	-810.8	61.2	187.34	810.8	-747.7	124.3
30	[35]		-97.8	10.1	-859.9	66.1	-725.94	200.06	-859.9	-792.9	133.1
31	[36]		-29.5	20.0	-543.4	12.8	-843.93	-313.33	-543.4	-693.7	-163.1
32	[36]		-27.8	19.3	-1024.8	19.6	-1095.99	-51.59	-1024.8	-1060.4	-16
33	[36]		-15.6	20.3	-683.3	68.5	-869.55	-254.75	-683.3	-776.4	-161.6
34	[36]		-12.5	21.9	-695.5	57.7	-1180.47	-542.67	-695.5	-938	-300.2
35	[36]		-17.0	19.9	-318.5	433.9	-314.69	437.71	-318.5	-316.6	435.8
36	[37]		-30.4	35.4	29.3	95	117.27	-7.03	29.3	73.3	-51
37	[37]		-30.4	35.4	106	83.1	137.86	-51.24	106	121.9	-67.2
38	[37]		-30.4	35.4	29.3	43.9	117.27	44.07	29.3	73.3	0.1

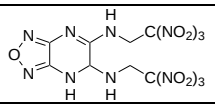
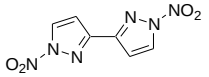
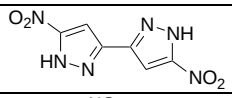
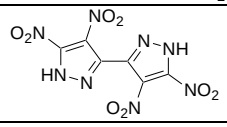
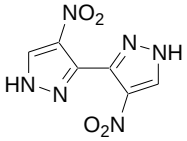
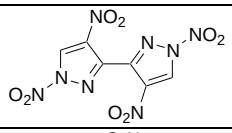
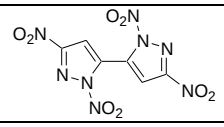
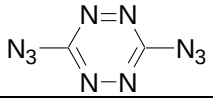
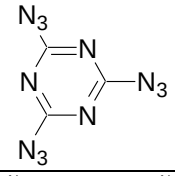
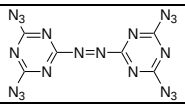
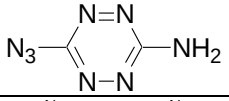
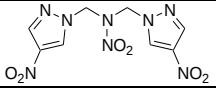
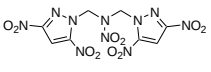
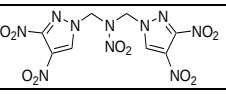
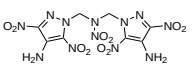
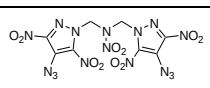
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
39	[26]		-77.8	16.3	-222.2	67.7	-170.83	-16.33	-222.2	-196.5	-42
40	[38]		-62.5	17.3	-197.6	10.4	-150.19	37.01	-197.6	-173.9	13.3
41	[38]		-45.3	17.6	-277.3	0.1	-313.81	-36.41	-277.3	-295.6	-18.2
44	[38]		-66.6	11.7	-605.8	51.1	-717.57	-60.67	-605.8	-661.7	-4.8
45	[38]		-4.1	21.8	-516.8	95.1	-482.52	-60.82	-516.8	-499.7	-78
46	[24]		-182.2	49.1	279.1	2.1	239.44	-37.56	279.1	259.3	-17.7
47	[24] [40]		-47.0	82.3	1412.8	359.8	1100.11	47.11	1412.8	1256.5	203.5
49	[42]		-198.3	0.0	-744.8	161	-1104.05	-520.25	-744.8	-924.4	-340.6
51	[44]		-10.1	17.7	-497.1	41.38	-727.2	-188.72	-497.1	-612.2	-73.72
54	[38]		30.1	29.3	-78.2	56.5	-216.2	-81.5	-78.2	-147.2	-12.5

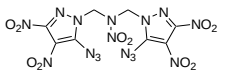
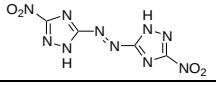
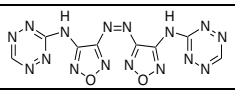
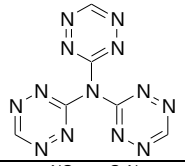
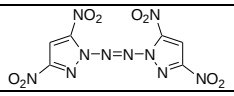
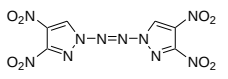
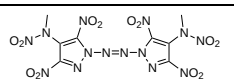
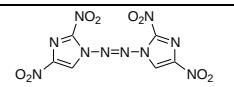
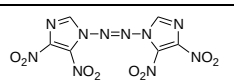
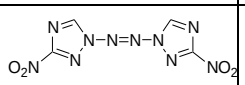
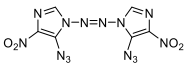
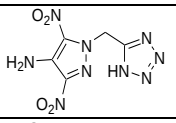
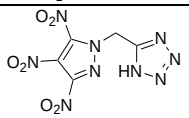
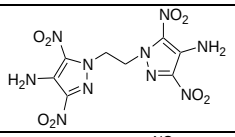
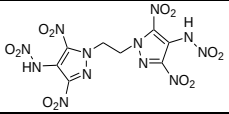
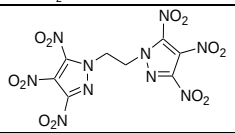
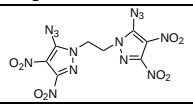
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
55	[38]		-13.6	23.7	124.6	208.6	-92.15	-8.15	124.6	16.2	100.2
56	[38]		-45.8	-8.3	-698.4	22.2	-892.82	-216.62	-698.4	-795.6	-119.4
58	[38]		-68.5	80.0	303.2	66.13	268.59	31.52	303.2	285.9	48.83
59	[47]		-85.0	29.8	-80.6	142.4	159.51	97.71	-80.6	39.5	-22.3
60	[38]		-26.6	15.5	-629.2	68.5	-736.45	-175.75	-629.2	-682.8	-122.1
61	[38]		5.0	34.8	-76.1	117.9	-30.47	-72.27	-76.1	-53.3	-95.1
62	[38]		0.0	24.1	407.3	6.5	585.82	172.02	407.3	496.6	82.8
63	[38]		-67.0	81.3	633.1	251.1	423.71	41.71	633.1	528.4	146.4
64	[26]		-21.6	37.8	40.2	46.1	77.92	-8.38	40.2	59.1	-27.2
65	[38]		-21.6	37.8	65.1	27.7	81.13	-11.67	65.1	73.1	-19.7
66	[38]		5.9	41.5		48.5		-48.5		0	-48.5

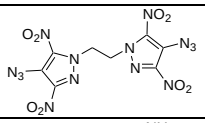
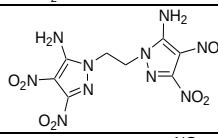
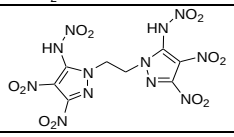
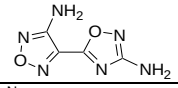
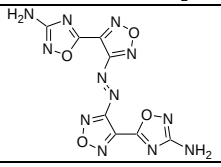
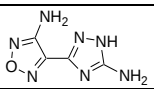
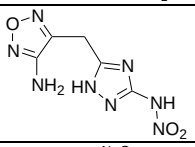
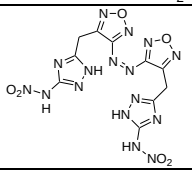
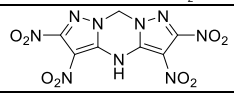
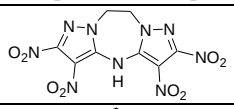
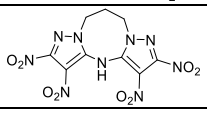
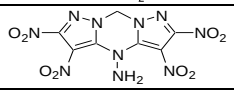
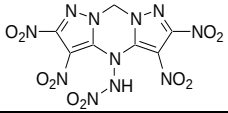
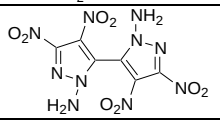
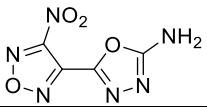
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
67	[48]		-115.6	8.4	-353.4	61.6	-370.27	44.73	-353.4	-361.8	53.2
68	[48]		-115.6	8.4	353.4	759.4	-370.27	35.73	353.4	-8.4	397.6
69	[48]		-72.0	13.3	-358	52	-414.73	-4.73	-358	-386.4	23.6
70	[48]		-115.6	8.4	-353.4	50.6	-370.27	33.73	-353.4	-361.8	42.2
71	[48]		-91.2	11.1	-361.8	43.2	-392.5	12.5	-361.8	-377.2	27.8
72	[48]		-91.2	11.1	-361.8	43.2	-392.5	12.5	-361.8	-377.2	27.8
73	[48]		-122.5	5.6	-604.1	156.9	-776.91	-15.91	-604.1	-690.5	70.5
74	[48]		-90.1	9.6	-620.9	131.1	-821.37	-69.37	-620.9	-721.1	30.9
75	[48]		-122.5	5.6	-604.1	147.9	-776.91	-24.91	-604.1	-690.5	61.5
77	[49]		-58.9	14.7	-446.9	134.1	-568.79	12.21	-446.9	-507.8	73.2
78	[50]		-18.8	23.6	-389.9	73.2	-472.89	-9.79	-389.9	-431.4	31.7
79	[50]		-7.0	24.4	-369.2	29.2	-446.39	-47.99	-369.2	-407.8	-9.4
80	[50]		-19.9	34.8	259.4	161.1	138.42	40.12	259.4	198.9	100.6
81	[50]		0.0	26.9	-224.6	68.2	-389.62	-96.82	-224.6	-307.1	-14.3
82	[50]		-16.4	20.5	-782	42.5	-840.91	-16.41	-782	-811.5	13
83	[50]		-6.3	22.2	-666.2	111.3	-814.41	-36.91	-666.2	-740.3	37.2
84	[51]		99.1	34.7	174	350	-58.79	117.21	174	57.6	233.6
85	[51]		-69.1	51.8	936.5	394.5	528.06	-13.94	936.5	732.3	190.3

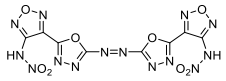
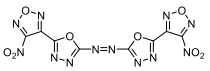
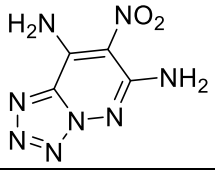
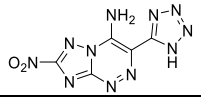
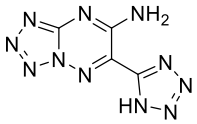
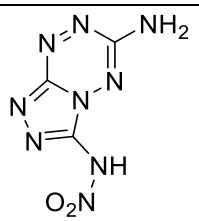
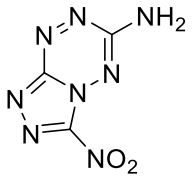
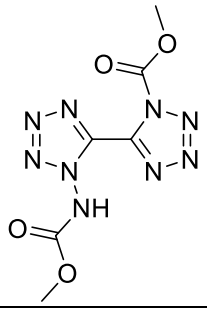
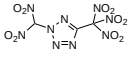
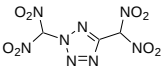
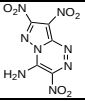
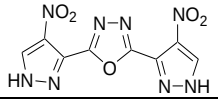
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
86	[51]		-109.4	44.2	838.2	372.2	443.69	-22.31	838.2	640.9	174.9
87	[51]		-86.5	54.5	1600.6	413.6	1030.54	-156.46	1600.6	1315.6	128.6
88	[51]		-90.8	47.7	887.3	447.3	484.97	44.97	887.3	686.1	246.1
89	[51]		-70.0	58.1	1649.8	489.8	1071.82	-88.18	1649.8	1360.8	200.8
90	[52]		-29.3	36.6	-162.3	114.7	-20.66	256.34	-162.3	-91.5	185.5
91	[52]		-6.8	35.6	-186.6	33.6	-11.74	141.26	-186.6	-99.2	53.8
92	[52]		-14.3	35.1	-331.9	23.1	-7.5	347.5	-331.9	-169.7	185.3
94	[53]		-3.7	19.5	-813.8	54.8	-736.45	22.55	-813.8	-775.1	-16.1
95	[53]		-6.3	22.2	-476	215	-700.32	-9.32	-476	-588.2	102.8
96	[54]		10.2	29.8	-257.9	399.9	-171.82	-313.82	-257.9	-214.9	-356.9
97	[54]		-17.2	30.0	78.1	35.1	-59.9	-102.9	78.1	9.1	-33.9
98	[54]		-9.6	28.1	-23.5	156.5	-183.34	-316.34	-23.5	-103.4	-236.4
105	[55]		-67.1	36.1	299	151.6	325.48	178.08	299	312.2	164.8
109	[56]		-6.2	65.1	810.1	122	661.23	-270.87	810.1	735.7	-196.4
113	[57]		7.7	20.2	-694.1	26.1	-715.81	-47.81	-694.1	-705	-37
114	[57]		-3.7	19.5	-940.6	235.4	-736.45	-31.25	-940.6	-838.5	-133.3

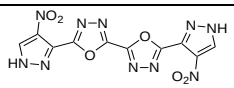
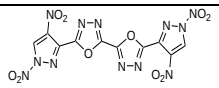
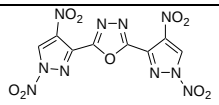
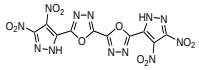
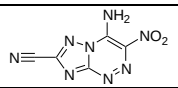
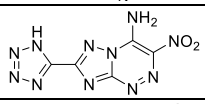
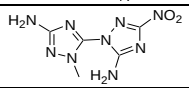
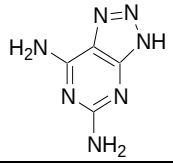
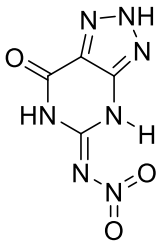
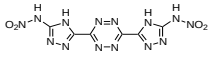
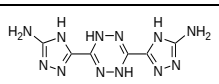
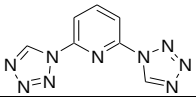
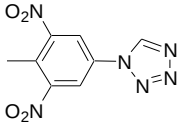
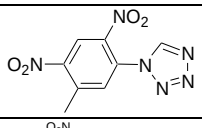
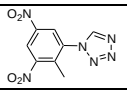
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
115	[57]		0.0	30.2	-287.4	116.9	-131	39.5	-287.4	-209.2	-38.7
116	[57]		5.6	22.7	-509.4	265.8	-662.34	112.86	-509.4	-585.9	189.3
117	[57]		-9.3	22.8	-693.8	48.6	-478.28	166.92	-693.8	-586	59.2
118	[57]		-2.7	33.5	-118.5	152.5	-77.53	193.47	-118.5	-98	173
119	[26]		-50.5	15.6	-451.2	28.8	-604.86	-124.86	-451.2	-528	-48
120	[37]		-30.4	35.4	106	83.1	137.86	-51.24	106	121.9	-67.2
121	[26]		-32.0	37.3	-60.9	42.9	0.81	104.61	-60.9	-30	73.8
123	[58]		-18.6	43.4	190.5	88.1	66.11	-212.49	190.5	128.3	-150.3
129	[60]		-5.5	24.0	-1125.2	149.8	-854.39	420.61	-1125.2	-989.8	285.2
130	[60]		-16.2	23.7	-1355.9	85.6	-1051.07	390.43	-1355.9	-1203.5	238
131	[61]		-50.4	63.1	998.6	187.4	726.07	-85.13	998.6	862.3	51.1
132	[61]		-65.3	57.1	472.9	26.4	462.06	15.56	472.9	467.5	21
136	[62]		-53.3	49.4	331	17	439.87	125.87	331	385.4	71.4

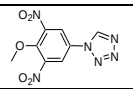
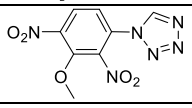
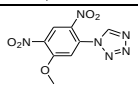
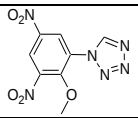
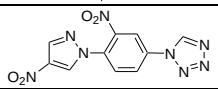
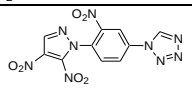
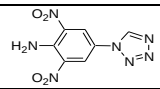
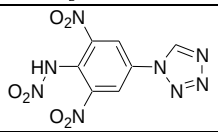
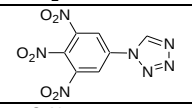
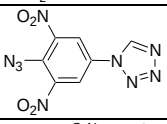
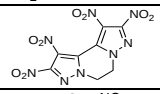
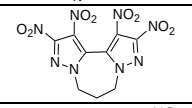
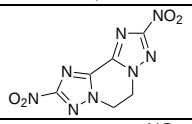
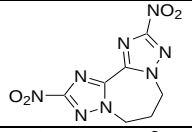
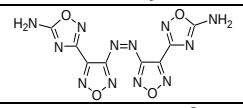
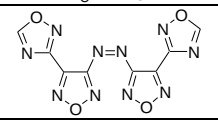
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
138	[63]		-23.3	35.0	138	28	162.52	52.52	138	150.3	40.3
139	[64]		-71.4	37.5	321.2	92.7	340.57	-73.33	321.2	330.9	-83
140	[64]		-71.4	37.5	149.5	79.6	299.39	70.29	149.5	224.4	-4.7
141	[64]		-25.5	35.7	132.6	89.9	254.93	212.23	132.6	193.8	151.1
142	[64]		-71.4	37.5	149.5	71.5	299.39	78.39	149.5	224.4	3.4
143	[64]		-25.5	35.7	304.4	102.7	296.11	-110.99	304.4	300.3	-106.8
144	[64]		-25.5	35.7	304.4	139.7	296.11	-147.99	304.4	300.3	-143.8
145	[40]		-39.0	85.4	1206.1	76.1	867.21	-262.79	1206.1	1036.7	-93.3
146	[40]		-47.0	82.3	1412.8	359.8	1100.11	47.11	1412.8	1256.5	203.5
147	[40]		-54.5	79.5	2022.5	148.5	1747.35	-423.65	2022.5	1884.9	-286.1
148	[40]		-57.9	81.1	882.8	196.6	603.2	-83	882.8	743	56.8
150	[65]		-71.8	35.9	367.6	9.6	362.89	-14.31	367.6	365.2	-12
151	[65]		-35.8	34.8	350.8	37.2	311.6	-76.4	350.8	331.2	-56.8
152	[65]		-35.8	34.8	350.8	47.2	311.6	-86.4	350.8	331.2	-66.8
153	[65]		-37.0	38.9	371.6	114.8	356.24	-130.16	371.6	363.9	-122.5
154	[65]		-26.4	46.3	1220.5	112.3	884.26	-223.94	1220.5	1052.4	-55.8

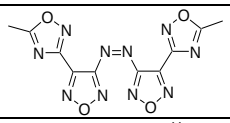
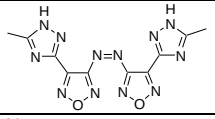
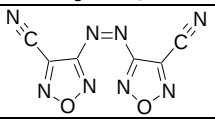
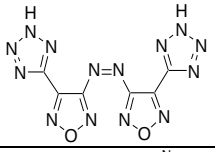
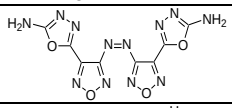
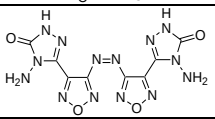
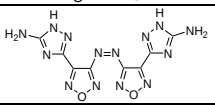
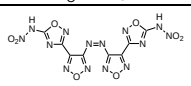
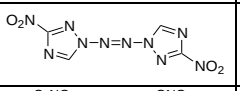
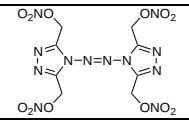
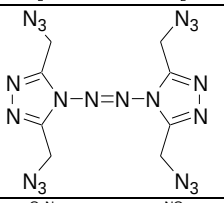
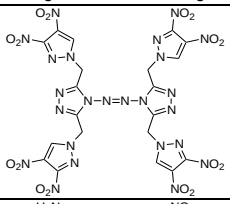
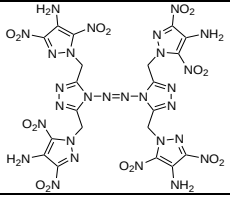
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
155	[65]		-26.4	46.3	1220.5	101.8	884.26	-234.44	1220.5	1052.4	-66.3
156	[66]		-31.5	55.1	580.1	8.4	453.47	-118.23	580.1	516.8	-54.9
162	[67]		-71.9	62.9	1283.9	370.4	895.13	-759.17	1283.9	1089.5	-564.8
165	[67]		-84.0	70.8	1405.1	18.9	1003.43	-382.77	1405.1	1204.3	-181.9
166	[68]**4**		-23.4	40.9	677.3	10.3	343.33	-344.27	677.3	510.3	-177.3
167	[68]**5**		-23.4	40.9	677.3	10.3	343.33	-344.27	677.3	510.3	-177.3
168	[68]**6**		-22.8	40.0	849.9	60.7	392.65	-396.55	849.9	621.3	-167.9
169	[68]**7**		-23.4	40.9	493.3	98.5	343.33	-248.47	493.3	418.3	-173.5
170	[68]**8**		-23.4	40.9	493.3	119.1	343.33	-269.07	493.3	418.3	-194.1
171	[68]		-31.5	55.1	859.2	140.1	494.65	-224.45	859.2	676.9	-42.2
172	[68]		-43.1	58.7	1379.9	210.8	960.45	-208.65	1379.9	1170.2	1.1
173	[69]		-53.3	49.4	347.9	42.8	428.52	37.82	347.9	388.2	-2.5
174	[69]		-30.9	44.2	376.6	80.1	383.97	-72.73	376.6	380.3	-76.4
183	[70]		-51.6	37.6	291.4	72.5	299.47	80.57	291.4	295.4	76.5
184	[70]		-24.2	36.4	305.2	75.4	317.31	-63.29	305.2	311.3	-69.3
186	[70]		-22.2	32.4	253.7	53.2	210.37	-96.53	253.7	232	-74.9
187	[70]		-37.7	46.2	1140.3	93.6	827.49	-406.41	1140.3	983.9	-250

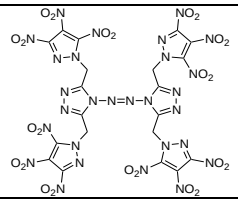
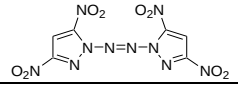
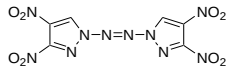
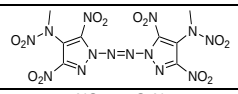
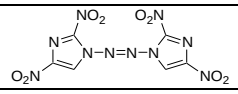
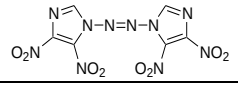
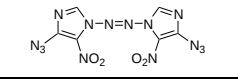
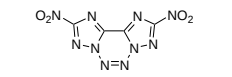
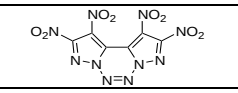
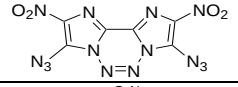
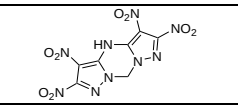
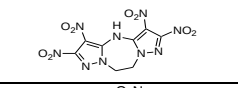
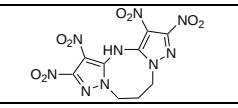
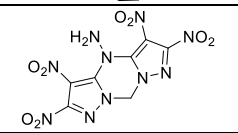
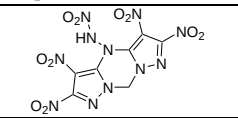
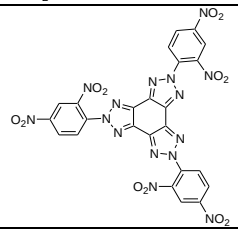
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
188	[70]		-37.7	46.2	1140.3	126.4	827.49	-186.41	1140.3	983.9	-30
189	[70]		-51.6	37.6	291.4	53.5	299.47	61.57	291.4	295.4	57.5
190	[70]		-24.2	36.4	305.2	62.9	317.31	-50.79	305.2	311.3	-56.8
191	[71]		-76.1	50.0	246.9	60.3	155.73	-30.87	246.9	201.3	14.7
193	[71]		-67.4	50.6	868.1	162.6	334.43	-371.07	868.1	601.3	-104.2
194	[71]		-91.0	58.7	279.8	11	325.54	34.74	279.8	302.7	11.9
199	[73]		-70.8	49.5	364.6	84.4	313.82	-135.18	364.6	339.2	-109.8
200	[73]		-64.2	50.0	1072.8	133.4	650.61	-555.59	1072.8	861.7	-344.5
210	[75]		-35.2	37.0	207.9	167.4	445.16	69.86	207.9	326.5	-48.8
211	[75]		-47.3	35.5	275.3	26.6	418.36	116.46	275.3	346.8	44.9
212	[75]		-58.5	34.1	250.7	48.4	391.56	92.46	250.7	321.1	22
216	[75]		-35.9	39.3	376.8	34.8	432.55	90.55	376.8	404.7	62.7
217	[75]		-21.9	38.4	399	122.6	441.47	-80.13	399	420.2	-101.4
219	[76]		-27.9	40.7	432.5	25.3	340.75	-117.05	432.5	386.6	-71.2
220	[77]		-40.4	42.4	236	16.6	111.18	-108.22	236	173.6	-45.8

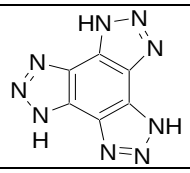
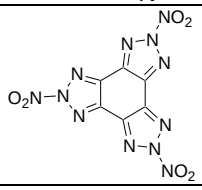
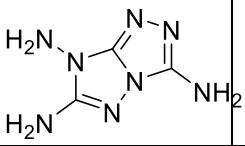
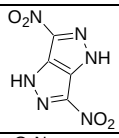
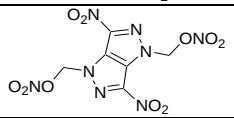
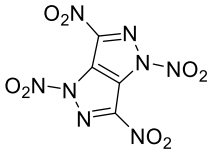
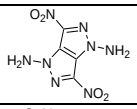
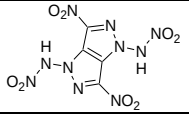
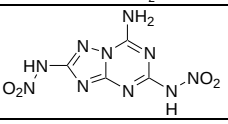
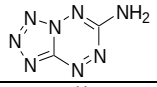
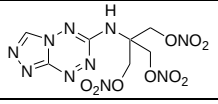
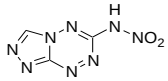
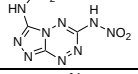
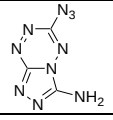
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
221	[77]		-34.1	-34.1	1026.3	240.2	352.27	-433.83	1026.3	689.3	-96.8
222	[77]		-32.6	42.9	790.8	63.4	245.33	-608.87	790.8	518.1	-336.1
223	[78]		-65.3	57.1	564.9	166.9	462.06	64.06	564.9	513.5	115.5
231	[80]		-61.0	61.8	887.2	165.6	728.72	7.12	887.2	808	86.4
232	[80]		-74.1	75.1	1070.2	203.7	804.38	-62.12	1070.2	937.3	70.8
239	[81]		-44.6	64.0	625.7	8.6	546.64	-87.66	625.7	586.2	-48.1
240	[81]		-43.9	61.5	592.6	64.2	493.17	-163.63	592.6	542.9	-113.9
241	[82]		-68.4	46.8	301.3	24.2	80.14	-245.36	301.3	190.7	-134.8
254	[85]		17.3	39.0	334.6	50.3	157.13	-127.17	334.6	245.9	-38.4
258	[85]		5.8	40.3	312.4	64.9	171.36	-76.14	312.4	241.9	-5.6
261	[86]		-29.6	41.5	410.7	66.7	341.85	-2.15	410.7	376.3	32.3
262	[87]		-71.2	38.4	327.3	194.27	365.13	-156.44	327.3	346.2	-175.37

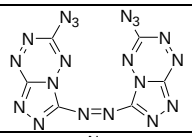
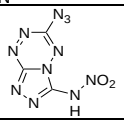
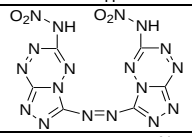
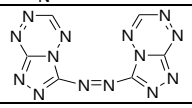
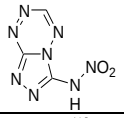
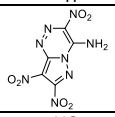
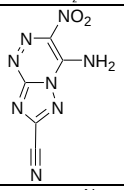
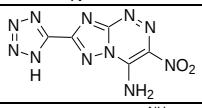
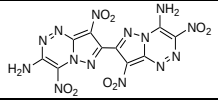
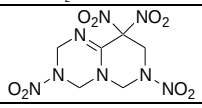
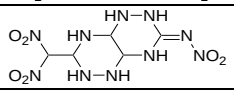
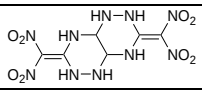
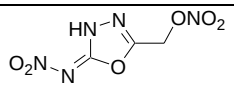
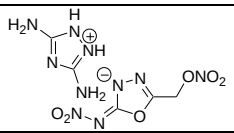
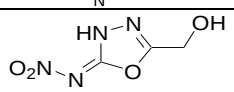
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
263	[87]		-71.1	38.9	505.1	134.69	430.87	-208.92	505.1	468	-171.79
264	[87]		-39.1	37.3	660	102.11	427.59	-334.52	660	543.8	-218.31
265	[87]		-33.5	36.7	482.2	400.24	361.85	-520.59	482.2	422	-460.44
266	[87]		-39.1	37.3	488.2	114.45	386.41	-216.24	488.2	437.3	-165.35
267	[88]		-69.9	54.4	532.2	1.1	688.02	154.72	532.2	610.1	76.8
268	[88]		-61.0	61.8	926.9	203.5	728.72	5.32	926.9	827.8	104.4
269	[89]		-81.7	56.0	530.6	161.6	482.19	113.19	530.6	506.4	137.4
270	[90]		-111.2	64.9	433.8	72.8	463.7	102.7	433.8	448.8	87.8
271	[90]		-52.8	49.7	194.9	28.1	252.54	29.54	194.9	223.7	0.7
272	[91]		-47.6	58.3	1220.8	115.2	828.13	-507.87	1220.8	1024.5	-311.5
273	[91]		-103.1	67.7	842.7	281.6	873.59	-250.71	842.7	858.1	-266.2
283	[92]		-122.7	58.6	941.3	58.8	753.4	-129.1	941.3	847.4	-35.1
284	[92]		-95.9	33.6	421.8	17.9	313.83	-90.07	421.8	367.8	-36.1
285	[92]		-95.9	33.6	421.8	13.1	313.83	-94.87	421.8	367.8	-40.9
286	[92]		-95.9	33.6	421.8	28.9	313.83	-79.07	421.8	367.8	-25.1

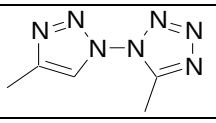
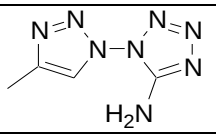
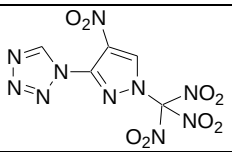
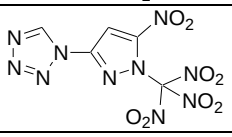
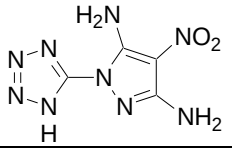
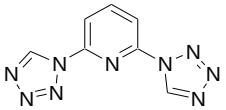
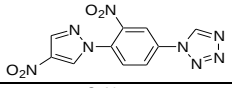
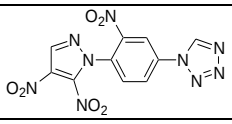
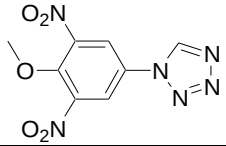
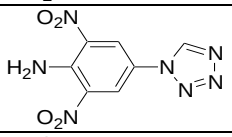
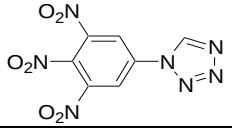
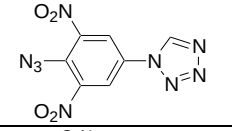
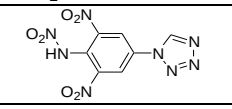
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
287	[92]		-84.2	31.6	243.4	59.3	313.83	11.13	243.4	278.6	-24.1
288	[92]		-84.2	31.6	243.4	44	181.61	-105.79	243.4	212.5	-74.9
289	[92]		-84.2	31.6	243.4	79	181.61	-140.79	243.4	212.5	-109.9
290	[92]		-84.2	31.6	243.4	50.3	181.61	-112.09	243.4	212.5	-81.2
291	[92]		-100.6	37.1	584.9	69.4	548.65	-105.65	584.9	566.8	-87.5
292	[92]		-76.0	36.3	576.5	51.5	526.42	-101.58	576.5	551.5	-76.5
293	[92]		-79.6	39.0	427.6	58.6	368.26	-0.74	427.6	397.9	28.9
294	[92]		-54.0	37.8	449.9	45.5	377.18	-118.22	449.9	413.5	-81.9
295	[92]		-54.1	34.9	361.3	109.2	323.71	-146.79	361.3	342.5	-128
296	[92]		-66.4	45.5	858.2	113.9	632.27	-112.03	858.2	745.2	0.9
301	[94]		-47.0	32.9	328.3	1.7	331.19	4.59	328.3	329.7	3.1
302	[94]		-58.7	31.6	211.7	68.4	304.39	24.29	211.7	258	-22.1
303	[94]		-63.5	44.4	454.7	109.4	489.34	144.04	454.7	472	126.7
304	[94]		-78.1	42.1	430.1	122.9	462.54	155.34	430.1	446.3	139.1
305	[95]		-67.4	50.6	828.5	117.3	334.43	-376.77	828.5	581.5	-129.7
306	[95]		-68.8	46.4	807.7	25.2	289.79	-543.11	807.7	548.7	-284.2

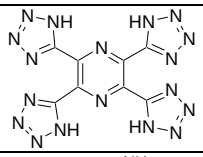
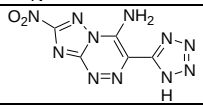
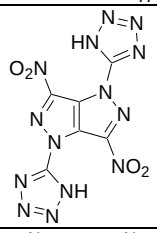
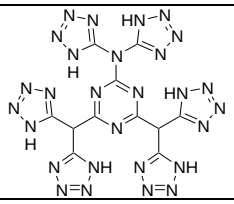
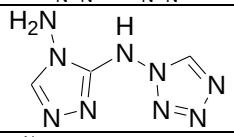
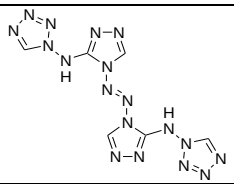
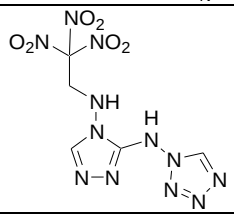
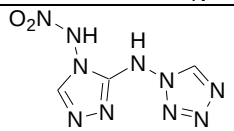
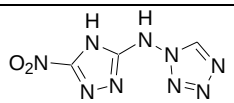
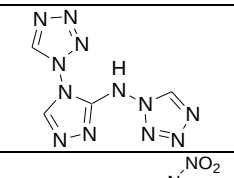
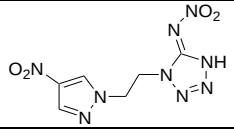
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
307	[95]		-92.1	42.4	835.2	138.7	225.57	-470.93	835.2	530.4	-166.1
308	[95]		-107.2	51.2	1019.7	155.4	565.19	-299.11	1019.7	792.4	-71.9
309	[95]		-74.0	51.8	810.9	123	654.87	-279.03	810.9	732.9	-201
310	[95]		-58.2	64.9	1301.6	77.3	736.27	-488.03	1301.6	1018.9	-205.4
311	[95]		-67.4	50.6	828.5	144.4	266.14	-417.96	828.5	547.3	-136.8
312	[95]		-66.3	54.1	793.8	23.9	427.17	-342.73	793.8	610.5	-159.4
313	[95]		-82.4	59.4	262	658.8	674.05	-246.75	262	468	-452.8
314	[95]		-34.1	46.4	964.9	73.1	352.27	-685.73	964.9	658.6	-379.4
315	[95]		-31.5	55.1	803.7	85.7	494.65	-223.35	803.7	649.2	-68.8
316	[95]		-27.6	36.2	271.8	25.8	-161.25	-407.25	271.8	55.3	-190.7
317	[95]		-83.3	72.9	2170.5	230.5	1601.87	-338.13	2170.5	1886.2	-53.8
318	[95]		-56.8	39.8	1331.9	50.1	1089.55	-292.45	1331.9	1210.7	-171.3
319	[95]		-56.6	43.4	1563.8	80.8	1178.83	-304.17	1563.8	1371.3	-111.7

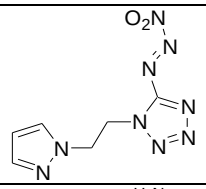
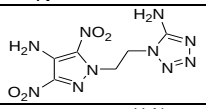
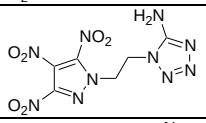
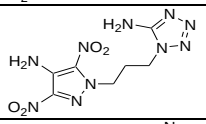
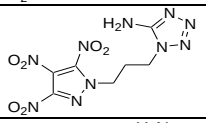
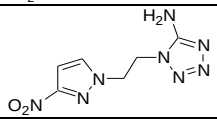
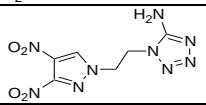
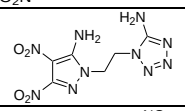
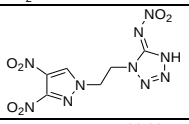
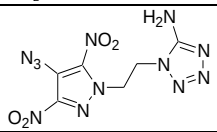
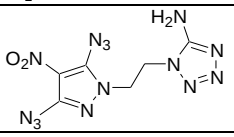
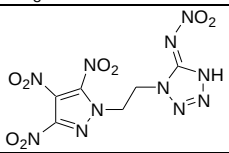
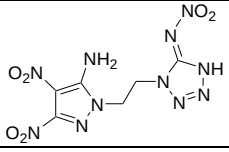
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
320	[95]		-31.2	38.3	1298.3	60.7	1000.63	-358.37	1298.3	1149.5	-209.5
321	[95]		-23.4	40.9	677.3	10.3	343.33	-344.27	677.3	510.3	-177.3
322	[95]		-23.4	40.9	677.3	10.3	343.33	-344.27	677.3	510.3	-177.3
323	[95]		-22.8	40.0	849.9	105.8	392.65	-351.45	849.9	621.3	-122.8
324	[95]		-23.4	40.9	493.3	98.5	343.33	-248.47	493.3	418.3	-173.5
325	[95]		-23.4	40.9	493.3	119.1	343.33	-269.07	493.3	418.3	-194.1
326	[95]		-43.1	58.7	1379.9	90.2	960.45	-329.25	1379.9	1170.2	-119.5
327	[96]		-25.4	55.6	861.4	74.4	647.15	-139.85	861.4	754.3	-32.7
328	[96]		-18.8	41.2	735	23.5	495.83	-262.67	735	615.4	-143.1
329	[96]		-38.5	59.0	1437.6	118.8	1112.95	-205.85	1437.6	1275.3	-43.5
330	[96]		-35.2	37.0	207.9	167.4	445.16	69.86	207.9	326.5	-48.8
331	[96]		-47.3	35.5	275.3	26.6	418.36	116.46	275.3	346.8	44.9
332	[96]		-58.5	34.1	250.7	48.4	391.56	92.46	250.7	321.1	22
333	[96]		-35.9	39.3	399	57.1	432.55	90.65	399	415.8	73.9
334	[96]		-21.9	38.4	521.7	0.2	441.47	-80.03	521.7	481.6	-39.9
336	[96]		-92.6	30.0	1257.3	562.3	1006.99	311.99	1257.3	1132.1	437.1

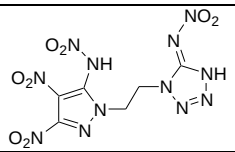
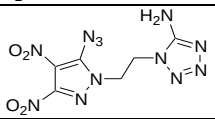
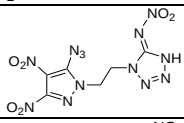
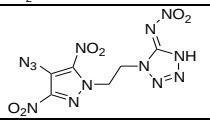
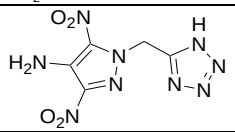
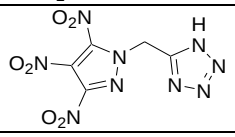
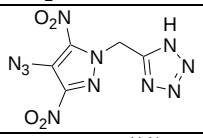
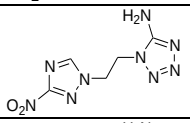
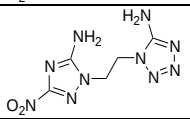
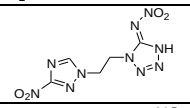
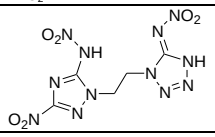
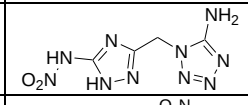
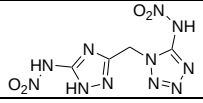
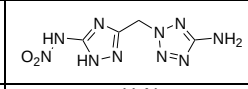
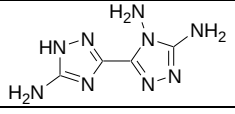
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
337	[96]		-107.4	62.7	915.2	452.2	774.94	311.94	915.2	845.1	382.1
338	[96]		-28.6	50.0	1109.3	399.3	814.41	104.41	1109.3	961.9	251.9
339	[96]		-93.4	72.7	453.8	16.7	501.24	30.74	453.8	477.5	7
340	[96]		-40.4	42.4	140.9	181.7	295.21	-27.39	140.9	218.1	-104.5
341	[96]		-18.4	32.2	61.3	72.4	-13.79	-147.49	61.3	23.8	-109.9
342	[96]		0.0	38.9	295.8	255.1	291.93	-258.97	295.8	293.9	-257
343	[96]		-42.1	49.1	256.9	210.1	381.03	-85.97	256.9	319	-148
344	[96]		-5.0	44.0	270.7	324.5	398.87	-196.33	270.7	334.8	-260.4
346	[96]		-37.5	54.7	500.7	44.2	524.45	-20.45	500.7	512.6	-32.3
347	[96]		-57.9	81.1	867.5	181.3	568.83	-117.37	867.5	718.2	32
350	[96]		-38.3	37.2	251.2	5.2	14.83	-231.17	251.2	133	-113
351	[96]		-43.9	61.5	567.8	107.3	524.32	-150.78	567.8	546.1	-129
352	[96]		-19.8	57.9	709.3	31.6	555.56	-185.34	709.3	632.4	-108.5
355	[96]		-62.9	78.6	1034	120.4	801.73	-111.87	1034	917.9	4.3

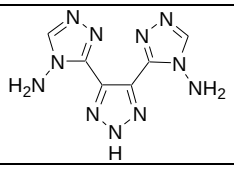
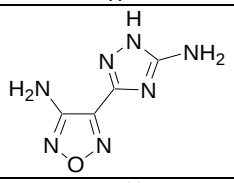
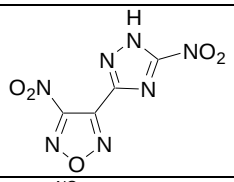
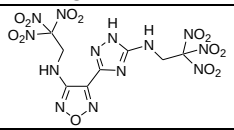
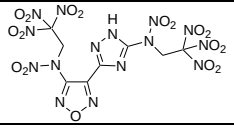
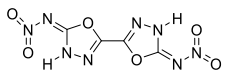
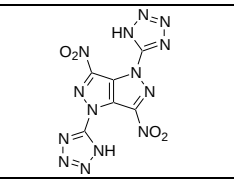
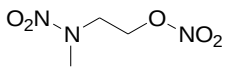
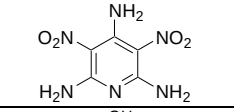
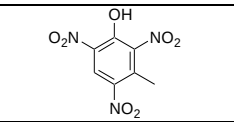
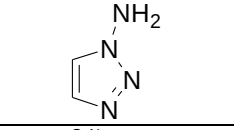
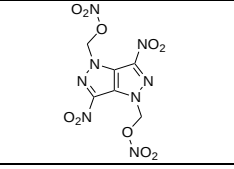
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
356	[96]		-54.5	79.5	2335	140.4	1626.43	-568.17	2335	1980.7	-213.9
357	[96]		-32.3	69.1	1056.3	104.5	810.65	-141.15	1056.3	933.5	-18.3
358	[96]		-36.9	64.6	1595	442.8	1116.25	-921.55	1595	1355.6	-682.2
359	[96]		-77.0	72.6	1465.2	60	1053.77	-471.43	1465.2	1259.5	-265.7
360	[96]		-43.9	61.5	659.7	11.9	524.32	-123.48	659.7	592	-55.8
361	[96]		-29.6	41.5	410.7	40.7	341.85	-28.15	410.7	376.3	6.3
363	[96]		-69.9	54.4	664.6	131.1	688.02	154.52	664.6	676.3	142.8
364	[96]		-61.0	61.8	926.9	174.2	728.72	-23.98	926.9	827.8	75.1
365	[96]		-50.0	43.7	912.2	13.2	748.55	-150.45	912.2	830.4	-68.6
366	[96]		-40.0	35.0	223.3	98.54	166.22	41.46	223.3	194.8	70.04
367	[96]		-47.0	45.7	-66.5	370.7	184.42	-119.78	-66.5	59	-245.2
368	[96]				35	313.2	270.09	-78.11	35	152.5	-195.7
370	[98]		-11.7	34.1	-21.4	47.53	-152.23	-178.36	-21.4	-86.8	-112.93
374	[98]		-42.1	46.0	279.1	229.28		-508.38	279.1	139.6	-368.78
376	[98]		-40.0	35.0	-107.6	32.03	-161.48	-85.91	-107.6	-134.5	-58.93

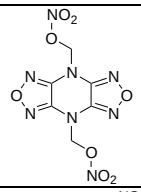
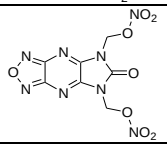
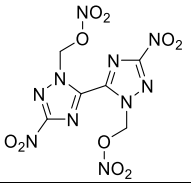
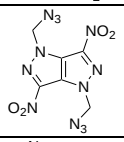
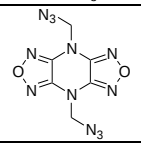
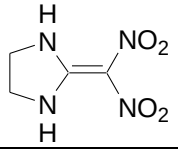
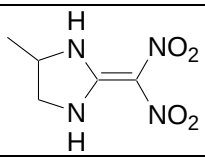
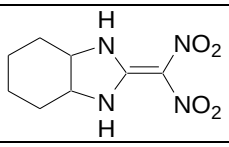
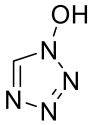
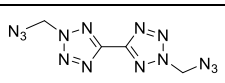
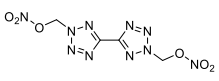
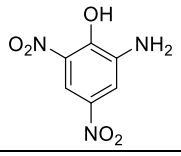
		Compound	Ω_{CO2} [%]	N%	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^0(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^0(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
377	[99]		-130.8	59.4	812.5	112.88	481.1	-218.52	812.5	646.8	-52.82
378	[99]		-105.9	67.4	895	147.83	535.53	-211.64	895	715.3	-31.87
379	[99]		-14.5	42.4	582.9	19.1	396.52	-205.48	582.9	489.7	-112.3
380	[99]		-14.5	42.4	582.9	46.1	396.52	-232.48	582.9	489.7	-139.3
381	[99]		-64.4	59.7	483.3	75.6	493.71	86.01	483.3	488.5	80.8
382	[99]		-122.7	58.6	941.3	58.8	753.4	-129.1	941.3	847.4	-35.1
383	[99]		-100.6	37.1	676.9	22.6	548.65	-105.65	676.9	612.8	-41.5
384	[99]		-76.0	36.3	576.5	51.5	526.42	-101.58	576.5	551.5	-76.5
385	[99]		-84.2	31.6	335.4	32.7	181.61	-121.09	335.4	258.5	-44.2
386	[99]		-79.6	39.0	427.6	58.6	368.26	-0.74	427.6	397.9	28.9
387	[99]		-54.1	34.9	453.2	17.3	323.71	-146.79	453.2	388.5	-82
388	[99]		-66.4	45.5	950.2	205.9	632.27	-112.03	950.2	791.2	46.9
389	[99]		-54.0	37.8	541.8	46.4	377.18	-118.22	541.8	459.5	-35.9

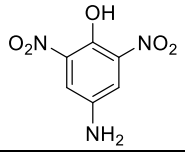
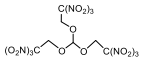
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
390	[99]		-81.8	71.6	1778.2	395.2	1343.61	-39.39	1778.2	1560.9	177.9
391	[99]		-61.0	61.8	926.9	205.3	728.72	7.12	926.9	827.8	106.2
392	[99]		-43.1	58.7	1085.5	26	914.35	-197.15	1085.5	999.9	-111.6
393	[99]		-78.1	73.7	2719.1	886.1	2025.1	192.1	2719.1	2372.1	539.1
396	[99]		-81.4	75.4	550.5	312.4	621.11	-241.79	550.5	585.8	-277.1
397	[99]		-72.7	76.3	1586.1	213.3	1265.19	-534.21	1586.1	1425.6	-373.8
398	[99]		-33.9	50.9	690.7	401.1	558.48	-533.32	690.7	624.6	-467.2
399	[99]		-45.3	66.0	787.3	136	630.03	-293.27	787.3	708.7	-214.6
400	[99]		-44.6	64.0	484.1	466.5	555.97	-394.63	484.1	520	-430.6
401	[99]		-72.7	76.3	964.8	291.7	908.36	-348.14	964.8	936.6	-319.9
402	[99]		-68.4	46.8	602.4	139.4	405.89	-57.11	602.4	504.1	41.1

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
403	[99]		-91.1	53.2	818.5	296.2	475.6	-46.7	818.5	647.1	124.8
404	[99]		-67.6	49.3	565.3	191.6	450.79	77.09	565.3	508	134.3
405	[99]		-45.8	44.6	594	163.3	406.24	-24.46	594	500.1	69.4
406	[99]		-80.5	47.0	540.7	176.1	430.15	65.55	540.7	485.4	120.8
407	[99]		-58.5	42.7	569.4	132.1	385.6	-51.7	569.4	477.5	40.2
408	[99]		-99.9	50.0	610.8	255	450.7	94.9	610.8	530.8	175
409	[99]		-68.4	46.8	602.4	207.7	428.47	33.77	602.4	515.4	120.7
410	[99]		-67.6	49.3	565.3	196.3	450.79	81.79	565.3	508	139
411	[99]		-45.8	44.6	594	108.4	383.66	-101.94	594	488.8	3.2
412	[99]		-56.7	54.2	1090.9	306	714.8	-70.1	1090.9	902.9	118
413	[99]		-67.9	64.0	1480.6	422.8	1023.36	-34.44	1480.6	1252	194.2
414	[99]		-29.0	42.9	585.6	69.3	361.43	-154.87	585.6	473.5	-42.8
415	[99]		-46.2	46.8	556.9	101.1	405.98	-49.82	556.9	481.4	25.6

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
416	[99]		-29.9	44.9	579.1	77.3	414.9	-86.9	579.1	497	-4.8
417	[99]		-56.7	54.2	1090.9	363.7	714.8	-12.4	1090.9	902.9	175.7
418	[99]		-38.3	51.3	1082.5	270	669.99	-142.51	1082.5	876.2	63.7
419	[99]		-38.3	51.3	1082.5	238.1	669.99	-174.41	1082.5	876.2	31.8
420	[99]		-53.3	49.4	439.9	49.2	428.52	37.82	439.9	434.2	43.5
421	[99]		-30.9	44.2	468.6	11.9	383.97	-72.73	468.6	426.3	-30.4
422	[99]		-42.7	54.8	965.6	183.5	692.53	-89.57	965.6	829.1	47
423	[99]		-81.7	56.0	637.9	255.1	504.13	121.33	637.9	571	188.2
424	[99]		-79.9	58.3	695.9	336.5	526.45	167.05	695.9	611.2	251.8
425	[99]		-53.3	51.8	629.5	152.7	459.32	-17.48	629.5	544.4	67.6
426	[99]		-33.9	50.9	709.7	198.2	490.56	-20.94	709.7	600.1	88.6
427	[99]		-63.7	61.9	659.1	182.9	557.65	81.45	659.1	608.4	132.2
428	[99]		-38.4	56.8	742.7	457.7	566.57	281.57	742.7	654.6	369.6
429	[99]		-63.7	61.9	659.1	196.3	557.65	94.85	659.1	608.4	145.6
430	[100]		-101.6	69.6	544.9	148.1	538.26	141.46	544.9	541.6	144.8

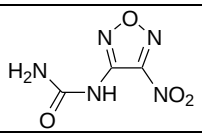
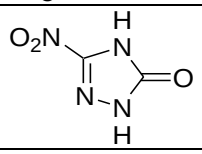
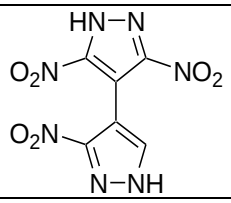
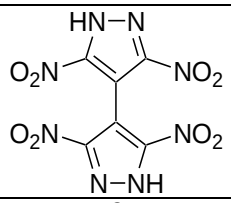
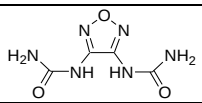
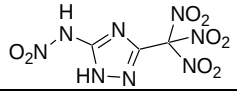
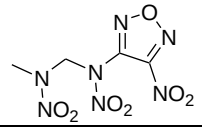
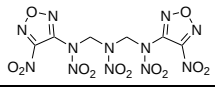
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
431	[100]		-106.4	66.1	784.7	21.7	772.08	9.08	784.7	778.4	15.4
432	[101]		-91.0	58.7	366.9	37.13	325.54	-78.49	366.9	346.2	-57.83
433	[101]		-24.7	43.2	234.2	265.71	236.44	-263.47	234.2	235.3	-264.61
434	[101]		-21.1	36.9	340.8	110.58	200.28	-251.1	340.8	270.5	-180.88
435	[101]		-4.1	36.0	446.6	202.35	206.88	-442.07	446.6	326.7	-322.25
453	[102]		-18.6	43.4	313.1	153.3	66.11	-93.69	313.1	189.6	29.8
454	[103]		-43.1	58.7	1085.5	26	914.35	-197.15	1085.5	999.9	-111.6
460	[26]		-43.6	25.5	-125.7	24.3	-191.46	-41.46	-125.7	-158.6	-8.6
461	[38]		-67.2	39.2	11.1	50	156.76	195.66	11.1	83.9	122.8
462	[38]		-62.5	17.3	-216.1	36.2	-195.28	57.02	-216.1	-205.7	46.6
463	[24]		-114.2	66.6	278.6	7	258.07	-27.53	278.6	268.3	-17.3
465	[105]		-18.4	32.2	61.3	72.4	-13.79	-147.49	61.3	23.8	-109.9

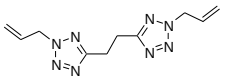
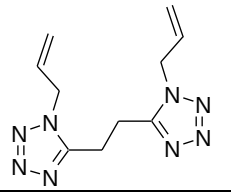
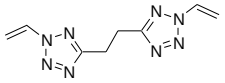
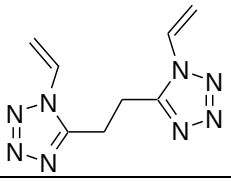
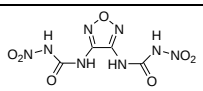
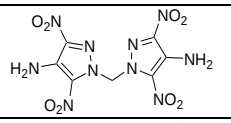
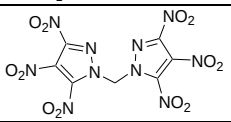
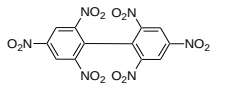
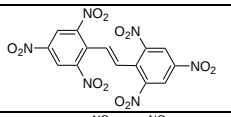
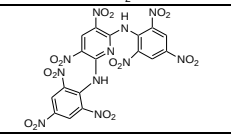
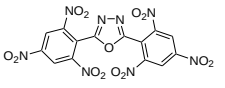
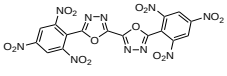
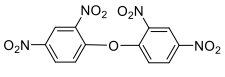
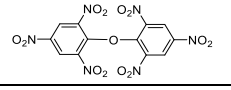
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
466	[105]		-30.4	35.4	185.4	91.2	-45.93	-322.53	185.4	69.7	-206.9
467	[105]		-39.0	34.1	-3.4	3.8	-25.84	-18.64	-3.4	-14.6	-7.4
468	[105]		-17.0	37.2	179.5	65.9	97.25	-16.35	179.5	138.4	24.8
469	[105]		-51.9	54.5	1056.6	110.3	867.77	-78.53	1056.6	962.2	15.9
470	[105]		-69.5	60.9	1180.7	80.5	835.63	-264.57	1180.7	1008.2	-92
471	[47]		-64.3	32.2	-56	50.3	75.27	80.97	-56	9.6	15.3
472	[47]		-85.0	29.8	-80.6	133.9	34.29	-19.01	-80.6	-23.2	-76.5
473	[47]		-126.2	24.6	-96.6	204	39.01	-68.39	-96.6	-28.8	-136.2
474	[106]		-37.2	65.1	238.1	13.9	111.87	-140.13	238.1	175	-77
478	[107]		-64.5	79.0	1596.1	338.1	1130.13	-127.87	1596.1	1363.1	105.1
479	[107]		-22.2	48.6	600.8	159.8	248.57	-192.43	600.8	424.7	-16.3
480	[108]		-76.3	21.1	-201.8	60.6	-118.62	143.78	-201.8	-160.2	102.2

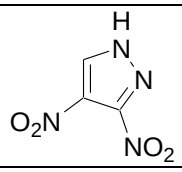
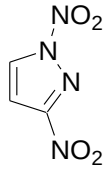
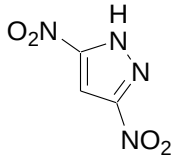
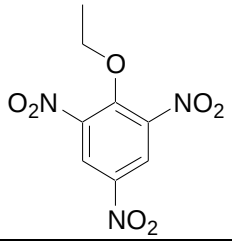
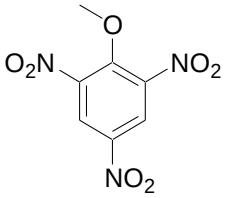
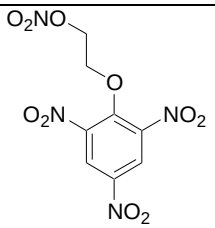
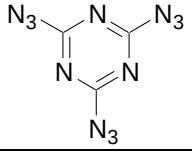
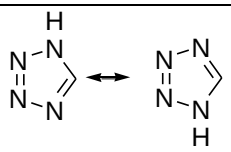
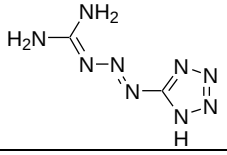
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
481	[109]		-76.3	21.1	-201.8	201.3	-118.62	-118.12	-201.8	-160.2	-159.7
482	[110]		10.1	22.8	-519.9	501.1	-781.13	239.87	-519.9	-650.5	370.5

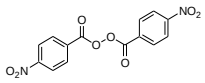
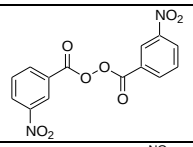
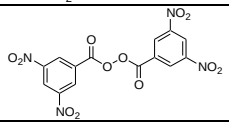
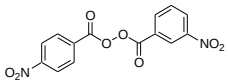
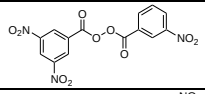
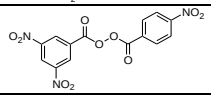
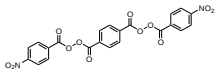
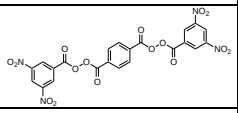
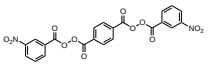
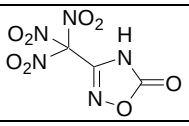
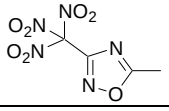
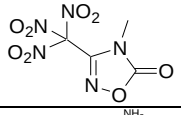
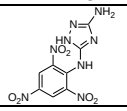
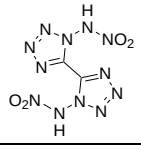
2.5.2 The heat of formation of aromatic compounds

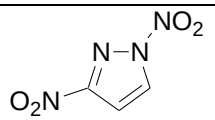
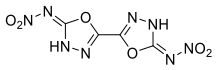
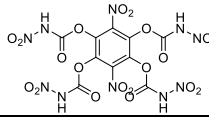
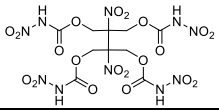
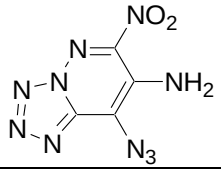
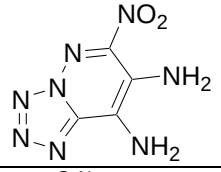
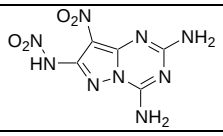
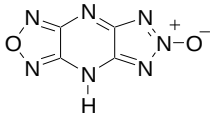
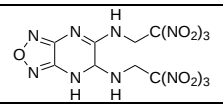
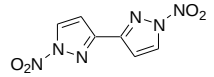
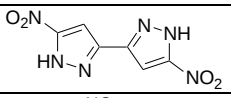
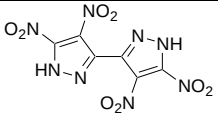
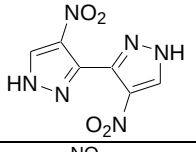
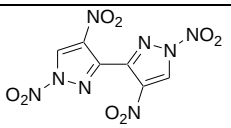
Table 95. Table summarizing the structural formulae, empirical formulae and the heat of formation of the aromatic compounds.

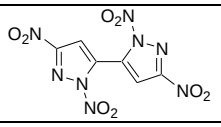
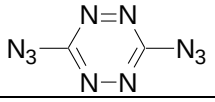
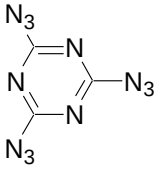
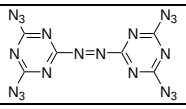
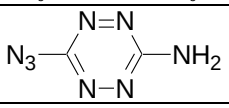
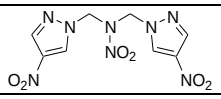
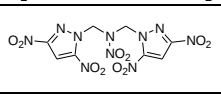
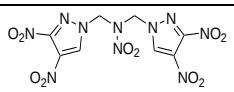
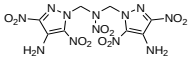
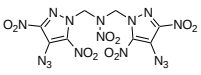
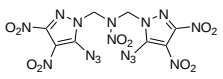
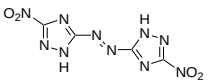
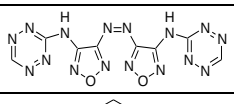
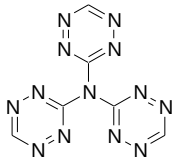
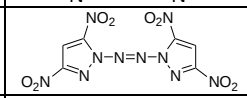
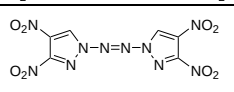
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4	[25]		-32.4	40.5	63	-134.6	-197.6	49.68	-13.32	-42.5	105.5
5	[23] [26]		-24.6	43.1	-97	-163.7	-66.7	48.9	145.9	-57.4	39.6
6	[27]		-44.6	36.4	224.9	141.1	-83.8	277.16	52.26	209.1	15.8
7	[27]		-25.5	35.7	227.8	132.6	-95.2	254.93	27.13	193.8	34
8	[25]		-68.8	45.2	-162	-261.1	-99.1	30.18	192.18	-115.5	46.5
9	[28]		5.8	40.3	269	278.6	9.6	173.26	-95.74	225.9	43.1
10	[29]		-21.3	37.3	265	172.9	-92.1	83.91	-181.09	128.4	136.6
11	[29]		-7.3	38.5	603	391.8	-211.2	195.66	-407.34	293.7	309.3

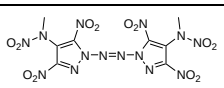
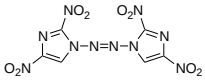
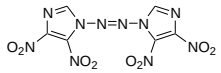
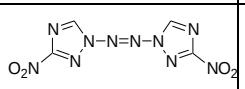
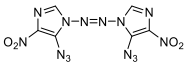
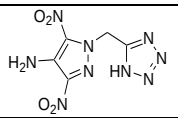
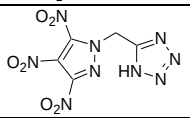
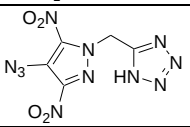
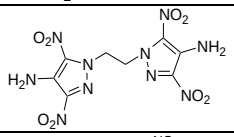
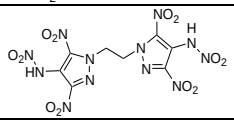
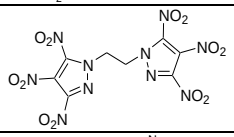
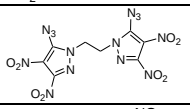
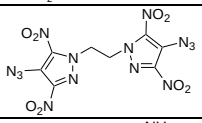
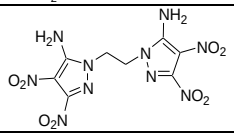
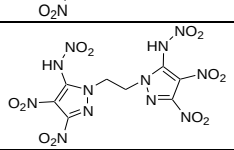
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
12	[30]		-175,4	45.5	605	602.3	-2.7	661.55	56.55	631.9	26.9
13	[30]		-175.4	45.5	622	602.3	-19.7	661.55	39.55	631.9	9.9
14	[30]		-154.0	51.4	635	651.5	16.5	702.83	67.83	677.2	42.2
15	[30]		-154.0	51.4	643	651.5	8.5	702.83	59.83	677.2	34.2
16	[25]		-17.4	34.1	-22	-183.9	-161.9	116.31	138.31	-33.8	11.8
17	[31]		-40.2	39.1	205	224	19	320.11	115.11	272.1	67.1
18	[31]		-11.5	33.5	379	186.3	-192.7	231.01	-147.99	208.7	170.3
19	[32] [26]		-52.8	19.8	61.1	100.3	39.2	48.67	-12.43	74.5	13.4
20	[32]		-67.5	18.7	78.2	200.8	122.6	86.64	8.44	143.7	65.5
21	[32]		-55.4	24.8	43.7	208.3	164.6	265.8	222.1	237.1	193.4
22	[32] [33]		-55.3	22.8	266.55	232.1	-34.45	114.41	-152.14	173.3	93.25
23	[32]		-57.1	25.0	197.6	409.9	212.3	180.15	-17.45	295	97.4
24	[34]		-82.2	16.0	-168.1	55.1	223.2	-39.09	129.01	8	176.1
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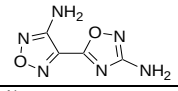
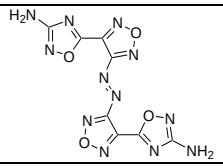
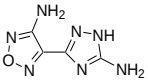
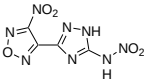
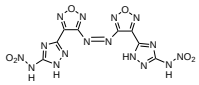
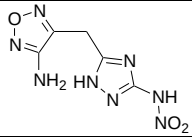
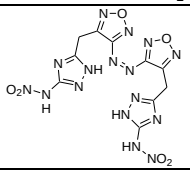
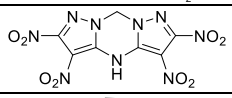
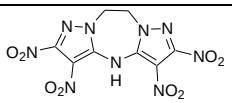
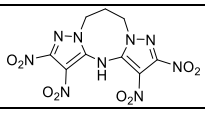
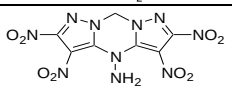
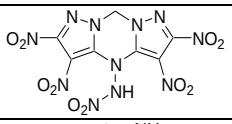
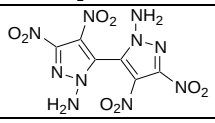
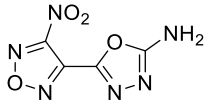
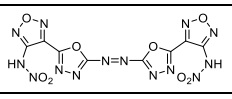
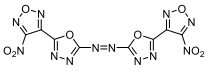
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
36	[37]		-30.4	35.4	124.3	29.3	-95	117.27	-7.03	73.3	51
37	[37]		-30.4	35.4	189.1	106	-83.1	137.86	-51.24	121.9	67.2
38	[37]		-30.4	35.4	73.2	29.3	-43.9	117.27	44.07	73.3	0.1
39	[26]		-77.8	16.3	-154.5	-222.2	-67.7	-170.83	-16.33	-196.5	42
40	[38]		-62.5	17.3	-187.2	-197.6	-10.4	-150.19	37.01	-173.9	13.3
41	[38]		-45.3	17.6	-277.4	-277.3	0.1	-313.81	-36.41	-295.6	18.2
47	[24] [40]		-47.0	82.3	1053	1412.8	359.8	1100.11	47.11	1256.5	203.5
58	[38]		-68.5	80.0	237.07	303.2	66.13	268.59	31.52	285.9	48.83
63	[38]		-67.0	81.3	382	633.1	251.1	423.71	41.71	528.4	146.4

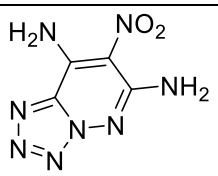
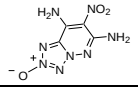
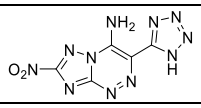
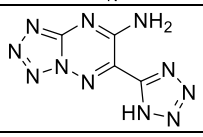
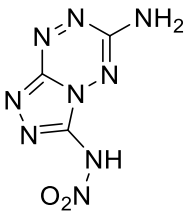
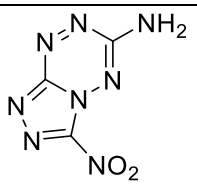
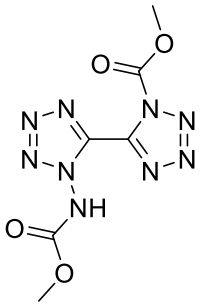
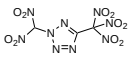
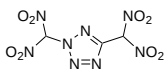
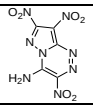
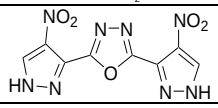
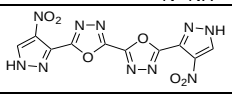
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
67	[48]		-115.6	8.4	-415	-353.4	61.6	-370.27	44.73	-361.8	53.2
68	[48]		-115.6	8.4	-406	353.4	759.4	-370.27	35.73	-8.4	397.6
69	[48]		-72.0	13.3	-410	-358	52	-414.73	-4.73	-386.4	23.6
70	[48]		-115.6	8.4	-404	-353.4	50.6	-370.27	33.73	-361.8	42.2
71	[48]		-91.2	11.1	-405	-361.8	43.2	-392.5	12.5	-377.2	27.8
72	[48]		-91.2	11.1	-405	-361.8	43.2	-392.5	12.5	-377.2	27.8
73	[48]		-122.5	5.6	-761	-604.1	156.9	-776.91	-15.91	-690.5	70.5
74	[48]		-90.1	9.6	-752	-620.9	131.1	-821.37	-69.37	-721.1	30.9
75	[48]		-122.5	5.6	-752	-604.1	147.9	-776.91	-24.91	-690.5	61.5
96	[54]		10.2	29.8	142	-257.9	-399.9	-171.82	-313.82	-214.9	356.9
97	[54]		-17.2	30.0	43	78.1	35.1	-59.9	-102.9	9.1	33.9
98	[54]		-9.6	28.1	133	-23.5	-156.5	-183.34	-316.34	-103.4	236.4
105	[55]		-67.1	36.1	147.4	299	151.6	325.48	178.08	312.2	164.8
109	[56]		-6.2	65.1	932.1	810.1	-122	661.23	-270.87	735.7	196.4

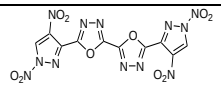
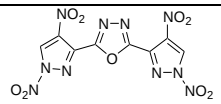
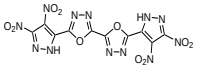
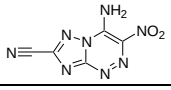
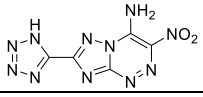
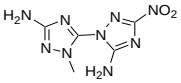
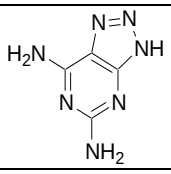
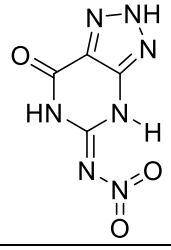
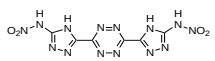
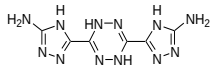
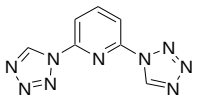
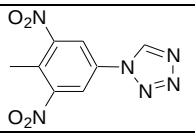
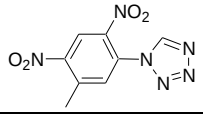
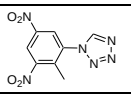
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
120	[37]		-30.4	35.4	189.1	106	**-83.1**	137.86	**-51.24**	**121.9**	**67.2**
123	[58]		**-18.6**	**43.4**	**278.6**	**190.5**	**-88.1**	**66.11**	**-212.49**	**128.3**	**150.3**
129	[60]		**-5.5**	**24.0**	**-1275**	**-1125.2**	**149.8**	**-854.39**	**420.61**	**-989.8**	**285.2**
130	[60]		**-16.2**	**23.7**	**-1441.5**	**-1355.9**	**85.6**	**-1051.07**	**390.43**	**-1203.5**	**238**
131	[61]		**-50.4**	**63.1**	**811.2**	**998.6**	**187.4**	**726.07**	**-85.13**	**862.3**	**51.1**
132	[61]		**-65.3**	**57.1**	**446.5**	**472.9**	**26.4**	**462.06**	**15.56**	**467.5**	**21**
136	[62]		**-53.3**	**49.4**	**314**	**331**	**17**	**439.87**	**125.87**	**385.4**	**71.4**
137	[63]		**-58.1**	**54.7**	**597**	**475.7**	**-121.3**	**521.64**	**-75.36**	**498.7**	**98.3**
138	[63]		**-23.3**	**35.0**	**110**	**138**	**28**	**162.52**	**52.52**	**150.3**	**40.3**
139	[64]		**-71.4**	**37.5**	**413.9**	**321.2**	**-92.7**	**340.57**	**-73.33**	**330.9**	**83**
140	[64]		**-71.4**	**37.5**	**229.1**	**149.5**	**-79.6**	**299.39**	**70.29**	**224.4**	**4.7**
141	[64]		**-25.5**	**35.7**	**42.7**	**132.6**	**89.9**	**254.93**	**212.23**	**193.8**	**151.1**
142	[64]		**-71.4**	**37.5**	**221**	**149.5**	**-71.5**	**299.39**	**78.39**	**224.4**	**3.4**
143	[64]		**-25.5**	**35.7**	**407.1**	**304.4**	**-102.7**	**296.11**	**-110.99**	**300.3**	**106.8**

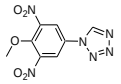
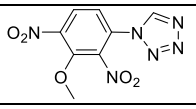
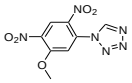
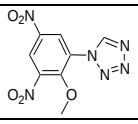
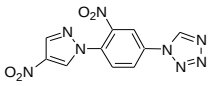
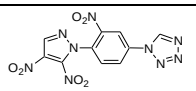
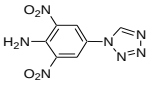
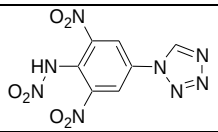
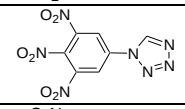
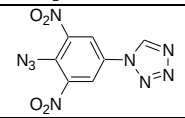
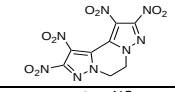
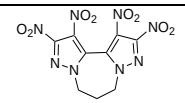
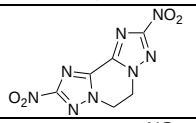
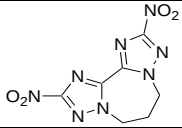
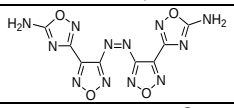
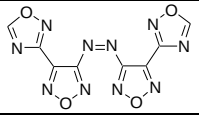
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144	[64]		-25.5	35.7	444.1	304.4	-139.7	296.11	-147.99	300.3	143.8
145	[40]		-39.0	85.4	1130	1206.1	76.1	867.21	-262.79	1036.7	93.3
146	[40]		-47.0	82.3	1053	1412.8	359.8	1100.11	47.11	1256.5	203.5
147	[40]		-54.5	79.5	2171	2022.5	-148.5	1747.35	-423.65	1884.9	286.1
148	[40]		-57.9	81.1	686.2	882.8	196.6	603.2	-83	743	56.8
150	[65]		-71.8	35.9	377.2	367.6	-9.6	362.89	-14.31	365.2	12
151	[65]		-35.8	34.8	388	350.8	-37.2	311.6	-76.4	331.2	56.8
152	[65]		-35.8	34.8	398	350.8	-47.2	311.6	-86.4	331.2	66.8
153	[65]		-37.0	38.9	486.4	371.6	-114.8	356.24	-130.16	363.9	122.5
154	[65]		-26.4	46.3	1108.2	1220.5	112.3	884.26	-223.94	1052.4	55.8
155	[65]		-26.4	46.3	1118.7	1220.5	101.8	884.26	-234.44	1052.4	66.3
156	[66]		-31.5	55.1	571.7	580.1	8.4	453.47	-118.23	516.8	54.9
162	[67]		-71.9	62.9	1654.3	1283.9	-370.4	895.13	-759.17	1089.5	564.8
165	[67]		-84.0	70.8	1386.2	1405.1	18.9	1003.43	-382.77	1204.3	181.9
166	[68]**4**		-23.4	40.9	687.6	677.3	-10.3	343.33	-344.27	510.3	177.3
167	[68]**5**		-23.4	40.9	687.6	677.3	-10.3	343.33	-344.27	510.3	177.3

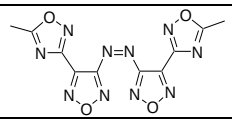
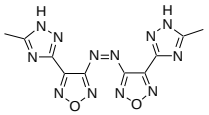
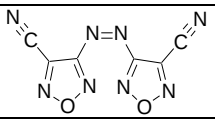
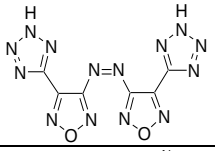
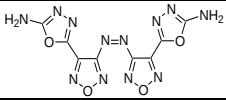
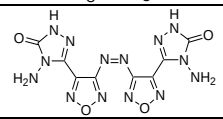
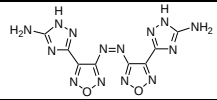
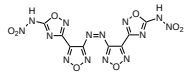
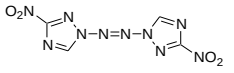
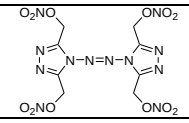
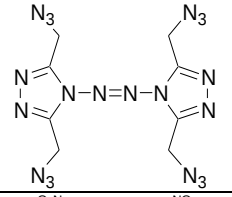
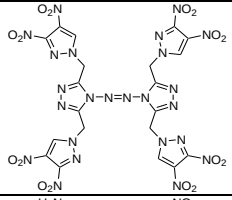
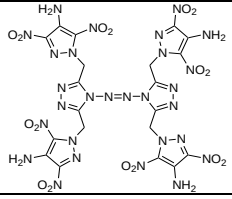
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
168	[68]**6**		**-22.8**	**40.0**	**789.2**	**849.9**	**60.7**	**392.65**	**-396.55**	**621.3**	**167.9**
169	[68]**7**		**-23.4**	**40.9**	**591.8**	**493.3**	**-98.5**	**343.33**	**-248.47**	**418.3**	**173.5**
170	[68]**8**		**-23.4**	**40.9**	**612.4**	**493.3**	**-119.1**	**343.33**	**-269.07**	**418.3**	**194.1**
171	[68]		**-31.5**	**55.1**	**719.1**	**859.2**	**140.1**	**494.65**	**-224.45**	**676.9**	**42.2**
172	[68]		**-43.1**	**58.7**	**1169.1**	**1379.9**	**210.8**	**960.45**	**-208.65**	**1170.2**	**1.1**
173	[69]		**-53.3**	**49.4**	**390.7**	**347.9**	**-42.8**	**428.52**	**37.82**	**388.2**	**2.5**
174	[69]		**-30.9**	**44.2**	**456.7**	**376.6**	**-80.1**	**383.97**	**-72.73**	**380.3**	**76.4**
179	[69]		**-42.7**	**54.8**	**782.1**	**873.6**	**91.5**	**692.53**	**-89.57**	**783.1**	**1**
183	[70]		**-51.6**	**37.6**	**218.9**	**291.4**	**72.5**	**299.47**	**80.57**	**295.4**	**76.5**
184	[70]		**-24.2**	**36.4**	**380.6**	**305.2**	**-75.4**	**317.31**	**-63.29**	**311.3**	**69.3**
186	[70]		**-22.2**	**32.4**	**306.9**	**253.7**	**-53.2**	**210.37**	**-96.53**	**232**	**74.9**
187	[70]		**-37.7**	**46.2**	**1233.9**	**1140.3**	**-93.6**	**827.49**	**-406.41**	**983.9**	**250**
188	[70]		**-37.7**	**46.2**	**1013.9**	**1140.3**	**126.4**	**827.49**	**-186.41**	**983.9**	**30**
189	[70]		**-51.6**	**37.6**	**237.9**	**291.4**	**53.5**	**299.47**	**61.57**	**295.4**	**57.5**
190	[70]		**-24.2**	**36.4**	**368.1**	**305.2**	**-62.9**	**317.31**	**-50.79**	**311.3**	**56.8**

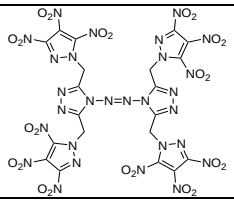
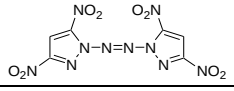
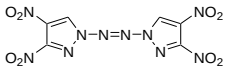
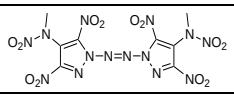
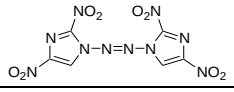
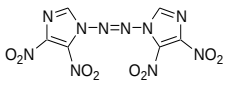
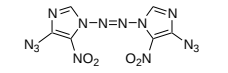
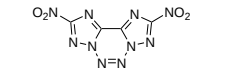
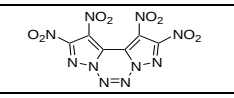
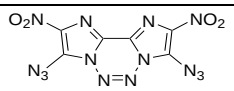
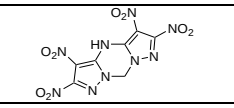
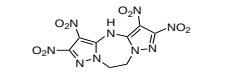
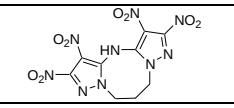
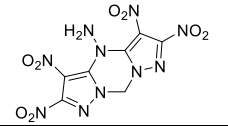
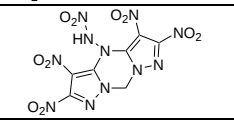
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
191	[71]		-76.1	50.0	186.6	246.9	60.3	155.73	-30.87	201.3	14.7
193	[71]		-67.4	50.6	705.5	868.1	162.6	334.43	-371.07	601.3	104.2
194	[71]		-91.0	58.7	290.8	279.8	-11	325.54	34.74	302.7	11.9
197	[73]		-26.4	46.3	524.66	322.8	-201.86	289.91	-234.75	306.4	218.26
198	[73]		-45.7	53.3	1274.4	1121.9	-152.5	691.89	-582.51	906.9	367.5
199	[73]		-70.8	49.5	449	364.6	-84.4	313.82	-135.18	339.2	109.8
200	[73]		-64.2	50.0	1206.2	1072.8	-133.4	650.61	-555.59	861.7	344.5
210	[75]		-35.2	37.0	375.3	207.9	-167.4	445.16	69.86	326.5	48.8
211	[75]		-47.3	35.5	301.9	275.3	-26.6	418.36	116.46	346.8	44.9
212	[75]		-58.5	34.1	299.1	250.7	-48.4	391.56	92.46	321.1	22
216	[75]		-35.9	39.3	342	376.8	34.8	432.55	90.55	404.7	62.7
217	[75]		-21.9	38.4	521.6	399	-122.6	441.47	-80.13	420.2	101.4
219	[76]		-27.9	40.7	457.8	432.5	-25.3	340.75	-117.05	386.6	71.2
220	[77]		-40.4	42.4	219.4	236	16.6	111.18	-108.22	173.6	45.8
221	[77]		-34.1	-34.1	786.1	1026.3	240.2	352.27	-433.83	689.3	96.8
222	[77]		-32.6	42.9	854.2	790.8	-63.4	245.33	-608.87	518.1	336.1

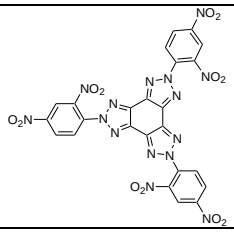
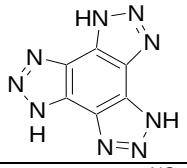
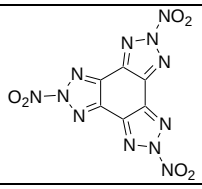
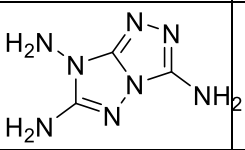
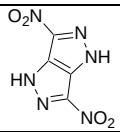
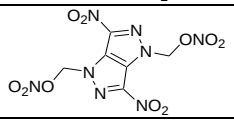
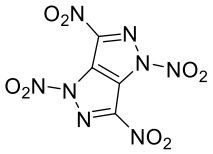
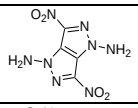
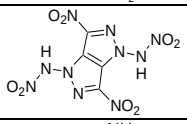
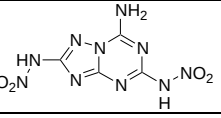
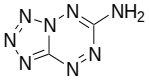
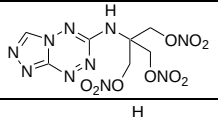
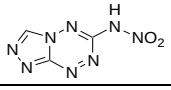
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
223	[78]		-65.3	57.1	398	564.9	166.9	462.06	64.06	513.5	115.5
224	[78]		-52.8	52.8	470	502.8	32.8		-470	251.4	218.6
231	[80]		-61.0	61.8	721.6	887.2	165.6	728.72	7.12	808	86.4
232	[80]		-74.1	75.1	866.5	1070.2	203.7	804.38	-62.12	937.3	70.8
233	[81]		-44.6	64.0	634.3	625.7	-8.6	546.64	-87.66	586.2	48.1
234	[81]		-43.9	61.5	656.8	592.6	-64.2	493.17	-163.63	542.9	113.9
235	[82]		-68.4	46.8	325.5	301.3	-24.2	80.14	-245.36	190.7	134.8
248	[85]		17.3	39.0	284.3	334.6	50.3	157.13	-127.17	245.9	38.4
252	[85]		5.8	40.3	247.5	312.4	64.9	171.36	-76.14	241.9	5.6
255	[86]		-29.6	41.5	344	410.7	66.7	341.85	-2.15	376.3	32.3
256	[87]		-71.2	38.4	521.57	327.3	-194.27	365.13	-156.44	346.2	175.37
257	[87]		-71.1	38.9	639.79	505.1	-134.69	430.87	-208.92	468	171.79

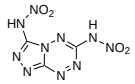
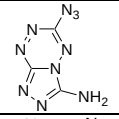
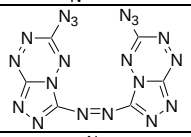
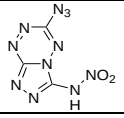
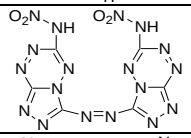
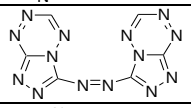
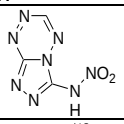
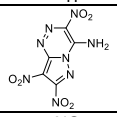
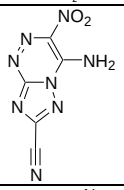
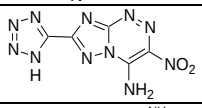
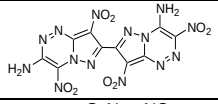
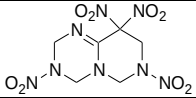
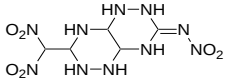
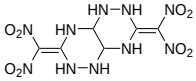
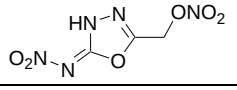
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
258	[87]		-39.1	37.3	762.11	660	-102.11	427.59	-334.52	543.8	218.31
259	[87]		-33.5	36.7	882.44	482.2	-400.24	361.85	-520.59	422	460.44
260	[87]		-39.1	37.3	602.65	488.2	-114.45	386.41	-216.24	437.3	165.35
261	[88]		-69.9	54.4	533.3	532.2	-1.1	688.02	154.72	610.1	76.8
262	[88]		-61.0	61.8	723.4	926.9	203.5	728.72	5.32	827.8	104.4
263	[89]		-81.7	56.0	369	530.6	161.6	482.19	113.19	506.4	137.4
264	[90]		-111.2	64.9	361	433.8	72.8	463.7	102.7	448.8	87.8
265	[90]		-52.8	49.7	223	194.9	-28.1	252.54	29.54	223.7	0.7
266	[91]		-47.6	58.3	1336	1220.8	-115.2	828.13	-507.87	1024.5	311.5
267	[91]		-103.1	67.7	1124.3	842.7	-281.6	873.59	-250.71	858.1	266.2
277	[92]		-122.7	58.6	882.5	941.3	58.8	753.4	-129.1	847.4	35.1
278	[92]		-95.9	33.6	403.9	421.8	17.9	313.83	-90.07	367.8	36.1
279	[92]		-95.9	33.6	408.7	421.8	13.1	313.83	-94.87	367.8	40.9
280	[92]		-95.9	33.6	392.9	421.8	28.9	313.83	-79.07	367.8	25.1

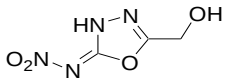
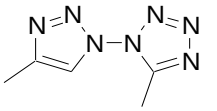
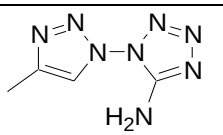
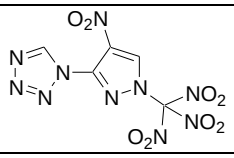
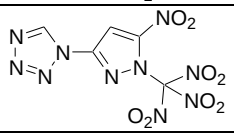
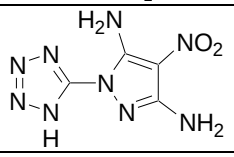
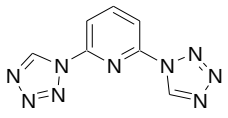
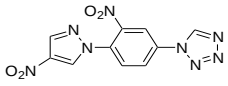
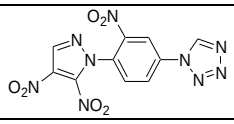
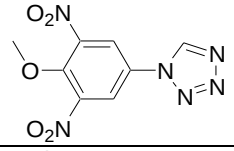
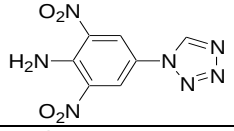
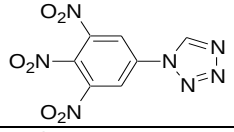
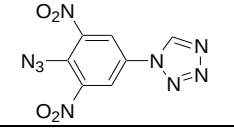
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
281	[92]		-84.2	31.6	302.7	243.4	-59.3	313.83	11.13	278.6	24.1
282	[92]		-84.2	31.6	287.4	243.4	-44	181.61	-105.79	212.5	74.9
283	[92]		-84.2	31.6	322.4	243.4	-79	181.61	-140.79	212.5	109.9
284	[92]		-84.2	31.6	293.7	243.4	-50.3	181.61	-112.09	212.5	81.2
285	[92]		-100.6	37.1	654.3	584.9	-69.4	548.65	-105.65	566.8	87.5
286	[92]		-76.0	36.3	628	576.5	-51.5	526.42	-101.58	551.5	76.5
287	[92]		-79.6	39.0	369	427.6	58.6	368.26	-0.74	397.9	28.9
288	[92]		-54.0	37.8	495.4	449.9	-45.5	377.18	-118.22	413.5	81.9
289	[92]		-54.1	34.9	470.5	361.3	-109.2	323.71	-146.79	342.5	128
290	[92]		-66.4	45.5	744.3	858.2	113.9	632.27	-112.03	745.2	0.9
295	[94]		-47.0	32.9	326.6	328.3	1.7	331.19	4.59	329.7	3.1
296	[94]		-58.7	31.6	280.1	211.7	-68.4	304.39	24.29	258	22.1
297	[94]		-63.5	44.4	345.3	454.7	109.4	489.34	144.04	472	126.7
298	[94]		-78.1	42.1	307.2	430.1	122.9	462.54	155.34	446.3	139.1
299	[95]		-67.4	50.6	711.2	828.5	117.3	334.43	-376.77	581.5	129.7
300	[95]		-68.8	46.4	832.9	807.7	-25.2	289.79	-543.11	548.7	284.2

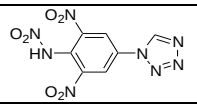
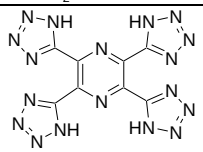
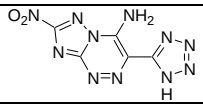
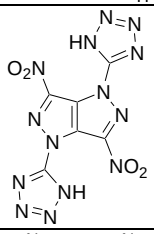
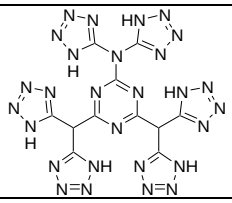
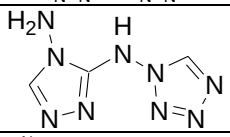
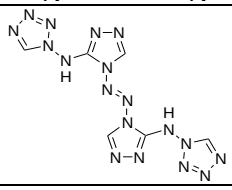
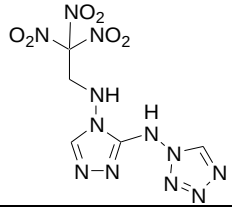
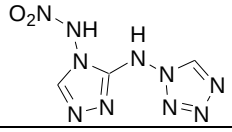
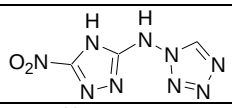
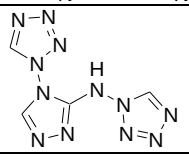
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
301	[95]		-92.1	42.4	696.5	835.2	138.7	225.57	-470.93	530.4	166.1
302	[95]		-107.2	51.2	864.3	1019.7	155.4	565.19	-299.11	792.4	71.9
303	[95]		-74.0	51.8	933.9	810.9	-123	654.87	-279.03	732.9	201
304	[95]		-58.2	64.9	1224.3	1301.6	77.3	736.27	-488.03	1018.9	205.4
305	[95]		-67.4	50.6	684.1	828.5	144.4	266.14	-417.96	547.3	136.8
306	[95]		-66.3	54.1	769.9	793.8	23.9	427.17	-342.73	610.5	159.4
307	[95]		-82.4	59.4	920.8	262	-658.8	674.05	-246.75	468	452.8
308	[95]		-34.1	46.4	1038	964.9	-73.1	352.27	-685.73	658.6	379.4
309	[95]		-31.5	55.1	718	803.7	85.7	494.65	-223.35	649.2	68.8
310	[95]		-27.6	36.2	246	271.8	25.8	-161.25	-407.25	55.3	190.7
311	[95]		-83.3	72.9	1940	2170.5	230.5	1601.87	-338.13	1886.2	53.8
312	[95]		-56.8	39.8	1382	1331.9	-50.1	1089.55	-292.45	1210.7	171.3
313	[95]		-56.6	43.4	1483	1563.8	80.8	1178.83	-304.17	1371.3	111.7

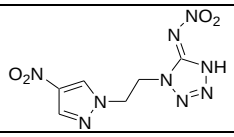
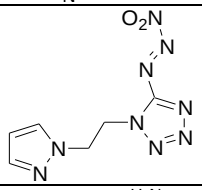
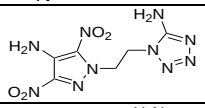
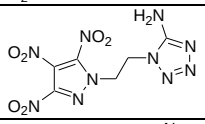
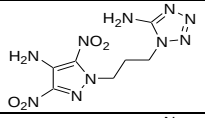
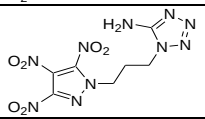
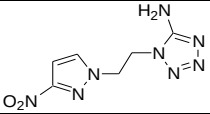
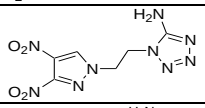
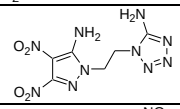
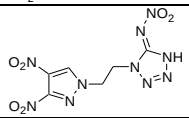
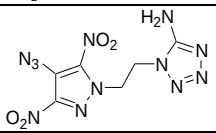
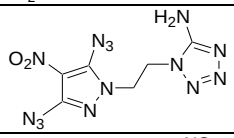
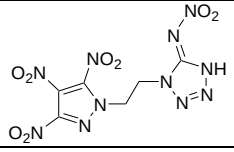
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
314	[95]		-31.2	38.3	1359	1298.3	-60.7	1000.63	-358.37	1149.5	209.5
315	[95]		-23.4	40.9	687.6	677.3	-10.3	343.33	-344.27	510.3	177.3
316	[95]		-23.4	40.9	687.6	677.3	-10.3	343.33	-344.27	510.3	177.3
317	[95]		-22.8	40.0	744.1	849.9	105.8	392.65	-351.45	621.3	122.8
318	[95]		-23.4	40.9	591.8	493.3	-98.5	343.33	-248.47	418.3	173.5
319	[95]		-23.4	40.9	612.4	493.3	-119.1	343.33	-269.07	418.3	194.1
320	[95]		-43.1	58.7	1289.7	1379.9	90.2	960.45	-329.25	1170.2	119.5
321	[96]		-25.4	55.6	787	861.4	74.4	647.15	-139.85	754.3	32.7
322	[96]		-18.8	41.2	758.5	735	-23.5	495.83	-262.67	615.4	143.1
323	[96]		-38.5	59.0	1318.8	1437.6	118.8	1112.95	-205.85	1275.3	43.5
324	[96]		-35.2	37.0	375.3	207.9	-167.4	445.16	69.86	326.5	48.8
325	[96]		-47.3	35.5	301.9	275.3	-26.6	418.36	116.46	346.8	44.9
326	[96]		-58.5	34.1	299.1	250.7	-48.4	391.56	92.46	321.1	22
327	[96]		-35.9	39.3	341.9	399	57.1	432.55	90.65	415.8	73.9
328	[96]		-21.9	38.4	521.5	521.7	0.2	441.47	-80.03	481.6	39.9

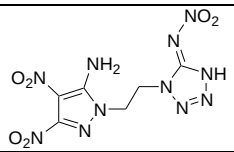
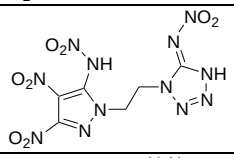
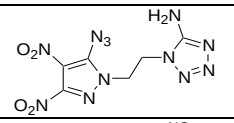
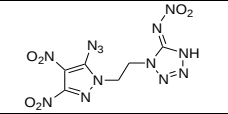
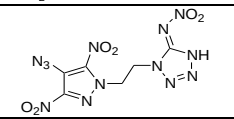
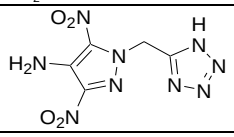
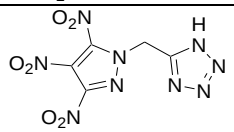
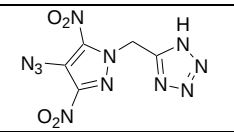
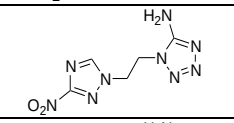
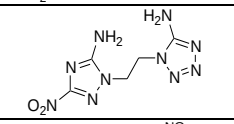
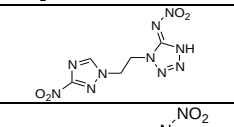
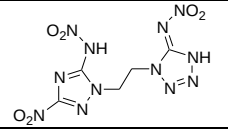
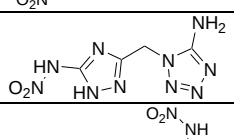
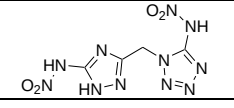
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
330	[96]		-92.6	30.0	695	1257.3	562.3	1006.99	311.99	1132.1	437.1
331	[96]		-107.4	62.7	463	915.2	452.2	774.94	311.94	845.1	382.1
332	[96]		-28.6	50.0	710	1109.3	399.3	814.41	104.41	961.9	251.9
333	[96]		-93.4	72.7	470.5	453.8	-16.7	501.24	30.74	477.5	7
334	[96]		-40.4	42.4	322.6	140.9	-181.7	295.21	-27.39	218.1	104.5
335	[96]		-18.4	32.2	133.7	61.3	-72.4	-13.79	-147.49	23.8	109.9
336	[96]		0.0	38.9	550.9	295.8	-255.1	291.93	-258.97	293.9	257
337	[96]		-42.1	49.1	467	256.9	-210.1	381.03	-85.97	319	148
338	[96]		-5.0	44.0	595.2	270.7	-324.5	398.87	-196.33	334.8	260.4
340	[96]		-37.5	54.7	544.9	500.7	-44.2	524.45	-20.45	512.6	32.3
341	[96]		-57.9	81.1	686.2	867.5	181.3	568.83	-117.37	718.2	32
344	[96]		-38.3	37.2	246	251.2	5.2	14.83	-231.17	133	113
345	[96]		-43.9	61.5	675.1	567.8	-107.3	524.32	-150.78	546.1	129

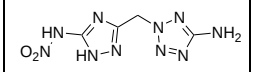
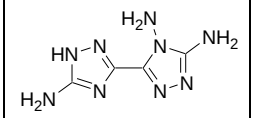
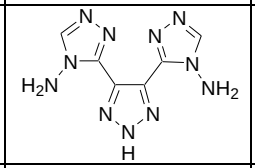
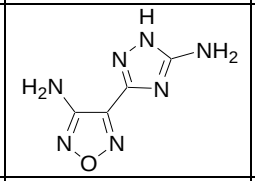
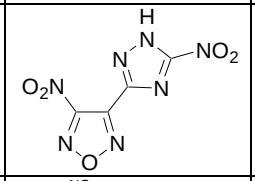
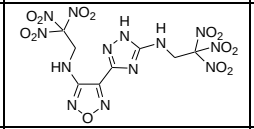
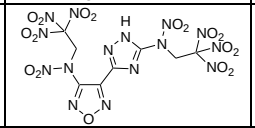
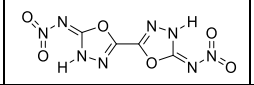
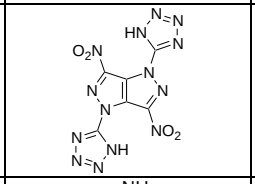
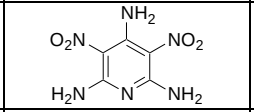
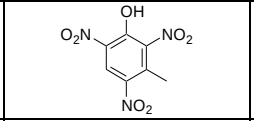
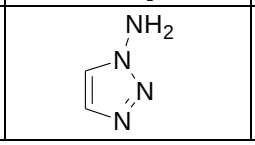
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
346	[96]		-19.8	57.9	740.9	709.3	-31.6	555.56	-185.34	632.4	108.5
349	[96]		-62.9	78.6	913.6	1034	120.4	801.73	-111.87	917.9	4.3
350	[96]		-54.5	79.5	2194.6	2335	140.4	1626.43	-568.17	1980.7	213.9
351	[96]		-32.3	69.1	951.8	1056.3	104.5	810.65	-141.15	933.5	18.3
352	[96]		-36.9	64.6	2037.8	1595	-442.8	1116.25	-921.55	1355.6	682.2
353	[96]		-77.0	72.6	1525.2	1465.2	-60	1053.77	-471.43	1259.5	265.7
354	[96]		-43.9	61.5	647.8	659.7	11.9	524.32	-123.48	592	55.8
355	[96]		-29.6	41.5	370	410.7	40.7	341.85	-28.15	376.3	6.3
357	[96]		-69.9	54.4	533.5	664.6	131.1	688.02	154.52	676.3	142.8
358	[96]		-61.0	61.8	752.7	926.9	174.2	728.72	-23.98	827.8	75.1
359	[96]		-50.0	43.7	899	912.2	13.2	748.55	-150.45	830.4	68.6
360	[96]		-40.0	35.0	124.76	223.3	98.54	166.22	41.46	194.8	70.04
361	[96]		-47.0	45.7	304.2	-66.5	-370.7	184.42	-119.78	59	245.2
362	[96]				348.2	35	-313.2	270.09	-78.11	152.5	195.7
364	[98]		-11.7	34.1	26.13	-21.4	-47.53	-152.23	-178.36	-86.8	112.93

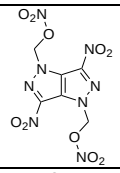
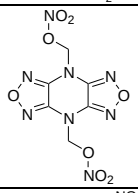
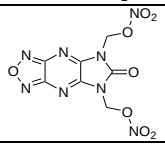
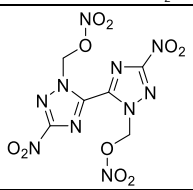
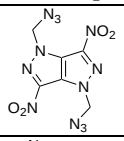
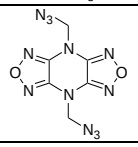
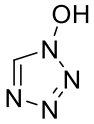
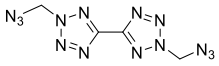
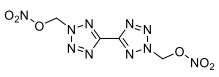
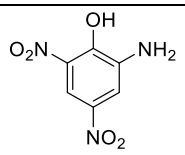
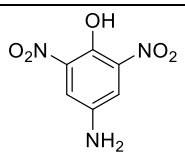
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
370	[98]		-40.0	35.0	-75.57	-107.6	-32.03	-161.48	-85.91	-134.5	58.93
371	[99]		-130.8	59.4	699.62	812.5	112.88	481.1	-218.52	646.8	52.82
372	[99]		-105.9	67.4	747.17	895	147.83	535.53	-211.64	715.3	31.87
373	[99]		-14.5	42.4	602	582.9	-19.1	396.52	-205.48	489.7	112.3
374	[99]		-14.5	42.4	629	582.9	-46.1	396.52	-232.48	489.7	139.3
375	[99]		-64.4	59.7	407.7	483.3	75.6	493.71	86.01	488.5	80.8
376	[99]		-122.7	58.6	882.5	941.3	58.8	753.4	-129.1	847.4	35.1
377	[99]		-100.6	37.1	654.3	676.9	22.6	548.65	-105.65	612.8	41.5
378	[99]		-76.0	36.3	628	576.5	-51.5	526.42	-101.58	551.5	76.5
379	[99]		-84.2	31.6	302.7	335.4	32.7	181.61	-121.09	258.5	44.2
380	[99]		-79.6	39.0	369	427.6	58.6	368.26	-0.74	397.9	28.9
381	[99]		-54.1	34.9	470.5	453.2	-17.3	323.71	-146.79	388.5	82
382	[99]		-66.4	45.5	744.3	950.2	205.9	632.27	-112.03	791.2	46.9

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
383	[99]		-54.0	37.8	495.4	541.8	46.4	377.18	-118.22	459.5	35.9
384	[99]		-81.8	71.6	1383	1778.2	395.2	1343.61	-39.39	1560.9	177.9
385	[99]		-61.0	61.8	721.6	926.9	205.3	728.72	7.12	827.8	106.2
386	[99]		-43.1	58.7	1111.5	1085.5	-26	914.35	-197.15	999.9	111.6
387	[99]		-78.1	73.7	1833	2719.1	886.1	2025.1	192.1	2372.1	539.1
390	[99]		-81.4	75.4	862.9	550.5	-312.4	621.11	-241.79	585.8	277.1
391	[99]		-72.7	76.3	1799.4	1586.1	-213.3	1265.19	-534.21	1425.6	373.8
392	[99]		-33.9	50.9	1091.8	690.7	-401.1	558.48	-533.32	624.6	467.2
393	[99]		-45.3	66.0	923.3	787.3	-136	630.03	-293.27	708.7	214.6
394	[99]		-44.6	64.0	950.6	484.1	-466.5	555.97	-394.63	520	430.6
395	[99]		-72.7	76.3	1256.5	964.8	-291.7	908.36	-348.14	936.6	319.9

		Compound	Ω_{CO2} [%]	N%	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^0(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^0(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
396	[99]		-68.4	46.8	463	602.4	139.4	405.89	-57.11	504.1	41.1
397	[99]		-91.1	53.2	522.3	818.5	296.2	475.6	-46.7	647.1	124.8
398	[99]		-67.6	49.3	373.7	565.3	191.6	450.79	77.09	508	134.3
399	[99]		-45.8	44.6	430.7	594	163.3	406.24	-24.46	500.1	69.4
400	[99]		-80.5	47.0	364.6	540.7	176.1	430.15	65.55	485.4	120.8
401	[99]		-58.5	42.7	437.3	569.4	132.1	385.6	-51.7	477.5	40.2
402	[99]		-99.9	50.0	355.8	610.8	255	450.7	94.9	530.8	175
403	[99]		-68.4	46.8	394.7	602.4	207.7	428.47	33.77	515.4	120.7
404	[99]		-67.6	49.3	369	565.3	196.3	450.79	81.79	508	139
405	[99]		-45.8	44.6	485.6	594	108.4	383.66	-101.94	488.8	3.2
406	[99]		-56.7	54.2	784.9	1090.9	306	714.8	-70.1	902.9	118
407	[99]		-67.9	64.0	1057.8	1480.6	422.8	1023.36	-34.44	1252	194.2
408	[99]		-29.0	42.9	516.3	585.6	69.3	361.43	-154.87	473.5	42.8

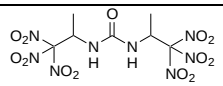
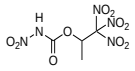
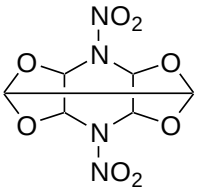
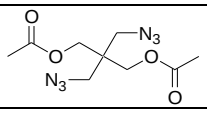
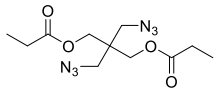
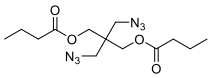
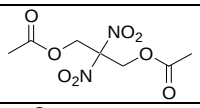
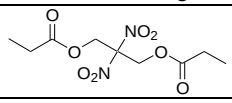
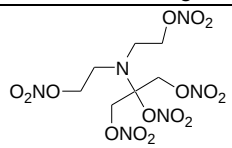
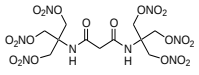
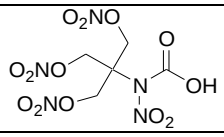
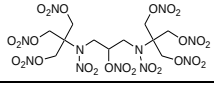
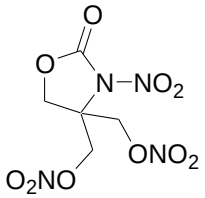
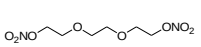
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
409	[99]		-46.2	46.8	455.8	556.9	101.1	405.98	-49.82	481.4	25.6
410	[99]		-29.9	44.9	501.8	579.1	77.3	414.9	-86.9	497	4.8
411	[99]		-56.7	54.2	727.2	1090.9	363.7	714.8	-12.4	902.9	175.7
412	[99]		-38.3	51.3	812.5	1082.5	270	669.99	-142.51	876.2	63.7
413	[99]		-38.3	51.3	844.4	1082.5	238.1	669.99	-174.41	876.2	31.8
414	[99]		-53.3	49.4	390.7	439.9	49.2	428.52	37.82	434.2	43.5
415	[99]		-30.9	44.2	456.7	468.6	11.9	383.97	-72.73	426.3	30.4
416	[99]		-42.7	54.8	782.1	965.6	183.5	692.53	-89.57	829.1	47
417	[99]		-81.7	56.0	382.8	637.9	255.1	504.13	121.33	571	188.2
418	[99]		-79.9	58.3	359.4	695.9	336.5	526.45	167.05	611.2	251.8
419	[99]		-53.3	51.8	476.8	629.5	152.7	459.32	-17.48	544.4	67.6
420	[99]		-33.9	50.9	511.5	709.7	198.2	490.56	-20.94	600.1	88.6
421	[99]		-63.7	61.9	476.2	659.1	182.9	557.65	81.45	608.4	132.2
422	[99]		-38.4	56.8	285	742.7	457.7	566.57	281.57	654.6	369.6

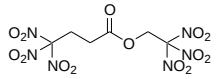
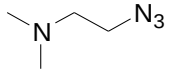
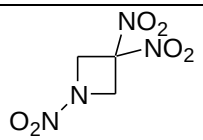
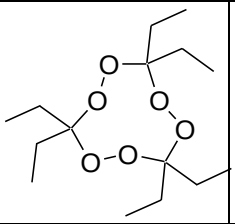
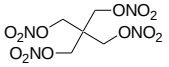
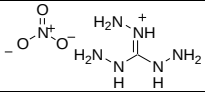
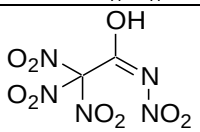
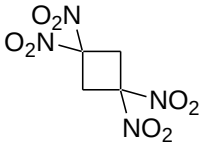
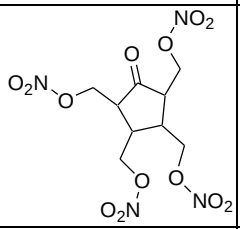
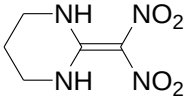
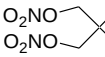
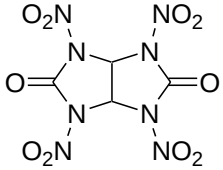
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
423	[99]		-63.7	61.9	462.8	659.1	196.3	557.65	94.85	608.4	145.6
424	[100]		-101.6	69.6	396.8	544.9	148.1	538.26	141.46	541.6	144.8
425	[100]		-106.4	66.1	763	784.7	21.7	772.08	9.08	778.4	15.4
426	[101]		-91.0	58.7	404.03	366.9	-37.13	325.54	-78.49	346.2	57.83
427	[101]		-24.7	43.2	499.91	234.2	-265.71	236.44	-263.47	235.3	264.61
428	[101]		-21.1	36.9	451.38	340.8	-110.58	200.28	-251.1	270.5	180.88
429	[101]		-4.1	36.0	648.95	446.6	-202.35	206.88	-442.07	326.7	322.25
447	[102]		-18.6	43.4	159.8	313.1	153.3	66.11	-93.69	189.6	29.8
448	[103]		-43.1	58.7	1111.5	1085.5	-26	914.35	-197.15	999.9	111.6
454	[38]		-67.2	39.2	-38.9	11.1	50	156.76	195.66	83.9	122.8
455	[38]		-62.5	17.3	-252.3	-216.1	36.2	-195.28	57.02	-205.7	46.6
456	[24]		-114.2	66.6	285.6	278.6	-7	258.07	-27.53	268.3	17.3

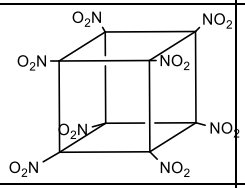
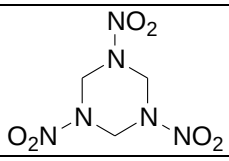
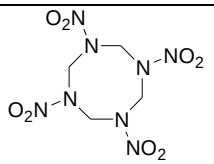
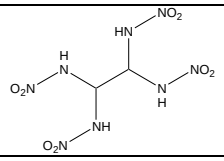
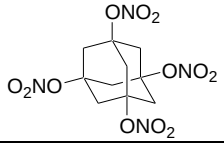
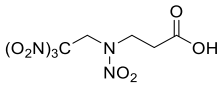
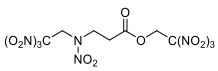
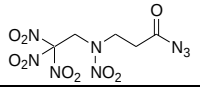
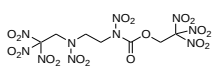
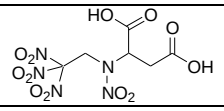
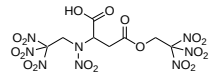
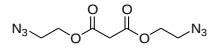
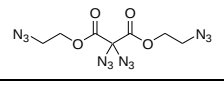
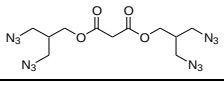
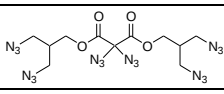
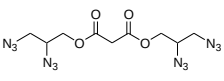
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
457	[105]		-18.4	32.2	133.7	61.3	-72.4	-13.79	-147.49	23.8	109.9
458	[105]		-30.4	35.4	276.6	185.4	-91.2	-45.93	-322.53	69.7	206.9
459	[105]		-39.0	34.1	-7.2	-3.4	3.8	-25.84	-18.64	-14.6	7.4
461	[105]		-17.0	37.2	113.6	179.5	65.9	97.25	-16.35	138.4	24.8
462	[105]		-51.9	54.5	946.3	1056.6	110.3	867.77	-78.53	962.2	15.9
463	[105]		-69.5	60.9	1100.2	1180.7	80.5	835.63	-264.57	1008.2	92
465	[106]		-37.2	65.1	252	238.1	-13.9	111.87	-140.13	175	77
469	[107]		-64.5	79.0	1258	1596.1	338.1	1130.13	-127.87	1363.1	105.1
470	[107]		-22.2	48.6	441	600.8	159.8	248.57	-192.43	424.7	16.3
474	[108]		-76.3	21.1	-262.4	-201.8	60.6	-118.62	143.78	-160.2	102.2
475	[109]		-76.3	21.1	-0.5	-201.8	-201.3	-118.62	-118.12	-160.2	159.7

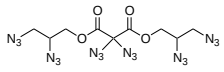
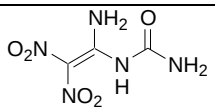
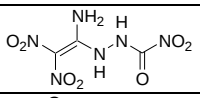
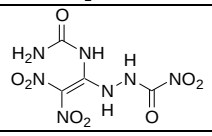
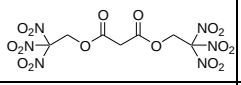
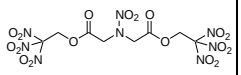
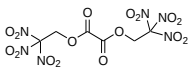
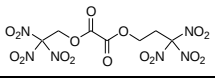
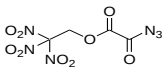
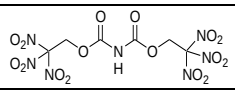
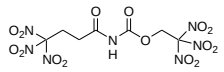
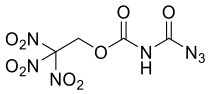
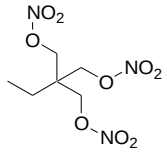
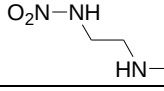
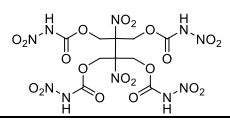
2.5.3 The heat of formation of non-aromatic compounds

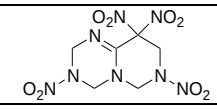
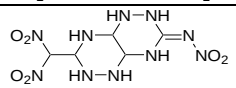
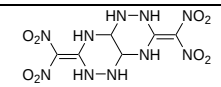
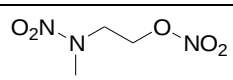
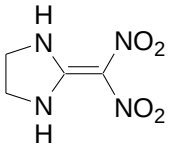
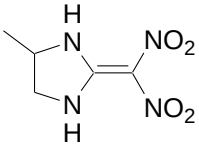
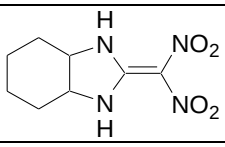
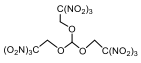
Table 96. Table summarizing the structural formulae, empirical formulae and the heat of formation of the non-aromatic compounds.

		Compound	Ω_{CO2} [%]	N%	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^0(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^0(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
1	[22]		-23.2	27.1	-367	-379.3	-12.3	-354.36	12.64	-366.8	0.2
2	[22]		-2.8	24.7	-368	-332.1	35.9	-431.07	-63.07	-381.6	-13.6
3	[23] [24]		-42.7	21.4	-541	-35.5	505.5	-372.31	168.69	-203.9	337.1
26	[35]		-124.3	31.1	-242	-65.3	176.7	-108.82	133.18	-87.1	154.9
27	[35]		-144.8	28.2	-296	-114.5	181.5	-150.1	145.9	-132.3	163.7
28	[35]		-161.8	25.8	-349	-163.6	185.4	-191.38	157.62	-177.5	171.5
29	[35]		-70.3	11.2	-872	-810.8	61.2	-684.66	187.34	-747.7	124.3
30	[35]		-97.8	10.1	-926	-859.9	66.1	-725.94	200.06	-792.9	133.1
31	[36]		-29.5	20.0	-530.6	-543.4	-12.8	-843.93	-313.33	-693.7	-163.1
32	[36]		-27.8	19.3	-1044.4	-1024.8	19.6	-1095.99	-51.59	-1060.4	-16
33	[36]		-15.6	20.3	-614.8	-683.3	-68.5	-869.55	-254.75	-776.4	-161.6
34	[36]		-12.5	21.9	-637.8	-695.5	-57.7	-1180.47	-542.67	-938	-300.2
35	[36]		-17.0	19.9	-752.4	-318.5	433.9	-314.69	437.71	-316.6	435.8
44	[38]		-66.6	11.7	-656.9	-605.8	51.1	-717.57	-60.67	-661.7	-4.8

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
45	[38]		-4.1	21.8	-421.7	-516.8	-95.1	-482.52	-60.82	-499.7	-78
46	[24]		-182.2	49.1	277	279.1	2.1	239.44	-37.56	259.3	-17.7
48	[41]		-16.7	29.2	62.2	16.2	-46	-8.72	-70.92	3.7	-58.5
49	[42]		-198.3	0.0	-583.8	-744.8	-161	-1104.05	-520.25	-924.4	-340.6
51	[44]		-10.1	17.7	-538.48	-497.1	41.38	-727.2	-188.72	-612.2	-73.72
53	[38]		-33.5	58.7	-69.2	-1073.4	-1004.2		69.2	-536.7	-467.5
54	[38]		30.1	29.3	-134.7	-78.2	56.5	-216.2	-81.5	-147.2	-12.5
55	[38]		-13.6	23.7	-84	124.6	208.6	-92.15	-8.15	16.2	100.2
56	[38]		-45.8	-8.3	-676.2	-698.4	-22.2	-892.82	-216.62	-795.6	-119.4
59	[47]		-85.0	29.8	61.8	-80.6	-142.4	159.51	97.71	39.5	-22.3
60	[38]		-26.6	15.5	-560.7	-629.2	-68.5	-736.45	-175.75	-682.8	-122.1
61	[38]		5.0	34.8	41.8	-76.1	-117.9	-30.47	-72.27	-53.3	-95.1

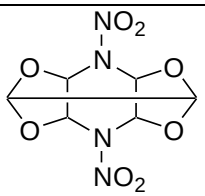
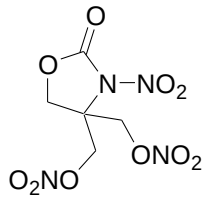
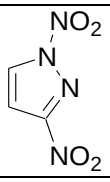
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
62	[38]		0.0	24.1	594	407.3	-186.7	585.82	-8.18	496.6	-97.4
64	[26]		-21.6	37.8	86.3	40.2	-46.1	77.92	-8.38	59.1	-27.2
65	[38]		-21.6	37.8	92.8	65.1	-27.7	81.13	-11.67	73.1	-19.7
66	[38]		5.9	41.5	48.5	-179.6	-228.1	75.67	27.17	-52	-100.5
77	[49]		-58.9	14.7	-581	-446.9	134.1	-568.79	12.21	-507.8	73.2
78	[50]		-18.8	23.6	-463.1	-389.9	73.2	-472.89	-9.79	-431.4	31.7
79	[50]		-7.0	24.4	-398.4	-369.2	29.2	-446.39	-47.99	-407.8	-9.4
80	[50]		-19.9	34.8	98.3	259.4	161.1	138.42	40.12	198.9	100.6
81	[50]		0.0	26.9	-292.8	-224.6	68.2	-389.62	-96.82	-307.1	-14.3
82	[50]		-16.4	20.5	-824.5	-782	42.5	-840.91	-16.41	-811.5	13
83	[50]		-6.3	22.2	-777.5	-666.2	111.3	-814.41	-36.91	-740.3	37.2
84	[51]		99.1	34.7	-176	174	350	-58.79	117.21	57.6	233.6
85	[51]		-69.1	51.8	542	936.5	394.5	528.06	-13.94	732.3	190.3
86	[51]		-109.4	44.2	466	838.2	372.2	443.69	-22.31	640.9	174.9
87	[51]		-86.5	54.5	1187	1600.6	413.6	1030.54	-156.46	1315.6	128.6
88	[51]		-90.8	47.7	440	887.3	447.3	484.97	44.97	686.1	246.1

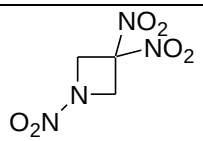
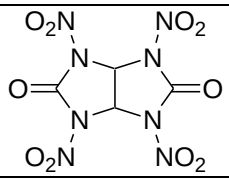
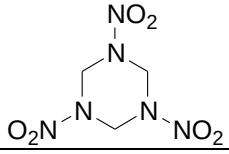
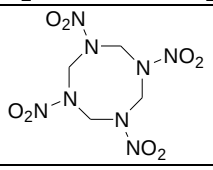
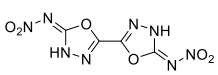
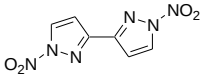
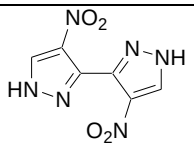
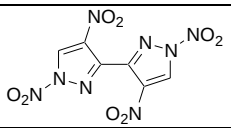
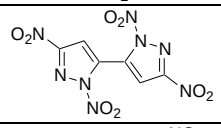
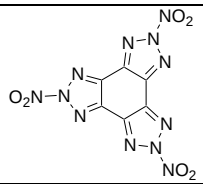
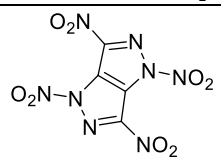
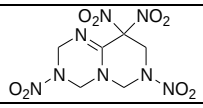
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
89	[51]		-70.0	58.1	1160	1649.8	489.8	1071.82	-88.18	1360.8	200.8
90	[52]		-29.3	36.6	-277	-162.3	114.7	-20.66	256.34	-91.5	185.5
91	[52]		-6.8	35.6	-153	-186.6	-33.6	-11.74	141.26	-99.2	53.8
92	[52]		-14.3	35.1	-355	-331.9	23.1	-7.5	347.5	-169.7	185.3
94	[53]		-3.7	19.5	-759	-813.8	-54.8	-736.45	22.55	-775.1	-16.1
95	[53]		-6.3	22.2	-691	-476	215	-700.32	-9.32	-588.2	102.8
113	[57]		7.7	20.2	-668	-694.1	-26.1	-715.81	-47.81	-705	-37
114	[57]		-3.7	19.5	-705.2	-940.6	-235.4	-736.45	-31.25	-838.5	-133.3
115	[57]		0.0	30.2	-170.5	-287.4	-116.9	-131	39.5	-209.2	-38.7
116	[57]		5.6	22.7	-775.2	-509.4	265.8	-662.34	112.86	-585.9	189.3
117	[57]		-9.3	22.8	-645.2	-693.8	-48.6	-478.28	166.92	-586	59.2
118	[57]		-2.7	33.5	-271	-118.5	152.5	-77.53	193.47	-98	173
119	[26]		-50.5	15.6	-480	-451.2	28.8	-604.86	-124.86	-528	-48
121	[26]		-32.0	37.3	-103.8	-60.9	42.9	0.81	104.61	-30	73.8
130	[60]		-16.2	23.7	-1441.5	-1355.9	85.6	-1051.07	390.43	-1203.5	238

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
366	[96]		-40.0	35.0	124.76	223.3	98.54	166.22	41.46	194.8	70.04
367	[96]		-47.0	45.7	304.2	-66.5	-370.7	184.42	-119.78	59	-245.2
368	[96]				348.2	35	-313.2	270.09	-78.11	152.5	-195.7
460	[26]		-43.6	25.5	-150	-125.7	24.3	-191.46	-41.46	-158.6	-8.6
471	[47]		-64.3	32.2	-5.7	-56	-50.3	75.27	80.97	9.6	15.3
472	[47]		-85.0	29.8	53.3	-80.6	-133.9	34.29	-19.01	-23.2	-76.5
473	[47]		-126.2	24.6	107.4	-96.6	-204	39.01	-68.39	-28.8	-136.2
482	[110]		10.1	22.8	-1021	-519.9	501.1	-781.13	239.87	-650.5	370.5

2.5.4 The heat of formation cyclic nitramines

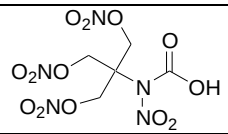
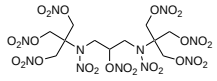
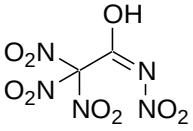
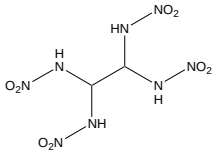
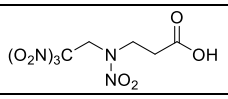
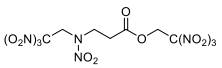
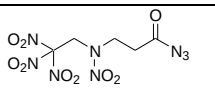
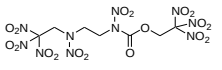
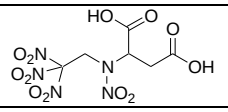
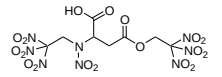
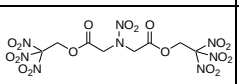
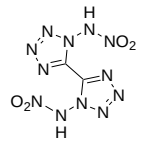
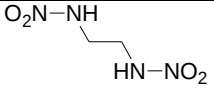
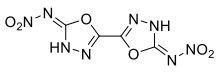
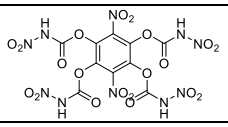
Table 97. Table summarizing the structural formulae, empirical formulae and the heat of formation of the cyclic nitramines.

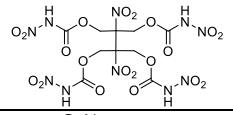
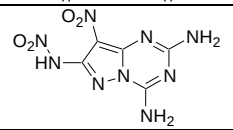
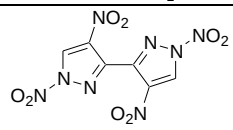
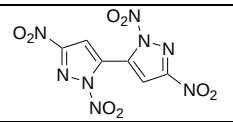
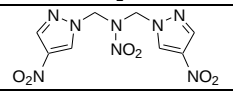
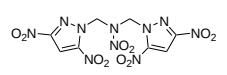
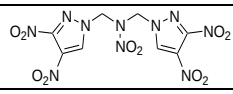
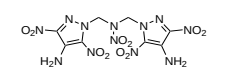
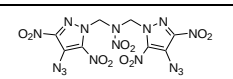
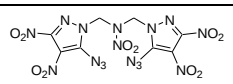
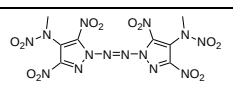
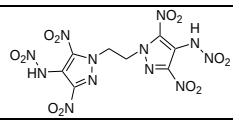
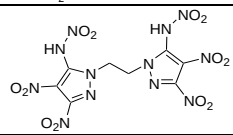
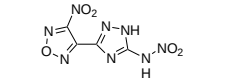
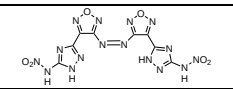
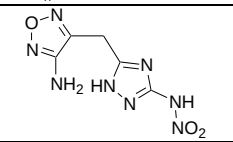
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
3	[23] [24]		-42.7	21.4	-541	-35.5	505.5	-372.31	168.69	-203.9	337.1
35	[36]		-17.0	19.9	-752.4	-318.5	433.9	-314.69	437.71	-316.6	435.8
37	[37]		-30.4	35.4	189.1	106	-83.1	137.86	-51.24	121.9	-67.2

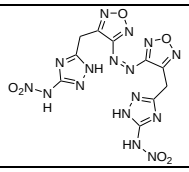
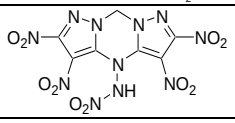
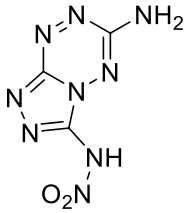
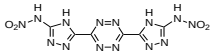
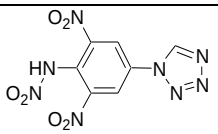
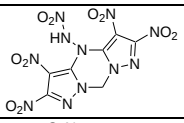
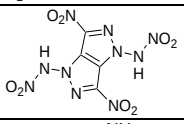
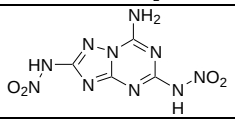
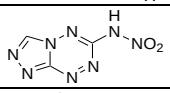
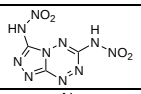
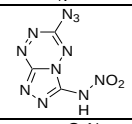
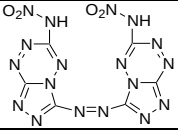
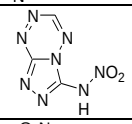
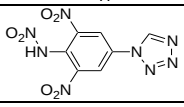
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
48	[41]		-16.7	29.2	62.2	16.2	-46	-8.72	-70.92	3.7	-58.5
61	[38]		5.0	34.8	41.8	-76.1	-117.9	-30.47	-72.27	-53.3	-95.1
64	[26]		-21.6	37.8	86.3	40.2	-46.1	77.92	-8.38	59.1	-27.2
65	[38]		-21.6	37.8	92.8	65.1	-27.7	81.13	-11.67	73.1	-19.7
123	[58]		-18.6	43.4	278.6	190.5	-88.1	66.11	-212.49	128.3	-150.3
139	[64]		-71.4	37.5	413.9	321.2	-92.7	340.57	-73.33	330.9	-83
142	[64]		-71.4	37.5	221	149.5	-71.5	299.39	78.39	224.4	3.4
143	[64]		-25.5	35.7	407.1	304.4	-102.7	296.11	-110.99	300.3	-106.8
144	[64]		-25.5	35.7	444.1	304.4	-139.7	296.11	-147.99	300.3	-143.8
338	[96]		-28.6	50.0	710	1109.3	399.3	814.41	104.41	961.9	251.9
342	[96]		0.0	38.9	550.9	295.8	-255.1	291.93	-258.97	293.9	-257
366	[96]		-40.0	35.0	124.76	223.3	98.54	166.22	41.46	194.8	70.04

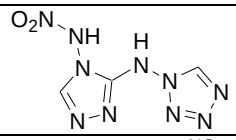
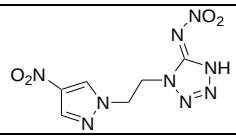
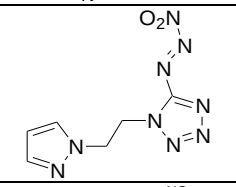
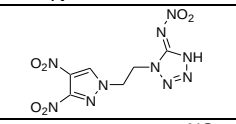
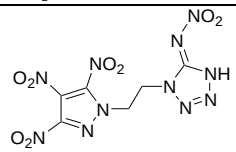
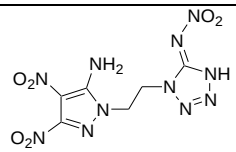
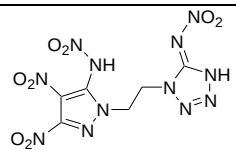
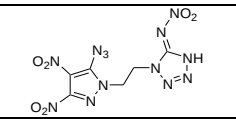
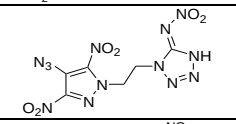
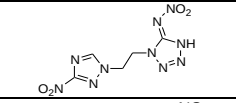
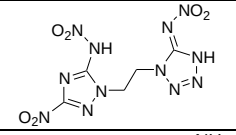
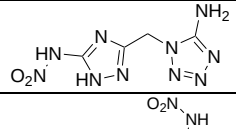
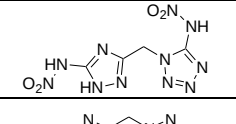
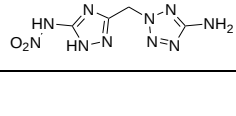
2.5.5 The heat of formation of acyclic nitramines

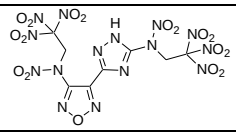
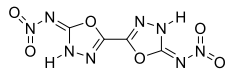
Table 98. Table summarizing the structural formulae, empirical formulae and the heat of formation of the acyclic nitramines.

		Compound	Ω_{CO2} [%]	N%	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^0(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^0(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
33	[36]		-15.6	20.3	-614.8	-683.3	-68.5	-869.55	-254.75	-776.4	-161.6
34	[36]		-12.5	21.9	-637.8	-695.5	-57.7	-1180.47	-542.67	-938	-300.2
54	[38]		30.1	29.3	-134.7	-78.2	56.5	-216.2	-81.5	-147.2	-12.5
66	[38]		5.9	41.5	48.5	179.6	131.1	75.67	27.17	127.6	79.1
78	[50]		-18.8	23.6	-463.1	-389.9	73.2	-472.89	-9.79	-431.4	31.7
79	[50]		-7.0	24.4	-398.4	-369.2	29.2	-446.39	-47.99	-407.8	-9.4
80	[50]		-19.9	34.8	98.3	259.4	161.1	138.42	40.12	198.9	100.6
81	[50]		0.0	26.9	-292.8	-224.6	68.2	-389.62	-96.82	-307.1	-14.3
82	[50]		-16.4	20.5	-824.5	-782	42.5	-840.91	-16.41	-811.5	13
83	[50]		-6.3	22.2	-777.5	-666.2	111.3	-814.41	-36.91	-740.3	37.2
95	[53]		-6.3	22.2	-691	-476	215	-700.32	-9.32	-588.2	102.8
109	[56]		-6.2	65.1	932.1	810.1	-122	661.23	-270.87	735.7	-196.4
121	[26]		-32.0	37.3	-103.8	-60.9	42.9	0.81	104.61	-30	73.8
123	[58]		-18.6	43.4	278.6	190.5	-88.1	66.11	-212.49	128.3	-150.3
129	[60]		-5.5	24.0	-1275	-1125.2	149.8	-854.39	420.61	-989.8	285.2

		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
130	[60]		-16.2	23.7	-1441.5	-1355.9	85.6	-1051.07	390.43	-1203.5	238
136	[62]		-53.3	49.4	314	331	17	439.87	125.87	385.4	71.4
143	[64]		-25.5	35.7	407.1	304.4	-102.7	296.11	-110.99	300.3	-106.8
144	[64]		-25.5	35.7	444.1	304.4	-139.7	296.11	-147.99	300.3	-143.8
150	[65]		-71.8	35.9	377.2	367.6	-9.6	362.89	-14.31	365.2	-12
151	[65]		-35.8	34.8	388	350.8	-37.2	311.6	-76.4	331.2	-56.8
152	[65]		-35.8	34.8	398	350.8	-47.2	311.6	-86.4	331.2	-66.8
153	[65]		-37.0	38.9	486.4	371.6	-114.8	356.24	-130.16	363.9	-122.5
154	[65]		-26.4	46.3	1108.2	1220.5	112.3	884.26	-223.94	1052.4	-55.8
155	[65]		-26.4	46.3	1118.7	1220.5	101.8	884.26	-234.44	1052.4	-66.3
168	[68]6		-22.8	40.0	789.2	849.9	60.7	392.65	-396.55	621.3	-167.9
184	[70]		-24.2	36.4	380.6	305.2	-75.4	317.31	-63.29	311.3	-69.3
190	[70]		-24.2	36.4	368.1	305.2	-62.9	317.31	-50.79	311.3	-56.8
197	[73]		-26.4	46.3	524.66	322.8	-201.86	289.91	-234.75	306.4	-218.26
198	[73]		-45.7	53.3	1274.4	1121.9	-152.5	691.89	-582.51	906.9	-367.5
199	[73]		-70.8	49.5	449	364.6	-84.4	313.82	-135.18	339.2	-109.8

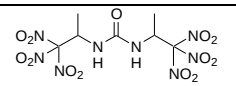
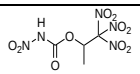
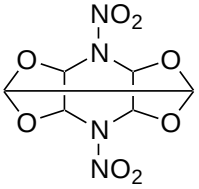
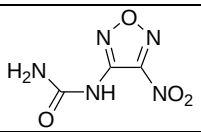
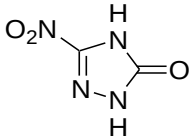
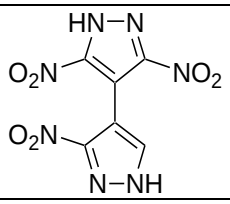
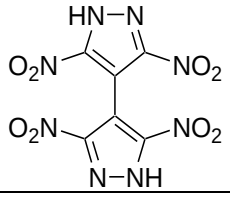
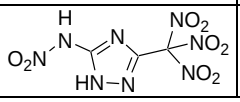
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
200	[73]		-64.2	50.0	1206.2	1072.8	-133.4	650.61	-555.59	861.7	-344.5
217	[75]		-21.9	38.4	521.6	399	-122.6	441.47	-80.13	420.2	-101.4
239	[81]		-44.6	64.0	634.3	625.7	-8.6	546.64	-87.66	586.2	-48.1
272	[91]		-47.6	58.3	1336	1220.8	-115.2	828.13	-507.87	1024.5	-311.5
294	[92]		-54.0	37.8	495.4	449.9	-45.5	377.18	-118.22	413.5	-81.9
334	[96]		-21.9	38.4	521.5	521.7	0.2	441.47	-80.03	481.6	-39.9
344	[96]		-5.0	44.0	595.2	270.7	-324.5	398.87	-196.33	334.8	-260.4
346	[96]		-37.5	54.7	544.9	500.7	-44.2	524.45	-20.45	512.6	-32.3
351	[96]		-43.9	61.5	675.1	567.8	-107.3	524.32	-150.78	546.1	-129
352	[96]		-19.8	57.9	740.9	709.3	-31.6	555.56	-185.34	632.4	-108.5
357	[96]		-32.3	69.1	951.8	1056.3	104.5	810.65	-141.15	933.5	-18.3
358	[96]		-36.9	64.6	2037.8	1595	-442.8	1116.25	-921.55	1355.6	-682.2
360	[96]		-43.9	61.5	647.8	659.7	11.9	524.32	-123.48	592	-55.8
389	[99]		-54.0	37.8	495.4	541.8	46.4	377.18	-118.22	459.5	-35.9

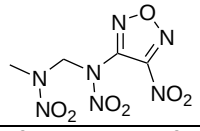
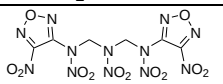
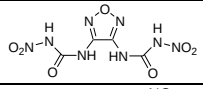
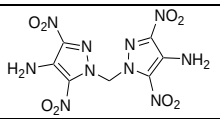
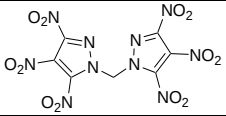
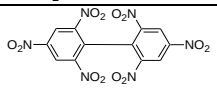
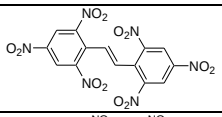
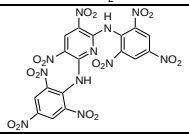
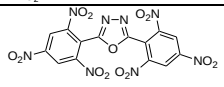
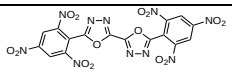
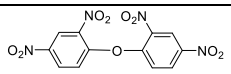
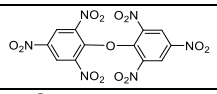
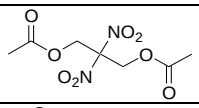
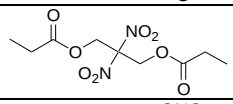
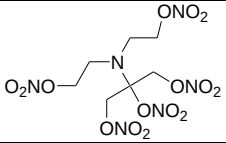
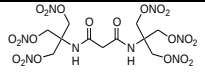
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399	[99]		-45.3	66.0	923.3	787.3	-136	630.03	-293.27	708.7	-214.6
402	[99]		-68.4	46.8	463	602.4	139.4	405.89	-57.11	504.1	41.1
403	[99]		-91.1	53.2	522.3	818.5	296.2	475.6	-46.7	647.1	124.8
411	[99]		-45.8	44.6	485.6	594	108.4	383.66	-101.94	488.8	3.2
414	[99]		-29.0	42.9	516.3	585.6	69.3	361.43	-154.87	473.5	-42.8
415	[99]		-46.2	46.8	455.8	556.9	101.1	405.98	-49.82	481.4	25.6
416	[99]		-29.9	44.9	501.8	579.1	77.3	414.9	-86.9	497	-4.8
418	[99]		-38.3	51.3	812.5	1082.5	270	669.99	-142.51	876.2	63.7
419	[99]		-38.3	51.3	844.4	1082.5	238.1	669.99	-174.41	876.2	31.8
425	[99]		-53.3	51.8	476.8	629.5	152.7	459.32	-17.48	544.4	67.6
426	[99]		-33.9	50.9	511.5	709.7	198.2	490.56	-20.94	600.1	88.6
427	[99]		-63.7	61.9	476.2	659.1	182.9	557.65	81.45	608.4	132.2
428	[99]		-38.4	56.8	285	742.7	457.7	566.57	281.57	654.6	369.6
429	[99]		-63.7	61.9	462.8	659.1	196.3	557.65	94.85	608.4	145.6

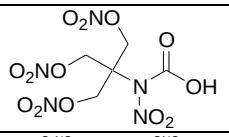
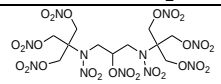
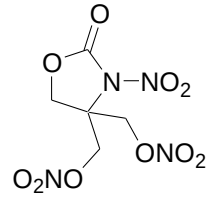
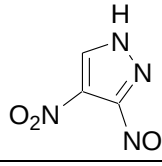
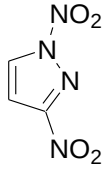
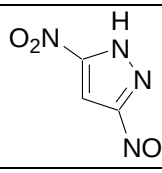
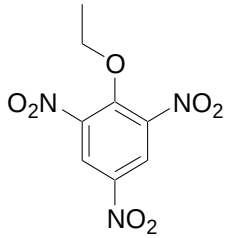
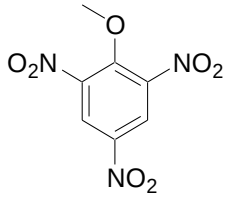
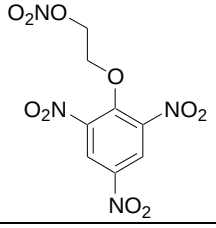
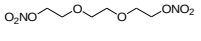
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
435	[101]		-4.1	36.0	648.95	446.6	-202.35	206.88	-442.07	326.7	-322.25
453	[102]		-18.6	43.4	159.8	313.1	153.3	66.11	-93.69	189.6	29.8

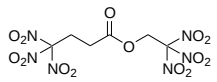
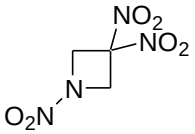
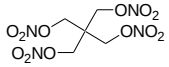
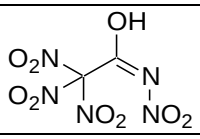
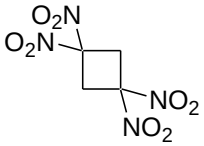
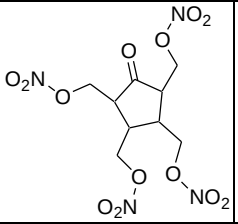
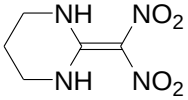
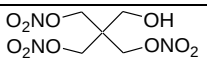
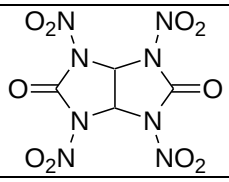
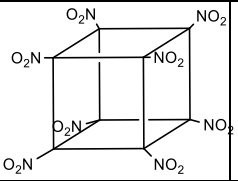
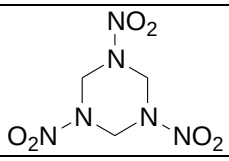
2.5.6 The heat of formation of molecules containing nitro groups

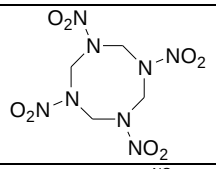
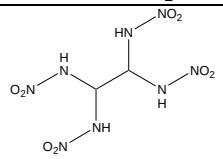
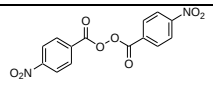
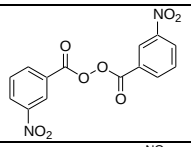
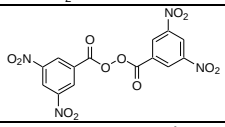
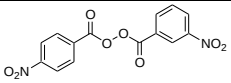
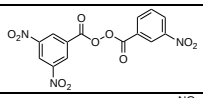
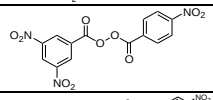
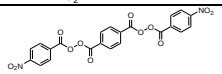
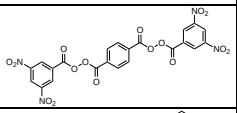
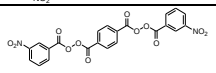
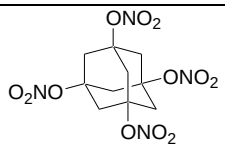
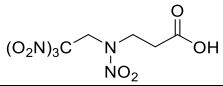
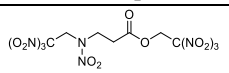
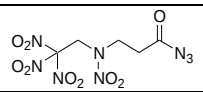
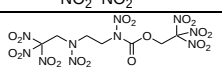
Table 99. Table summarizing the structural formulae, empirical formulae and the heat of formation of the molecules containing nitro groups.

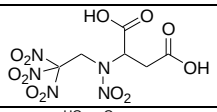
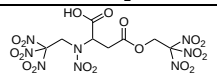
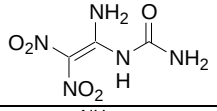
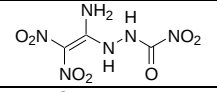
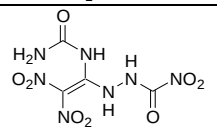
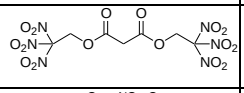
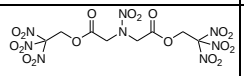
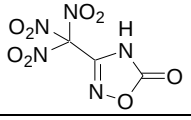
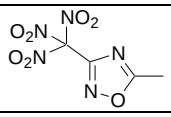
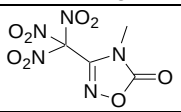
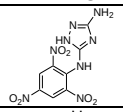
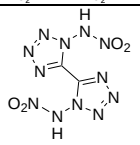
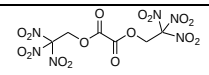
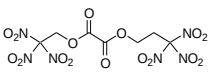
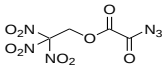
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
1	[22]		-23.2	27.1	-367	-379.3	12.3	-354.36	12.64	-366.8	0.2
2	[22]		-2.8	24.7	-368	-332.1	35.9	-431.07	63.07	-381.6	-13.6
3	[23] [24]		-42.7	21.4	-541	-35.5	505.5	-372.31	168.69	-203.9	337.1
4	[25]		-32.4	40.5	63	-134.6	197.6	49.68	13.32	-42.5	-105.5
5	[23] [26]		-24.6	43.1	-97	-163.7	66.7	48.9	145.9	-57.4	39.6
6	[27]		-44.6	36.4	224.9	141.1	83.8	277.16	52.26	209.1	-15.8
7	[27]		-25.5	35.7	227.8	132.6	95.2	254.93	27.13	193.8	-34
9	[28]		5.8	40.3	269	278.6	9.6	173.26	95.74	225.9	-43.1

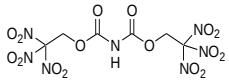
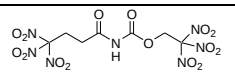
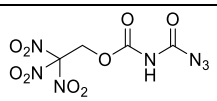
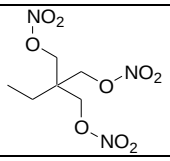
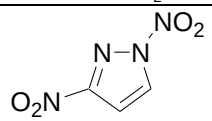
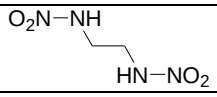
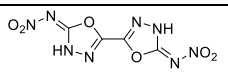
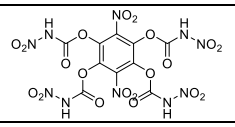
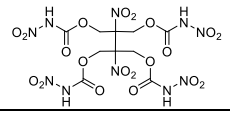
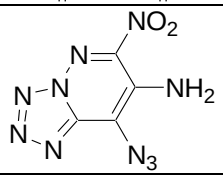
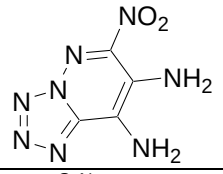
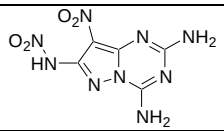
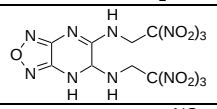
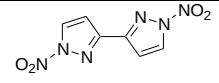
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
10	[29]		-21.3	37.3	265	172.9	92.1	83.91	181.09	128.4	-136.6
11	[29]		-7.3	38.5	603	391.8	211.2	195.66	407.34	293.7	-309.3
16	[25]		-17.4	34.1	-22	-183.9	161.9	116.31	138.31	-33.8	-11.8
17	[31]		-40.2	39.1	205	224	19	320.11	115.11	272.1	67.1
18	[31]		-11.5	33.5	379	186.3	192.7	231.01	147.99	208.7	-170.3
19	[32] [26]		-52.8	19.8	61.1	100.3	39.2	48.67	12.43	74.5	13.4
20	[32]		-67.5	18.7	78.2	200.8	122.6	86.64	8.44	143.7	65.5
21	[32]		-55.4	24.8	43.7	208.3	164.6	265.8	222.1	237.1	193.4
22	[32] [33]		-55.3	22.8	266.55	232.1	34.45	114.41	152.14	173.3	-93.25
23	[32]		-57.1	25.0	197.6	409.9	212.3	180.15	17.45	295	97.4
24	[34]		-82.2	16.0	-168.1	55.1	223.2	-39.09	129.01	8	176.1
25	[34]		-47.3	19.1	-132.9	-69	63.9	-83.55	49.35	-76.3	56.6
29	[35]		-70.3	11.2	-872	-810.8	61.2	-684.66	187.34	-747.7	124.3
30	[35]		-97.8	10.1	-926	-859.9	66.1	-725.94	200.06	-792.9	133.1
31	[36]		-29.5	20.0	-530.6	-543.4	12.8	-843.93	313.33	-693.7	-163.1
32	[36]		-27.8	19.3	-1044.4	-1024.8	19.6	-1095.99	51.59	-1060.4	-16

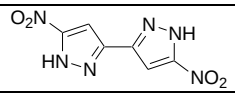
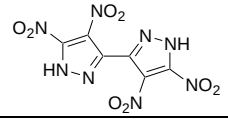
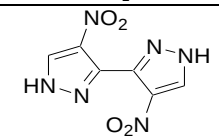
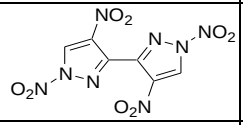
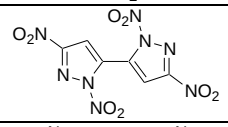
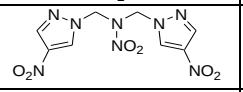
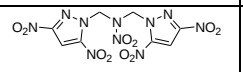
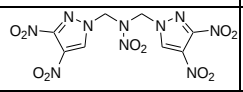
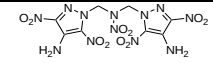
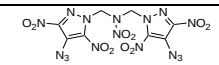
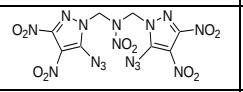
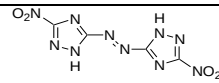
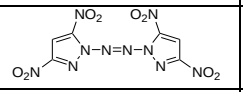
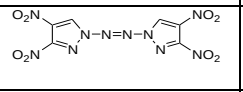
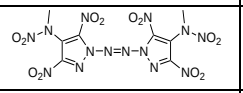
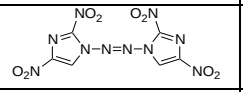
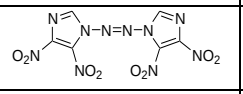
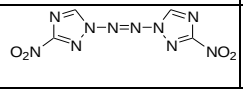
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
33	[36]		-15.6	20.3	-614.8	-683.3	68.5	-869.55	254.75	-776.4	-161.6
34	[36]		-12.5	21.9	-637.8	-695.5	57.7	-1180.47	542.67	-938	-300.2
35	[36]		-17.0	19.9	-752.4	-318.5	433.9	-314.69	437.71	-316.6	435.8
36	[37]		-30.4	35.4	124.3	29.3	95	117.27	7.03	73.3	-51
37	[37]		-30.4	35.4	189.1	106	83.1	137.86	51.24	121.9	-67.2
38	[37]		-30.4	35.4	73.2	29.3	43.9	117.27	44.07	73.3	0.1
39	[26]		-77.8	16.3	-154.5	-222.2	67.7	-170.83	16.33	-196.5	-42
40	[38]		-62.5	17.3	-187.2	-197.6	10.4	-150.19	37.01	-173.9	13.3
41	[38]		-45.3	17.6	-277.4	-277.3	0.1	-313.81	36.41	-295.6	-18.2
44	[38]		-66.6	11.7	-656.9	-605.8	51.1	-717.57	60.67	-661.7	-4.8

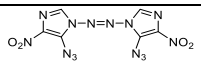
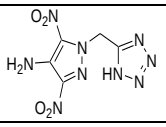
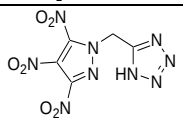
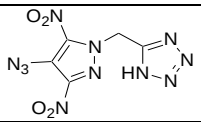
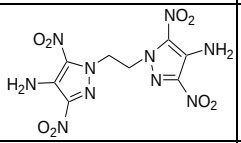
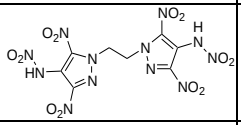
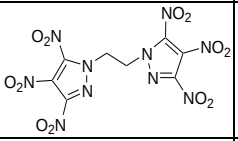
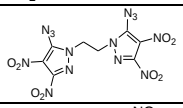
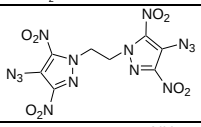
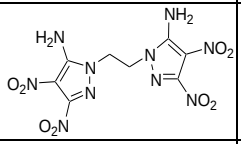
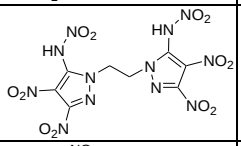
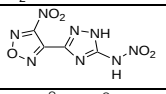
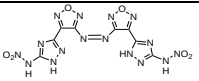
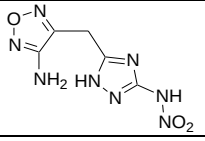
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
45	[38]		-4.1	21.8	-421.7	-516.8	95.1	-482.52	60.82	-499.7	-78
48	[41]		-16.7	29.2	62.2	16.2	46	-8.72	70.92	3.7	-58.5
51	[44]		-10.1	17.7	-538.48	-497.1	41.38	-727.2	188.72	-612.2	-73.72
54	[38]		30.1	29.3	-134.7	-78.2	56.5	-216.2	81.5	-147.2	-12.5
55	[38]		-13.6	23.7	-84	124.6	208.6	-92.15	8.15	16.2	100.2
56	[38]		-45.8	-8.3	-676.2	-698.4	22.2	-892.82	216.62	-795.6	-119.4
59	[47]		-85.0	29.8	61.8	-80.6	142.4	159.51	97.71	39.5	-22.3
60	[38]		-26.6	15.5	-560.7	-629.2	68.5	-736.45	175.75	-682.8	-122.1
61	[38]		5.0	34.8	41.8	-76.1	117.9	-30.47	72.27	-53.3	-95.1
62	[38]		0.0	24.1	594	407.3	186.7	585.82	8.18	496.6	-97.4
64	[26]		-21.6	37.8	86.3	40.2	46.1	77.92	8.38	59.1	-27.2

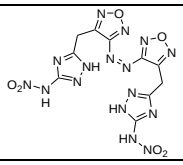
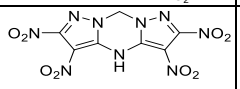
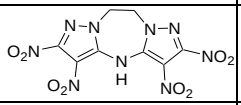
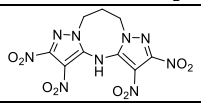
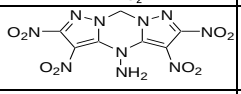
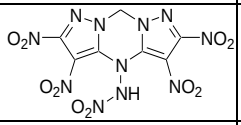
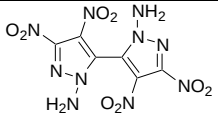
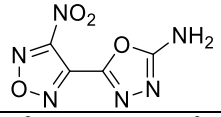
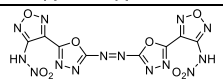
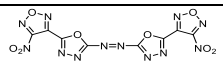
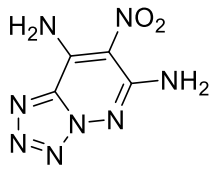
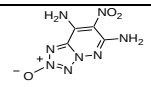
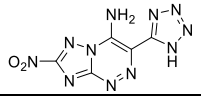
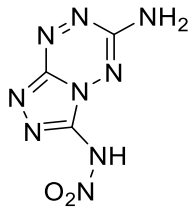
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
65	[38]		-21.6	37.8	92.8	65.1	27.7	81.13	11.67	73.1	-19.7
66	[38]		5.9	41.5	48.5	179.6	131.1	75.67	27.17	127.6	79.1
67	[48]		-115.6	8.4	-415	-353.4	61.6	-370.27	44.73	-361.8	53.2
68	[48]		-115.6	8.4	-406	353.4	759.4	-370.27	35.73	-8.4	397.6
69	[48]		-72.0	13.3	-410	-358	52	-414.73	4.73	-386.4	23.6
70	[48]		-115.6	8.4	-404	-353.4	50.6	-370.27	33.73	-361.8	42.2
71	[48]		-91.2	11.1	-405	-361.8	43.2	-392.5	12.5	-377.2	27.8
72	[48]		-91.2	11.1	-405	-361.8	43.2	-392.5	12.5	-377.2	27.8
73	[48]		-122.5	5.6	-761	-604.1	156.9	-776.91	15.91	-690.5	70.5
74	[48]		-90.1	9.6	-752	-620.9	131.1	-821.37	69.37	-721.1	30.9
75	[48]		-122.5	5.6	-752	-604.1	147.9	-776.91	24.91	-690.5	61.5
77	[49]		-58.9	14.7	-581	-446.9	134.1	-568.79	12.21	-507.8	73.2
78	[50]		-18.8	23.6	-463.1	-389.9	73.2	-472.89	9.79	-431.4	31.7
79	[50]		-7.0	24.4	-398.4	-369.2	29.2	-446.39	47.99	-407.8	-9.4
80	[50]		-19.9	34.8	98.3	259.4	161.1	138.42	40.12	198.9	100.6
81	[50]		0.0	26.9	-292.8	-224.6	68.2	-389.62	96.82	-307.1	-14.3

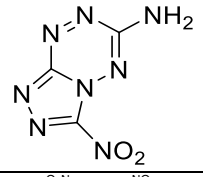
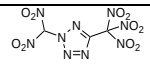
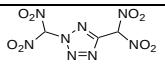
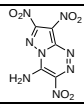
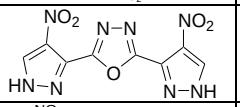
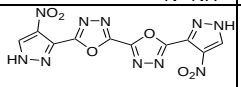
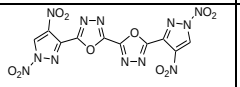
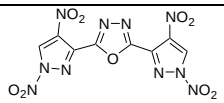
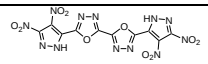
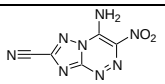
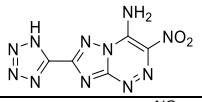
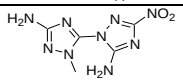
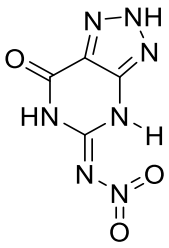
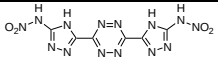
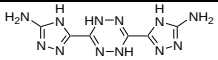
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
82	[50]		-16.4	20.5	-824.5	-782	42.5	-840.91	16.41	-811.5	13
83	[50]		-6.3	22.2	-777.5	-666.2	111.3	-814.41	36.91	-740.3	37.2
90	[52]		-29.3	36.6	-277	-162.3	114.7	-20.66	256.34	-91.5	185.5
91	[52]		-6.8	35.6	-153	-186.6	33.6	-11.74	141.26	-99.2	53.8
92	[52]		-14.3	35.1	-355	-331.9	23.1	-7.5	347.5	-169.7	185.3
94	[53]		-3.7	19.5	-759	-813.8	54.8	-736.45	22.55	-775.1	-16.1
95	[53]		-6.3	22.2	-691	-476	215	-700.32	9.32	-588.2	102.8
96	[54]		10.2	29.8	142	-257.9	399.9	-171.82	313.82	-214.9	-356.9
97	[54]		-17.2	30.0	43	78.1	35.1	-59.9	102.9	9.1	-33.9
98	[54]		-9.6	28.1	133	-23.5	156.5	-183.34	316.34	-103.4	-236.4
105	[55]		-67.1	36.1	147.4	299	151.6	325.48	178.08	312.2	164.8
109	[56]		-6.2	65.1	932.1	810.1	122	661.23	270.87	735.7	-196.4
113	[57]		7.7	20.2	-668	-694.1	26.1	-715.81	47.81	-705	-37
114	[57]		-3.7	19.5	-705.2	-940.6	235.4	-736.45	31.25	-838.5	-133.3
115	[57]		0.0	30.2	-170.5	-287.4	116.9	-131	39.5	-209.2	-38.7

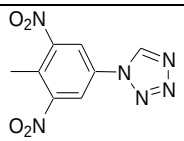
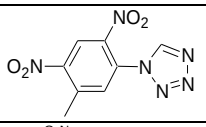
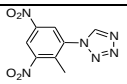
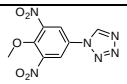
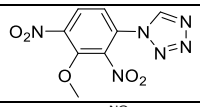
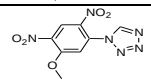
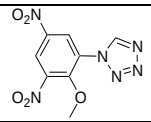
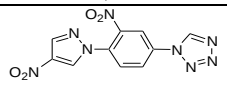
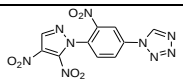
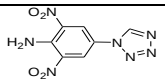
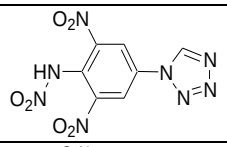
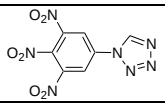
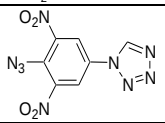
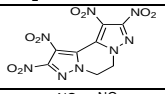
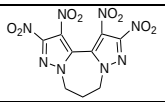
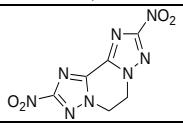
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
116	[57]		5.6	22.7	-775.2	-509.4	265.8	-662.34	112.86	-585.9	189.3
117	[57]		-9.3	22.8	-645.2	-693.8	48.6	-478.28	166.92	-586	59.2
118	[57]		-2.7	33.5	-271	-118.5	152.5	-77.53	193.47	-98	173
119	[26]		-50.5	15.6	-480	-451.2	28.8	-604.86	124.86	-528	-48
120	[37]		-30.4	35.4	189.1	106	83.1	137.86	51.24	121.9	-67.2
121	[26]		-32.0	37.3	-103.8	-60.9	42.9	0.81	104.61	-30	73.8
123	[58]		-18.6	43.4	278.6	190.5	88.1	66.11	212.49	128.3	-150.3
129	[60]		-5.5	24.0	-1275	-1125.2	149.8	-854.39	420.61	-989.8	285.2
130	[60]		-16.2	23.7	-1441.5	-1355.9	85.6	-1051.07	390.43	-1203.5	238
131	[61]		-50.4	63.1	811.2	998.6	187.4	726.07	85.13	862.3	51.1
132	[61]		-65.3	57.1	446.5	472.9	26.4	462.06	15.56	467.5	21
136	[62]		-53.3	49.4	314	331	17	439.87	125.87	385.4	71.4
138	[63]		-23.3	35.0	110	138	28	162.52	52.52	150.3	40.3
139	[64]		-71.4	37.5	413.9	321.2	92.7	340.57	73.33	330.9	-83

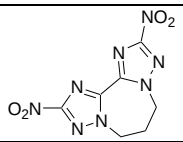
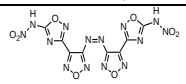
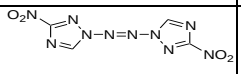
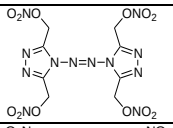
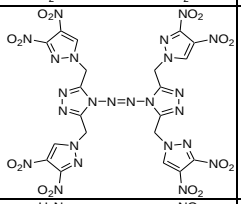
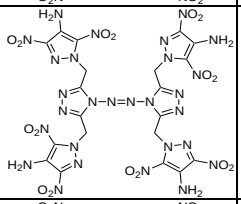
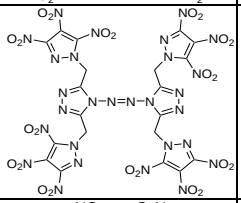
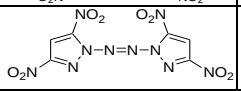
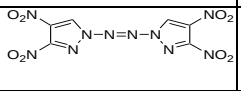
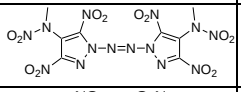
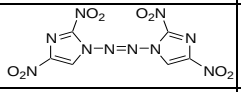
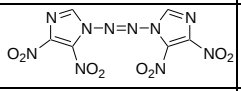
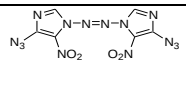
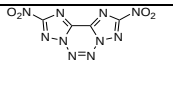
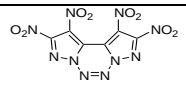
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
140	[64]		-71.4	37.5	229.1	149.5	79.6	299.39	70.29	224.4	-4.7
141	[64]		-25.5	35.7	42.7	132.6	89.9	254.93	212.23	193.8	151.1
142	[64]		-71.4	37.5	221	149.5	71.5	299.39	78.39	224.4	3.4
143	[64]		-25.5	35.7	407.1	304.4	102.7	296.11	110.99	300.3	-106.8
144	[64]		-25.5	35.7	444.1	304.4	139.7	296.11	147.99	300.3	-143.8
150	[65]		-71.8	35.9	377.2	367.6	9.6	362.89	14.31	365.2	-12
151	[65]		-35.8	34.8	388	350.8	37.2	311.6	76.4	331.2	-56.8
152	[65]		-35.8	34.8	398	350.8	47.2	311.6	86.4	331.2	-66.8
153	[65]		-37.0	38.9	486.4	371.6	114.8	356.24	130.16	363.9	-122.5
154	[65]		-26.4	46.3	1108.2	1220.5	112.3	884.26	223.94	1052.4	-55.8
155	[65]		-26.4	46.3	1118.7	1220.5	101.8	884.26	234.44	1052.4	-66.3
156	[66]		-31.5	55.1	571.7	580.1	8.4	453.47	118.23	516.8	-54.9
166	[68]4		-23.4	40.9	687.6	677.3	10.3	343.33	344.27	510.3	-177.3
167	[68]5		-23.4	40.9	687.6	677.3	10.3	343.33	344.27	510.3	-177.3
168	[68]6		-22.8	40.0	789.2	849.9	60.7	392.65	396.55	621.3	-167.9
169	[68]7		-23.4	40.9	591.8	493.3	98.5	343.33	248.47	418.3	-173.5
170	[68]8		-23.4	40.9	612.4	493.3	119.1	343.33	269.07	418.3	-194.1
171	[68]		-31.5	55.1	719.1	859.2	140.1	494.65	224.45	676.9	-42.2

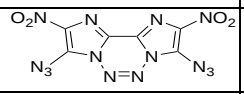
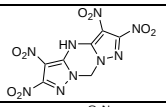
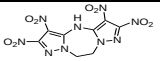
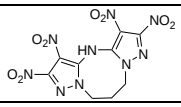
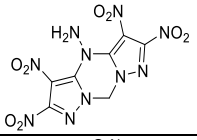
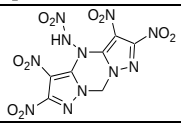
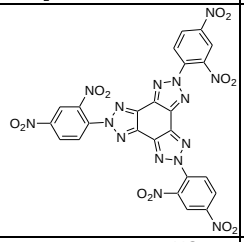
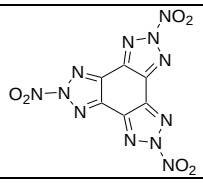
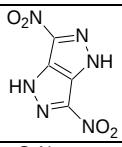
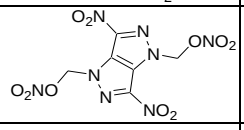
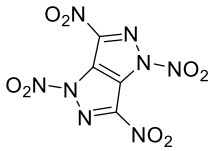
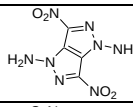
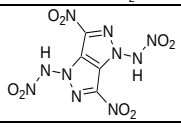
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
172	[68]		-43.1	58.7	1169.1	1379.9	210.8	960.45	208.65	1170.2	1.1
173	[69]		-53.3	49.4	390.7	347.9	42.8	428.52	37.82	388.2	-2.5
174	[69]		-30.9	44.2	456.7	376.6	80.1	383.97	72.73	380.3	-76.4
179	[69]		-42.7	54.8	782.1	873.6	91.5	692.53	89.57	783.1	1
183	[70]		-51.6	37.6	218.9	291.4	72.5	299.47	80.57	295.4	76.5
184	[70]		-24.2	36.4	380.6	305.2	75.4	317.31	63.29	311.3	-69.3
186	[70]		-22.2	32.4	306.9	253.7	53.2	210.37	96.53	232	-74.9
187	[70]		-37.7	46.2	1233.9	1140.3	93.6	827.49	406.41	983.9	-250
188	[70]		-37.7	46.2	1013.9	1140.3	126.4	827.49	186.41	983.9	-30
189	[70]		-51.6	37.6	237.9	291.4	53.5	299.47	61.57	295.4	57.5
190	[70]		-24.2	36.4	368.1	305.2	62.9	317.31	50.79	311.3	-56.8
197	[73]		-26.4	46.3	524.66	322.8	201.86	289.91	234.75	306.4	-218.26
198	[73]		-45.7	53.3	1274.4	1121.9	152.5	691.89	582.51	906.9	-367.5
199	[73]		-70.8	49.5	449	364.6	84.4	313.82	135.18	339.2	-109.8

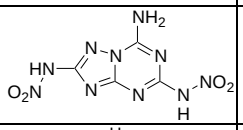
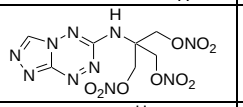
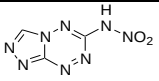
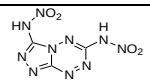
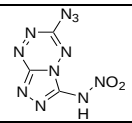
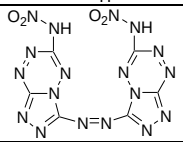
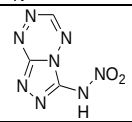
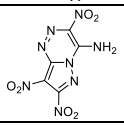
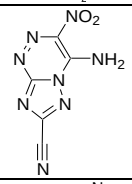
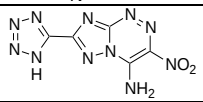
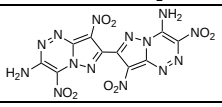
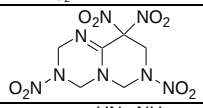
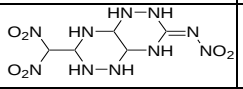
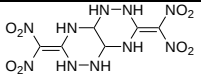
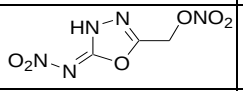
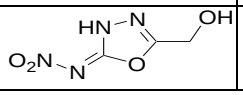
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
200	[73]		-64.2	50.0	1206.2	1072.8	133.4	650.61	555.59	861.7	-344.5
210	[75]		-35.2	37.0	375.3	207.9	167.4	445.16	69.86	326.5	-48.8
211	[75]		-47.3	35.5	301.9	275.3	26.6	418.36	116.46	346.8	44.9
212	[75]		-58.5	34.1	299.1	250.7	48.4	391.56	92.46	321.1	22
216	[75]		-35.9	39.3	342	376.8	34.8	432.55	90.55	404.7	62.7
217	[75]		-21.9	38.4	521.6	399	122.6	441.47	80.13	420.2	-101.4
219	[76]		-27.9	40.7	457.8	432.5	25.3	340.75	117.05	386.6	-71.2
220	[77]		-40.4	42.4	219.4	236	16.6	111.18	108.22	173.6	-45.8
221	[77]		-34.1	-34.1	786.1	1026.3	240.2	352.27	433.83	689.3	-96.8
222	[77]		-32.6	42.9	854.2	790.8	63.4	245.33	608.87	518.1	-336.1
223	[78]		-65.3	57.1	398	564.9	166.9	462.06	64.06	513.5	115.5
224	[78]		-52.8	52.8	470	502.8	32.8		470	251.4	-218.6
231	[80]		-61.0	61.8	721.6	887.2	165.6	728.72	7.12	808	86.4
239	[81]		-44.6	64.0	634.3	625.7	8.6	546.64	87.66	586.2	-48.1

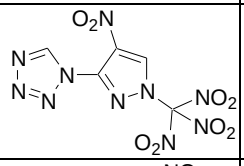
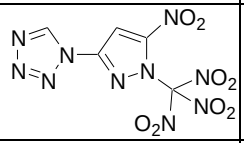
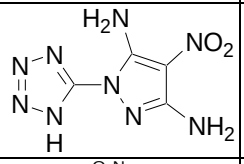
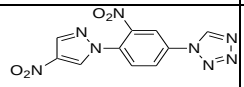
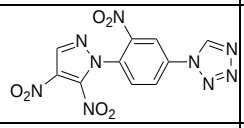
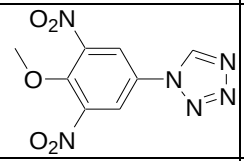
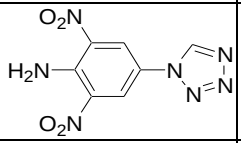
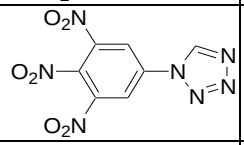
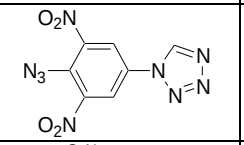
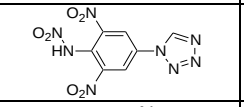
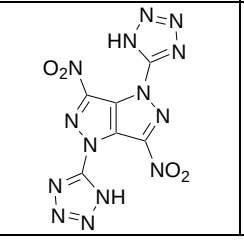
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
240	[81]		-43.9	61.5	656.8	592.6	64.2	493.17	163.63	542.9	-113.9
254	[85]		17.3	39.0	284.3	334.6	50.3	157.13	127.17	245.9	-38.4
258	[85]		5.8	40.3	247.5	312.4	64.9	171.36	76.14	241.9	-5.6
261	[86]		-29.6	41.5	344	410.7	66.7	341.85	2.15	376.3	32.3
262	[87]		-71.2	38.4	521.57	327.3	194.27	365.13	156.44	346.2	-175.37
263	[87]		-71.1	38.9	639.79	505.1	134.69	430.87	208.92	468	-171.79
264	[87]		-39.1	37.3	762.11	660	102.11	427.59	334.52	543.8	-218.31
265	[87]		-33.5	36.7	882.44	482.2	400.24	361.85	520.59	422	-460.44
266	[87]		-39.1	37.3	602.65	488.2	114.45	386.41	216.24	437.3	-165.35
267	[88]		-69.9	54.4	533.3	532.2	1.1	688.02	154.72	610.1	76.8
268	[88]		-61.0	61.8	723.4	926.9	203.5	728.72	5.32	827.8	104.4
269	[89]		-81.7	56.0	369	530.6	161.6	482.19	113.19	506.4	137.4
271	[90]		-52.8	49.7	223	194.9	28.1	252.54	29.54	223.7	0.7
272	[91]		-47.6	58.3	1336	1220.8	115.2	828.13	507.87	1024.5	-311.5
273	[91]		-103.1	67.7	1124.3	842.7	281.6	873.59	250.71	858.1	-266.2

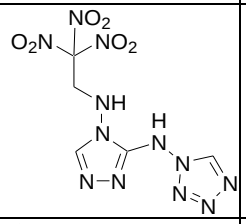
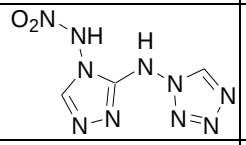
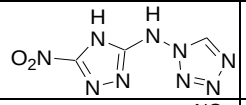
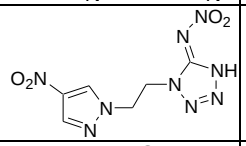
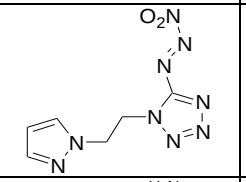
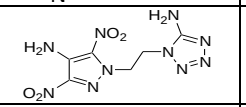
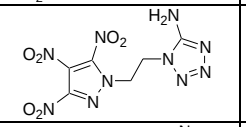
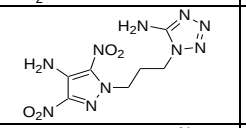
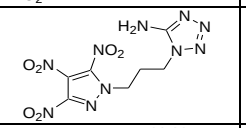
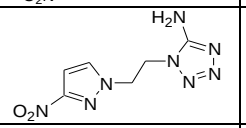
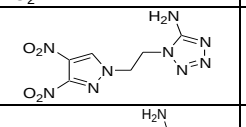
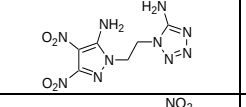
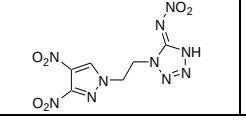
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
284	[92]		-95.9	33.6	403.9	421.8	17.9	313.83	90.07	367.8	-36.1
285	[92]		-95.9	33.6	408.7	421.8	13.1	313.83	94.87	367.8	-40.9
286	[92]		-95.9	33.6	392.9	421.8	28.9	313.83	79.07	367.8	-25.1
287	[92]		-84.2	31.6	302.7	243.4	59.3	313.83	11.13	278.6	-24.1
288	[92]		-84.2	31.6	287.4	243.4	44	181.61	105.79	212.5	-74.9
289	[92]		-84.2	31.6	322.4	243.4	79	181.61	140.79	212.5	-109.9
290	[92]		-84.2	31.6	293.7	243.4	50.3	181.61	112.09	212.5	-81.2
291	[92]		-100.6	37.1	654.3	584.9	69.4	548.65	105.65	566.8	-87.5
292	[92]		-76.0	36.3	628	576.5	51.5	526.42	101.58	551.5	-76.5
293	[92]		-79.6	39.0	369	427.6	58.6	368.26	0.74	397.9	28.9
294	[92]		-54.0	37.8	495.4	449.9	45.5	377.18	118.22	413.5	-81.9
295	[92]		-54.1	34.9	470.5	361.3	109.2	323.71	146.79	342.5	-128
296	[92]		-66.4	45.5	744.3	858.2	113.9	632.27	112.03	745.2	0.9
301	[94]		-47.0	32.9	326.6	328.3	1.7	331.19	4.59	329.7	3.1
302	[94]		-58.7	31.6	280.1	211.7	68.4	304.39	24.29	258	-22.1
303	[94]		-63.5	44.4	345.3	454.7	109.4	489.34	144.04	472	126.7

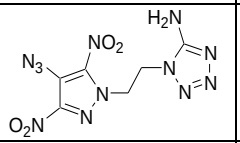
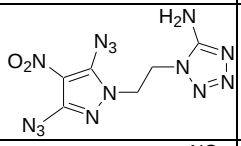
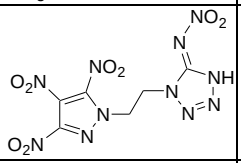
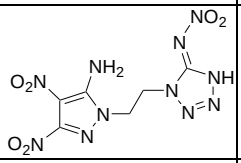
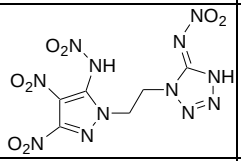
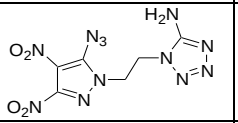
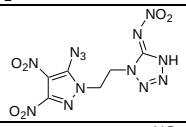
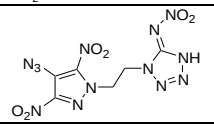
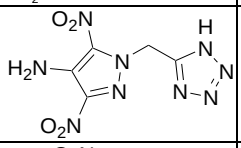
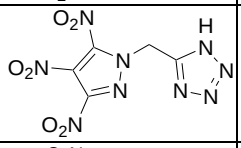
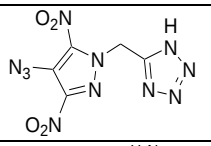
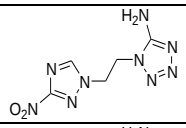
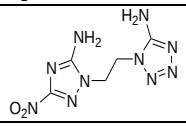
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
304	[94]		-78.1	42.1	307.2	430.1	122.9	462.54	155.34	446.3	139.1
314	[95]		-34.1	46.4	1038	964.9	73.1	352.27	685.73	658.6	-379.4
315	[95]		-31.5	55.1	718	803.7	85.7	494.65	223.35	649.2	-68.8
316	[95]		-27.6	36.2	246	271.8	25.8	-161.25	407.25	55.3	-190.7
318	[95]		-56.8	39.8	1382	1331.9	50.1	1089.55	292.45	1210.7	-171.3
319	[95]		-56.6	43.4	1483	1563.8	80.8	1178.83	304.17	1371.3	-111.7
320	[95]		-31.2	38.3	1359	1298.3	60.7	1000.63	358.37	1149.5	-209.5
321	[95]		-23.4	40.9	687.6	677.3	10.3	343.33	344.27	510.3	-177.3
322	[95]		-23.4	40.9	687.6	677.3	10.3	343.33	344.27	510.3	-177.3
323	[95]		-22.8	40.0	744.1	849.9	105.8	392.65	351.45	621.3	-122.8
324	[95]		-23.4	40.9	591.8	493.3	98.5	343.33	248.47	418.3	-173.5
325	[95]		-23.4	40.9	612.4	493.3	119.1	343.33	269.07	418.3	-194.1
326	[95]		-43.1	58.7	1289.7	1379.9	90.2	960.45	329.25	1170.2	-119.5
327	[96]		-25.4	55.6	787	861.4	74.4	647.15	139.85	754.3	-32.7
328	[96]		-18.8	41.2	758.5	735	23.5	495.83	262.67	615.4	-143.1

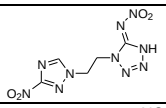
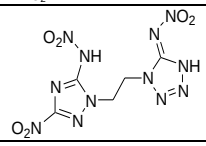
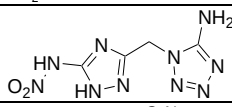
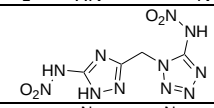
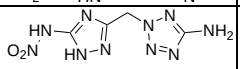
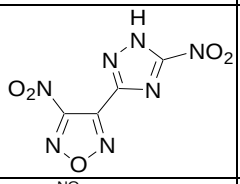
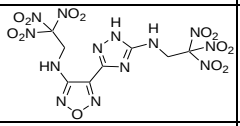
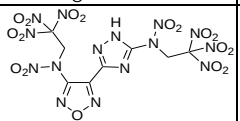
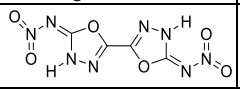
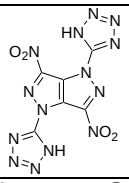
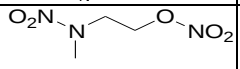
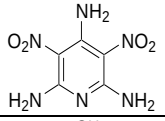
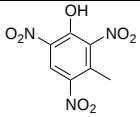
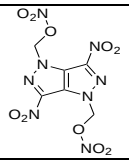
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
329	[96]		-38.5	59.0	1318.8	1437.6	118.8	1112.95	205.85	1275.3	-43.5
330	[96]		-35.2	37.0	375.3	207.9	167.4	445.16	69.86	326.5	-48.8
331	[96]		-47.3	35.5	301.9	275.3	26.6	418.36	116.46	346.8	44.9
332	[96]		-58.5	34.1	299.1	250.7	48.4	391.56	92.46	321.1	22
333	[96]		-35.9	39.3	341.9	399	57.1	432.55	90.65	415.8	73.9
334	[96]		-21.9	38.4	521.5	521.7	0.2	441.47	80.03	481.6	-39.9
336	[96]		-92.6	30.0	695	1257.3	562.3	1006.99	311.99	1132.1	437.1
338	[96]		-28.6	50.0	710	1109.3	399.3	814.41	104.41	961.9	251.9
340	[96]		-40.4	42.4	322.6	140.9	181.7	295.21	27.39	218.1	-104.5
341	[96]		-18.4	32.2	133.7	61.3	72.4	-13.79	147.49	23.8	-109.9
342	[96]		0.0	38.9	550.9	295.8	255.1	291.93	258.97	293.9	-257
343	[96]		-42.1	49.1	467	256.9	210.1	381.03	85.97	319	-148
344	[96]		-5.0	44.0	595.2	270.7	324.5	398.87	196.33	334.8	-260.4

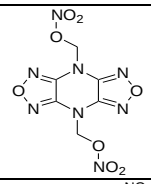
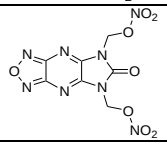
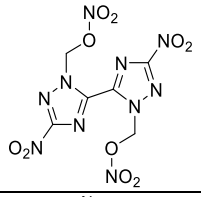
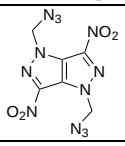
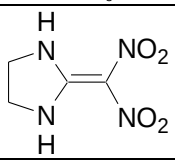
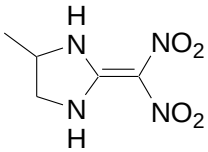
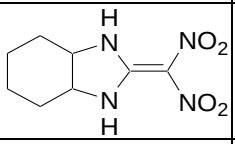
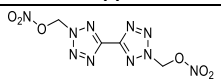
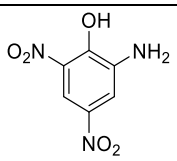
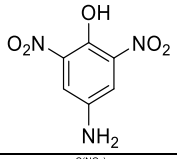
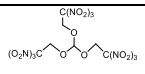
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
346	[96]		-37.5	54.7	544.9	500.7	44.2	524.45	20.45	512.6	-32.3
350	[96]		-38.3	37.2	246	251.2	5.2	14.83	231.17	133	-113
351	[96]		-43.9	61.5	675.1	567.8	107.3	524.32	150.78	546.1	-129
352	[96]		-19.8	57.9	740.9	709.3	31.6	555.56	185.34	632.4	-108.5
357	[96]		-32.3	69.1	951.8	1056.3	104.5	810.65	141.15	933.5	-18.3
358	[96]		-36.9	64.6	2037.8	1595	442.8	1116.25	921.55	1355.6	-682.2
360	[96]		-43.9	61.5	647.8	659.7	11.9	524.32	123.48	592	-55.8
361	[96]		-29.6	41.5	370	410.7	40.7	341.85	28.15	376.3	6.3
363	[96]		-69.9	54.4	533.5	664.6	131.1	688.02	154.52	676.3	142.8
364	[96]		-61.0	61.8	752.7	926.9	174.2	728.72	23.98	827.8	75.1
365	[96]		-50.0	43.7	899	912.2	13.2	748.55	150.45	830.4	-68.6
366	[96]		-40.0	35.0	124.76	223.3	98.54	166.22	41.46	194.8	70.04
367	[96]		-47.0	45.7	304.2	-66.5	370.7	184.42	119.78	59	-245.2
368	[96]				348.2	35	313.2	270.09	78.11	152.5	-195.7
370	[98]		-11.7	34.1	26.13	-21.4	47.53	-152.23	178.36	-86.8	-112.93
376	[98]		-40.0	35.0	-75.57	-107.6	32.03	-161.48	85.91	-134.5	-58.93

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
379	[99]		-14.5	42.4	602	582.9	19.1	396.52	205.48	489.7	-112.3
380	[99]		-14.5	42.4	629	582.9	46.1	396.52	232.48	489.7	-139.3
381	[99]		-64.4	59.7	407.7	483.3	75.6	493.71	86.01	488.5	80.8
383	[99]		-100.6	37.1	654.3	676.9	22.6	548.65	105.65	612.8	-41.5
384	[99]		-76.0	36.3	628	576.5	51.5	526.42	101.58	551.5	-76.5
385	[99]		-84.2	31.6	302.7	335.4	32.7	181.61	121.09	258.5	-44.2
386	[99]		-79.6	39.0	369	427.6	58.6	368.26	0.74	397.9	28.9
387	[99]		-54.1	34.9	470.5	453.2	17.3	323.71	146.79	388.5	-82
388	[99]		-66.4	45.5	744.3	950.2	205.9	632.27	112.03	791.2	46.9
389	[99]		-54.0	37.8	495.4	541.8	46.4	377.18	118.22	459.5	-35.9
392	[99]		-43.1	58.7	1111.5	1085.5	26	914.35	197.15	999.9	-111.6

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
398	[99]		-33.9	50.9	1091.8	690.7	401.1	558.48	533.32	624.6	-467.2
399	[99]		-45.3	66.0	923.3	787.3	136	630.03	293.27	708.7	-214.6
400	[99]		-44.6	64.0	950.6	484.1	466.5	555.97	394.63	520	-430.6
402	[99]		-68.4	46.8	463	602.4	139.4	405.89	57.11	504.1	41.1
403	[99]		-91.1	53.2	522.3	818.5	296.2	475.6	46.7	647.1	124.8
404	[99]		-67.6	49.3	373.7	565.3	191.6	450.79	77.09	508	134.3
405	[99]		-45.8	44.6	430.7	594	163.3	406.24	24.46	500.1	69.4
406	[99]		-80.5	47.0	364.6	540.7	176.1	430.15	65.55	485.4	120.8
407	[99]		-58.5	42.7	437.3	569.4	132.1	385.6	51.7	477.5	40.2
408	[99]		-99.9	50.0	355.8	610.8	255	450.7	94.9	530.8	175
409	[99]		-68.4	46.8	394.7	602.4	207.7	428.47	33.77	515.4	120.7
410	[99]		-67.6	49.3	369	565.3	196.3	450.79	81.79	508	139
411	[99]		-45.8	44.6	485.6	594	108.4	383.66	101.94	488.8	3.2

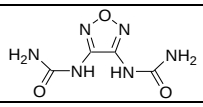
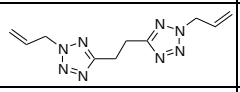
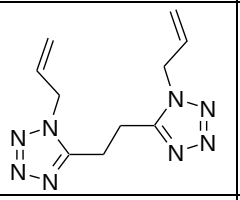
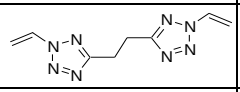
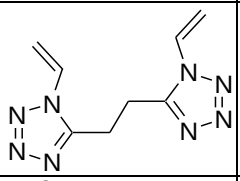
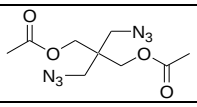
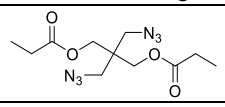
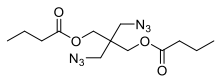
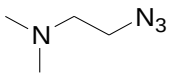
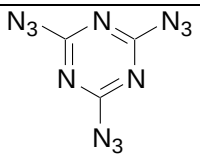
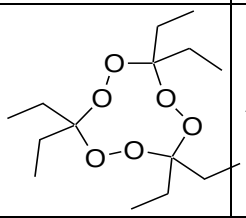
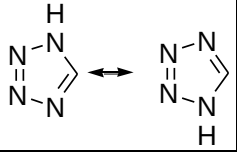
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
412	[99]		-56.7	54.2	784.9	1090.9	306	714.8	70.1	902.9	118
413	[99]		-67.9	64.0	1057.8	1480.6	422.8	1023.36	34.44	1252	194.2
414	[99]		-29.0	42.9	516.3	585.6	69.3	361.43	154.87	473.5	-42.8
415	[99]		-46.2	46.8	455.8	556.9	101.1	405.98	49.82	481.4	25.6
416	[99]		-29.9	44.9	501.8	579.1	77.3	414.9	86.9	497	-4.8
417	[99]		-56.7	54.2	727.2	1090.9	363.7	714.8	12.4	902.9	175.7
418	[99]		-38.3	51.3	812.5	1082.5	270	669.99	142.51	876.2	63.7
419	[99]		-38.3	51.3	844.4	1082.5	238.1	669.99	174.41	876.2	31.8
420	[99]		-53.3	49.4	390.7	439.9	49.2	428.52	37.82	434.2	43.5
421	[99]		-30.9	44.2	456.7	468.6	11.9	383.97	72.73	426.3	-30.4
422	[99]		-42.7	54.8	782.1	965.6	183.5	692.53	89.57	829.1	47
423	[99]		-81.7	56.0	382.8	637.9	255.1	504.13	121.33	571	188.2
424	[99]		-79.9	58.3	359.4	695.9	336.5	526.45	167.05	611.2	251.8

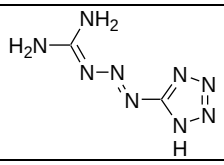
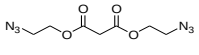
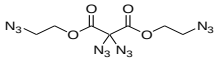
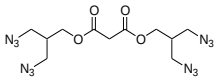
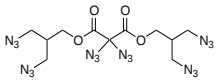
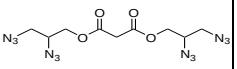
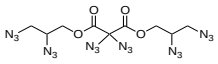
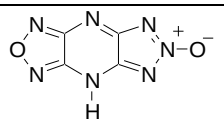
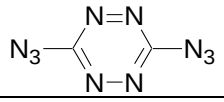
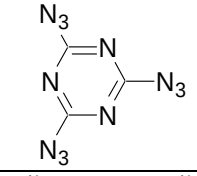
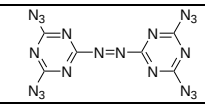
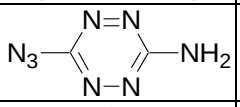
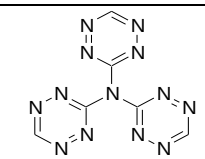
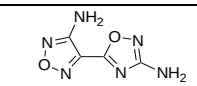
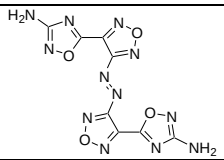
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
425	[99]		-53.3	51.8	476.8	629.5	152.7	459.32	17.48	544.4	67.6
426	[99]		-33.9	50.9	511.5	709.7	198.2	490.56	20.94	600.1	88.6
427	[99]		-63.7	61.9	476.2	659.1	182.9	557.65	81.45	608.4	132.2
428	[99]		-38.4	56.8	285	742.7	457.7	566.57	281.57	654.6	369.6
429	[99]		-63.7	61.9	462.8	659.1	196.3	557.65	94.85	608.4	145.6
433	[101]		-24.7	43.2	499.91	234.2	265.71	236.44	263.47	235.3	-264.61
434	[101]		-21.1	36.9	451.38	340.8	110.58	200.28	251.1	270.5	-180.88
435	[101]		-4.1	36.0	648.95	446.6	202.35	206.88	442.07	326.7	-322.25
453	[102]		-18.6	43.4	159.8	313.1	153.3	66.11	93.69	189.6	29.8
454	[103]		-43.1	58.7	1111.5	1085.5	26	914.35	197.15	999.9	-111.6
460	[26]		-43.6	25.5	-150	-125.7	24.3	-191.46	41.46	-158.6	-8.6
461	[38]		-67.2	39.2	-38.9	11.1	50	156.76	195.66	83.9	122.8
462	[38]		-62.5	17.3	-252.3	-216.1	36.2	-195.28	57.02	-205.7	46.6
465	[105]		-18.4	32.2	133.7	61.3	72.4	-13.79	147.49	23.8	-109.9

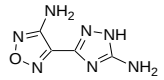
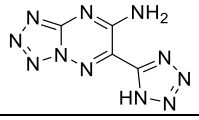
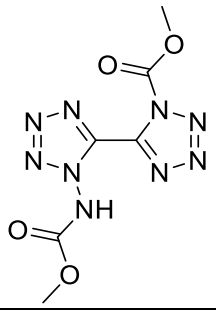
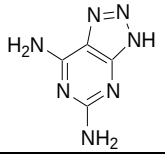
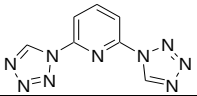
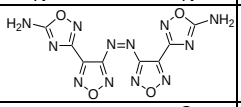
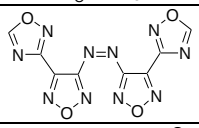
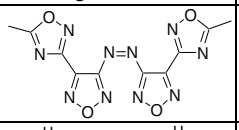
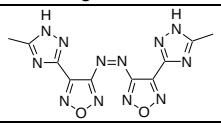
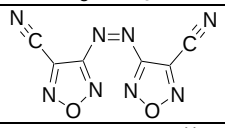
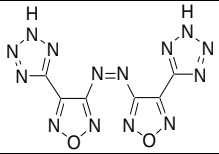
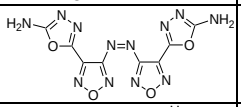
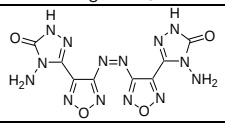
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
466	[105]		-30.4	35.4	276.6	185.4	91.2	-45.93	322.53	69.7	-206.9
467	[105]		-39.0	34.1	-7.2	-3.4	3.8	-25.84	18.64	-14.6	-7.4
468	[105]		-17.0	37.2	113.6	179.5	65.9	97.25	16.35	138.4	24.8
469	[105]		-51.9	54.5	946.3	1056.6	110.3	867.77	78.53	962.2	15.9
471	[47]		-64.3	32.2	-5.7	-56	50.3	75.27	80.97	9.6	15.3
472	[47]		-85.0	29.8	53.3	-80.6	133.9	34.29	19.01	-23.2	-76.5
473	[47]		-126.2	24.6	107.4	-96.6	204	39.01	68.39	-28.8	-136.2
479	[107]		-22.2	48.6	441	600.8	159.8	248.57	192.43	424.7	-16.3
480	[108]		-76.3	21.1	-262.4	-201.8	60.6	-118.62	143.78	-160.2	102.2
481	[109]		-76.3	21.1	-0.5	-201.8	201.3	-118.62	118.12	-160.2	-159.7
482	[110]		10.1	22.8	-1021	-519.9	501.1	-781.13	239.87	-650.5	370.5

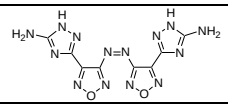
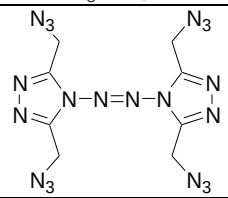
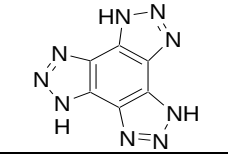
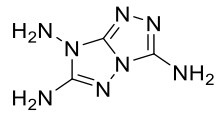
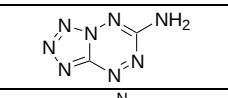
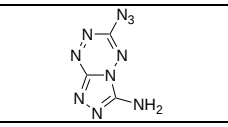
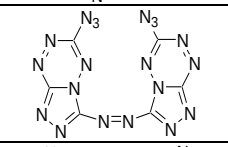
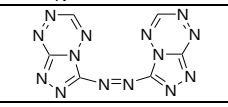
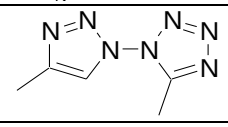
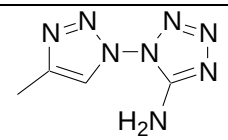
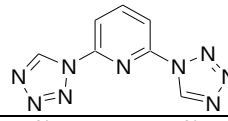
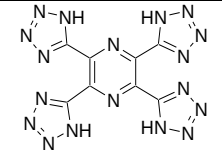
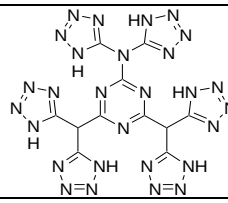
2.5.7 The heat of formation of molecules not containing nitro groups

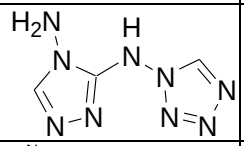
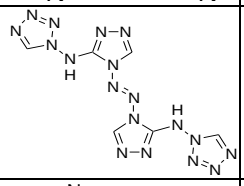
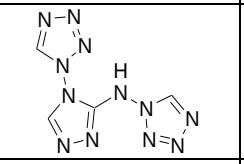
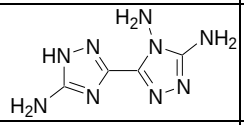
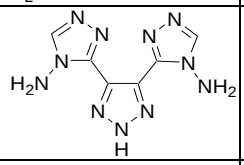
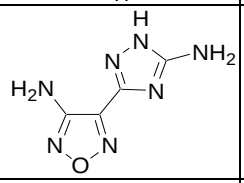
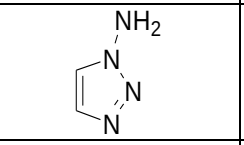
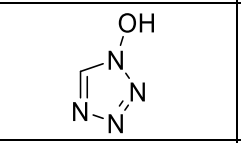
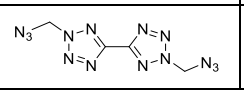
Table 100. Table summarizing the structural formulae, empirical formulae and the heat of formation of the molecules not containing nitro groups.

		Compound	Ω_{CO2} [%]	N%	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^0(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^0(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
8	[25]		-68.8	45.2	-162	-261.1	-99.1	30.18	192.18	-115.5	46.5
12	[30]		-175,4	45.5	605	602.3	-2.7	661.55	56.55	631.9	26.9
13	[30]		-175.4	45.5	622	602.3	-19.7	661.55	39.55	631.9	9.9
14	[30]		-154.0	51.4	635	651.5	16.5	702.83	67.83	677.2	42.2
15	[30]		-154.0	51.4	643	651.5	8.5	702.83	59.83	677.2	34.2
26	[35]		-124.3	31.1	-242	-65.3	176.7	-108.82	133.18	-87.1	154.9
27	[35]		-144.8	28.2	-296	-114.5	181.5	-150.1	145.9	-132.3	163.7
28	[35]		-161.8	25.8	-349	-163.6	185.4	-191.38	157.62	-177.5	171.5
46	[24]		-182.2	49.1	277	279.1	2.1	239.44	-37.56	259.3	-17.7
47	[24] [40]		-47.0	82.3	1053	1412.8	359.8	1100.11	47.11	1256.5	203.5
49	[42]		-198.3	0.0	-583.8	-744.8	-161	-1104.05	-520.25	-924.4	-340.6
58	[38]		-68.5	80.0	237.07	303.2	66.13	268.59	31.52	285.9	48.83

		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
63	[38]		-67.0	81.3	382	633.1	251.1	423.71	41.71	528.4	146.4
84	[51]		99.1	34.7	-176	174	350	-58.79	117.21	57.6	233.6
85	[51]		-69.1	51.8	542	936.5	394.5	528.06	-13.94	732.3	190.3
86	[51]		-109.4	44.2	466	838.2	372.2	443.69	-22.31	640.9	174.9
87	[51]		-86.5	54.5	1187	1600.6	413.6	1030.54	-156.46	1315.6	128.6
88	[51]		-90.8	47.7	440	887.3	447.3	484.97	44.97	686.1	246.1
89	[51]		-70.0	58.1	1160	1649.8	489.8	1071.82	-88.18	1360.8	200.8
137	[63]		-58.1	54.7	597	475.7	-121.3	521.64	-75.36	498.7	-98.3
145	[40]		-39.0	85.4	1130	1206.1	76.1	867.21	-262.79	1036.7	-93.3
146	[40]		-47.0	82.3	1053	1412.8	359.8	1100.11	47.11	1256.5	203.5
147	[40]		-54.5	79.5	2171	2022.5	-148.5	1747.35	-423.65	1884.9	-286.1
148	[40]		-57.9	81.1	686.2	882.8	196.6	603.2	-83	743	56.8
165	[67]		-84.0	70.8	1386.2	1405.1	18.9	1003.43	-382.77	1204.3	-181.9
191	[71]		-76.1	50.0	186.6	246.9	60.3	155.73	-30.87	201.3	14.7
193	[71]		-67.4	50.6	705.5	868.1	162.6	334.43	-371.07	601.3	-104.2

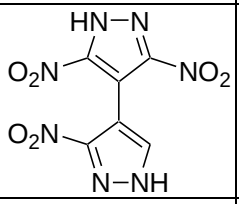
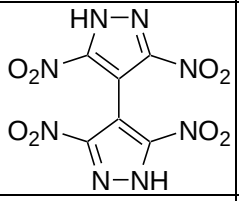
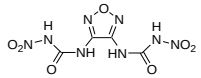
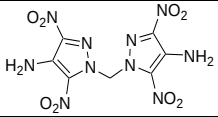
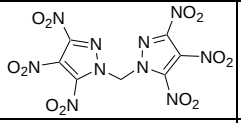
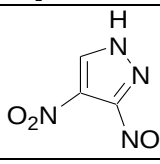
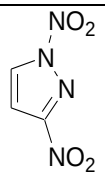
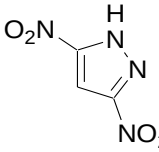
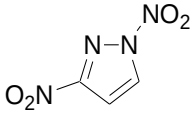
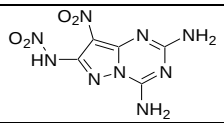
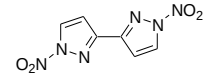
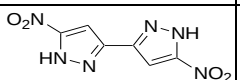
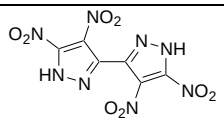
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
194	[71]		-91.0	58.7	290.8	279.8	-11	325.54	34.74	302.7	11.9
232	[80]		-74.1	75.1	866.5	1070.2	203.7	804.38	-62.12	937.3	70.8
241	[82]		-68.4	46.8	325.5	301.3	-24.2	80.14	-245.36	190.7	-134.8
270	[90]		-111.2	64.9	361	433.8	72.8	463.7	102.7	448.8	87.8
283	[92]		-122.7	58.6	882.5	941.3	58.8	753.4	-129.1	847.4	-35.1
305	[95]		-67.4	50.6	711.2	828.5	117.3	334.43	-376.77	581.5	-129.7
306	[95]		-68.8	46.4	832.9	807.7	-25.2	289.79	-543.11	548.7	-284.2
307	[95]		-92.1	42.4	696.5	835.2	138.7	225.57	-470.93	530.4	-166.1
308	[95]		-107.2	51.2	864.3	1019.7	155.4	565.19	-299.11	792.4	-71.9
309	[95]		-74.0	51.8	933.9	810.9	-123	654.87	-279.03	732.9	-201
310	[95]		-58.2	64.9	1224.3	1301.6	77.3	736.27	-488.03	1018.9	-205.4
311	[95]		-67.4	50.6	684.1	828.5	144.4	266.14	-417.96	547.3	-136.8
312	[95]		-66.3	54.1	769.9	793.8	23.9	427.17	-342.73	610.5	-159.4

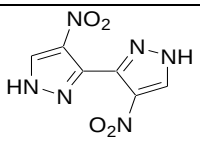
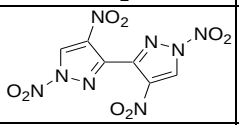
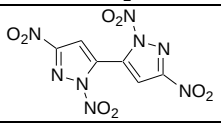
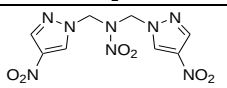
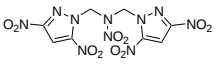
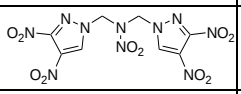
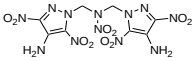
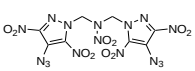
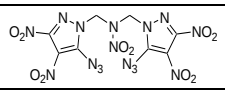
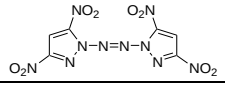
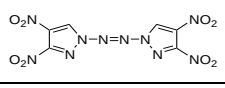
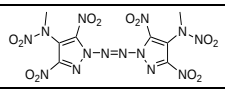
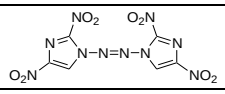
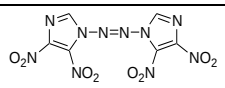
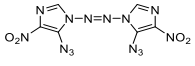
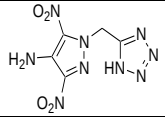
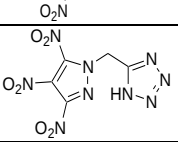
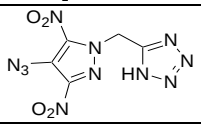
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
313	[95]		-82.4	59.4	920.8	262	-658.8	674.05	-246.75	468	-452.8
317	[95]		-83.3	72.9	1940	2170.5	230.5	1601.87	-338.13	1886.2	-53.8
337	[96]		-107.4	62.7	463	915.2	452.2	774.94	311.94	845.1	382.1
339	[96]		-93.4	72.7	470.5	453.8	-16.7	501.24	30.74	477.5	7
347	[96]		-57.9	81.1	686.2	867.5	181.3	568.83	-117.37	718.2	32
355	[96]		-62.9	78.6	913.6	1034	120.4	801.73	-111.87	917.9	4.3
356	[96]		-54.5	79.5	2194.6	2335	140.4	1626.43	-568.17	1980.7	-213.9
359	[96]		-77.0	72.6	1525.2	1465.2	-60	1053.77	-471.43	1259.5	-265.7
377	[99]		-130.8	59.4	699.62	812.5	112.88	481.1	-218.52	646.8	-52.82
378	[99]		-105.9	67.4	747.17	895	147.83	535.53	-211.64	715.3	-31.87
382	[99]		-122.7	58.6	882.5	941.3	58.8	753.4	-129.1	847.4	-35.1
390	[99]		-81.8	71.6	1383	1778.2	395.2	1343.61	-39.39	1560.9	177.9
393	[99]		-78.1	73.7	1833	2719.1	886.1	2025.1	192.1	2372.1	539.1

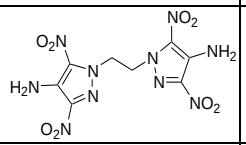
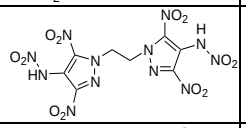
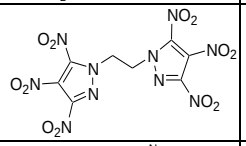
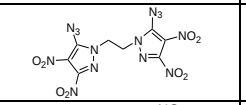
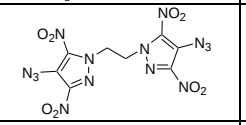
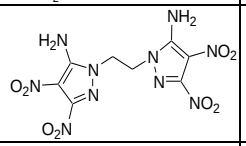
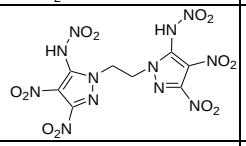
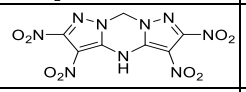
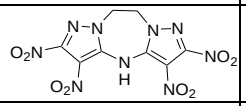
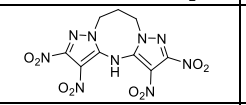
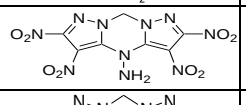
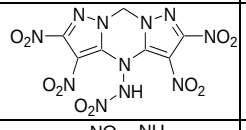
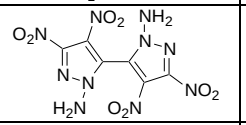
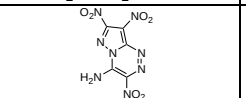
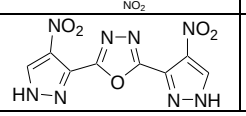
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
396	[99]		-81.4	75.4	862.9	550.5	-312.4	621.11	-241.79	585.8	-277.1
397	[99]		-72.7	76.3	1799.4	1586.1	-213.3	1265.19	-534.21	1425.6	-373.8
401	[99]		-72.7	76.3	1256.5	964.8	-291.7	908.36	-348.14	936.6	-319.9
430	[100]		-101.6	69.6	396.8	544.9	148.1	538.26	141.46	541.6	144.8
431	[100]		-106.4	66.1	763	784.7	21.7	772.08	9.08	778.4	15.4
432	[101]		-91.0	58.7	404.03	366.9	-37.13	325.54	-78.49	346.2	-57.83
463	[24]		-114.2	66.6	285.6	278.6	-7	258.07	-27.53	268.3	-17.3
474	[106]		-37.2	65.1	252	238.1	-13.9	111.87	-140.13	175	-77
478	[107]		-64.5	79.0	1258	1596.1	338.1	1130.13	-127.87	1363.1	105.1

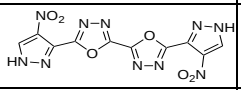
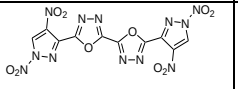
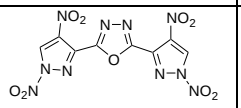
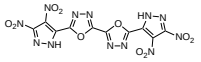
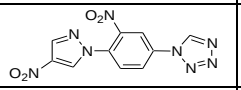
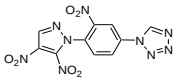
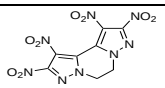
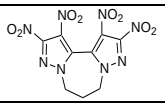
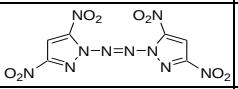
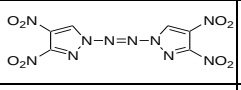
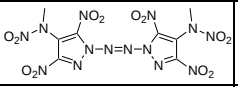
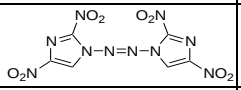
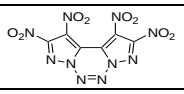
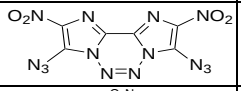
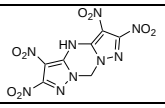
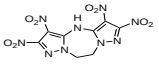
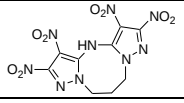
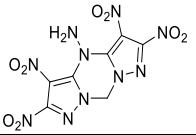
2.5.8 The heat of formation of diazoles

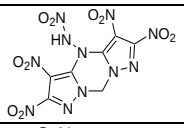
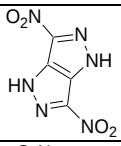
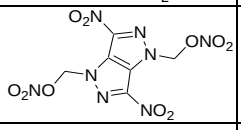
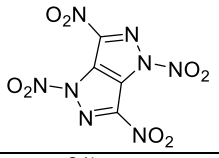
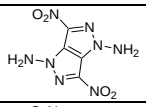
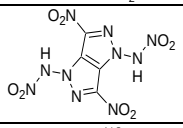
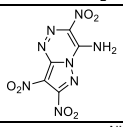
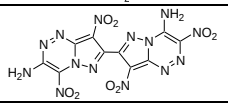
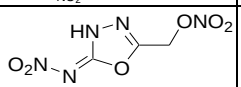
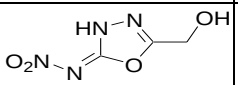
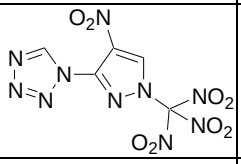
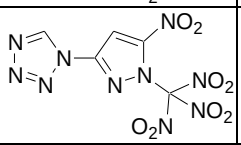
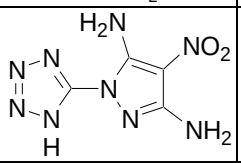
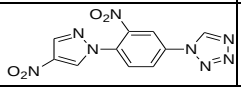
Table 101. Table summarizing the structural formulae, empirical formulae and the heat of formation of the diazoles.

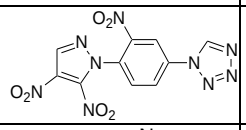
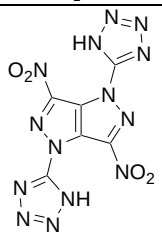
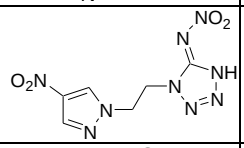
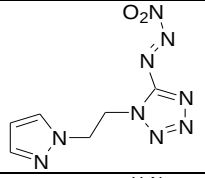
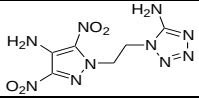
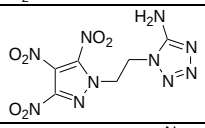
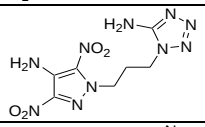
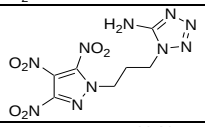
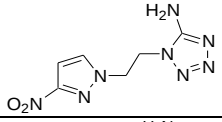
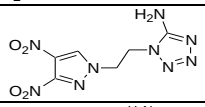
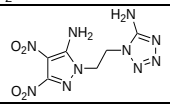
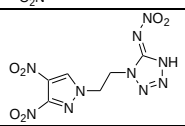
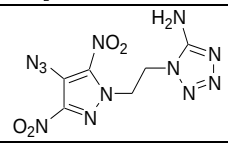
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
6	[27]		-44.6	36.4	224.9	141.1	83.8	277.16	52.26	209.1	-15.8
7	[27]		-25.5	35.7	227.8	132.6	95.2	254.93	27.13	193.8	-34
16	[25]		-17.4	34.1	-22	-183.9	161.9	116.31	138.31	-33.8	-11.8
17	[31]		-40.2	39.1	205	224	19	320.11	115.11	272.1	67.1
18	[31]		-11.5	33.5	379	186.3	192.7	231.01	147.99	208.7	-170.3
36	[37]		-30.4	35.4	124.3	29.3	95	117.27	7.03	73.3	-51
37	[37]		-30.4	35.4	189.1	106	83.1	137.86	51.24	121.9	-67.2
38	[37]		-30.4	35.4	73.2	29.3	43.9	117.27	44.07	73.3	0.1
120	[37]		-30.4	35.4	189.1	106	83.1	137.86	51.24	121.9	-67.2
136	[62]		-53.3	49.4	314	331	17	439.87	125.87	385.4	71.4
139	[64]		-71.4	37.5	413.9	321.2	92.7	340.57	73.33	330.9	-83
140	[64]		-71.4	37.5	229.1	149.5	79.6	299.39	70.29	224.4	-4.7
141	[64]		-25.5	35.7	42.7	132.6	89.9	254.93	212.23	193.8	151.1

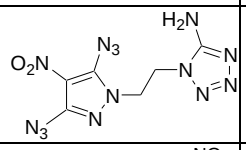
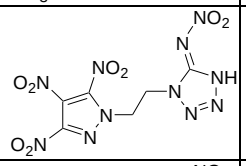
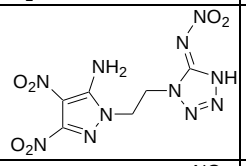
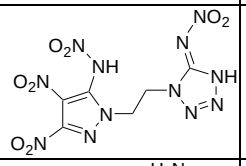
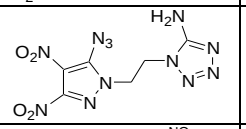
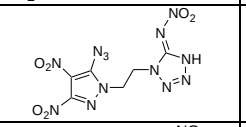
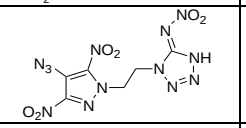
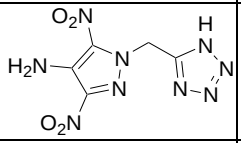
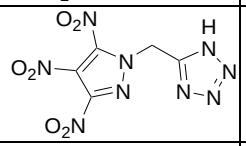
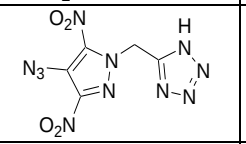
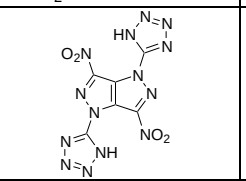
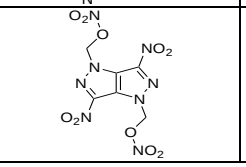
		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
142	[64]		-71.4	37.5	221	149.5	71.5	299.39	78.39	224.4	3.4
143	[64]		-25.5	35.7	407.1	304.4	102.7	296.11	110.99	300.3	-106.8
144	[64]		-25.5	35.7	444.1	304.4	139.7	296.11	147.99	300.3	-143.8
150	[65]		-71.8	35.9	377.2	367.6	9.6	362.89	14.31	365.2	-12
151	[65]		-35.8	34.8	388	350.8	37.2	311.6	76.4	331.2	-56.8
152	[65]		-35.8	34.8	398	350.8	47.2	311.6	86.4	331.2	-66.8
153	[65]		-37.0	38.9	486.4	371.6	114.8	356.24	130.16	363.9	-122.5
154	[65]		-26.4	46.3	1108.2	1220.5	112.3	884.26	223.94	1052.4	-55.8
155	[65]		-26.4	46.3	1118.7	1220.5	101.8	884.26	234.44	1052.4	-66.3
166	[68]4		-23.4	40.9	687.6	677.3	10.3	343.33	344.27	510.3	-177.3
167	[68]5		-23.4	40.9	687.6	677.3	10.3	343.33	344.27	510.3	-177.3
168	[68]6		-22.8	40.0	789.2	849.9	60.7	392.65	396.55	621.3	-167.9
169	[68]7		-23.4	40.9	591.8	493.3	98.5	343.33	248.47	418.3	-173.5
170	[68]8		-23.4	40.9	612.4	493.3	119.1	343.33	269.07	418.3	-194.1
172	[68]		-43.1	58.7	1169.1	1379.9	210.8	960.45	208.65	1170.2	1.1
173	[69]		-53.3	49.4	390.7	347.9	42.8	428.52	37.82	388.2	-2.5
174	[69]		-30.9	44.2	456.7	376.6	80.1	383.97	72.73	380.3	-76.4
179	[69]		-42.7	54.8	782.1	873.6	91.5	692.53	89.57	783.1	1

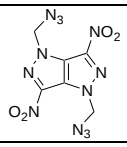
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
183	[70]		-51.6	37.6	218.9	291.4	72.5	299.47	80.57	295.4	76.5
184	[70]		-24.2	36.4	380.6	305.2	75.4	317.31	63.29	311.3	-69.3
186	[70]		-22.2	32.4	306.9	253.7	53.2	210.37	96.53	232	-74.9
187	[70]		-37.7	46.2	1233.9	1140.3	93.6	827.49	406.41	983.9	-250
188	[70]		-37.7	46.2	1013.9	1140.3	126.4	827.49	186.41	983.9	-30
189	[70]		-51.6	37.6	237.9	291.4	53.5	299.47	61.57	295.4	57.5
190	[70]		-24.2	36.4	368.1	305.2	62.9	317.31	50.79	311.3	-56.8
210	[75]		-35.2	37.0	375.3	207.9	167.4	445.16	69.86	326.5	-48.8
211	[75]		-47.3	35.5	301.9	275.3	26.6	418.36	116.46	346.8	44.9
212	[75]		-58.5	34.1	299.1	250.7	48.4	391.56	92.46	321.1	22
216	[75]		-35.9	39.3	342	376.8	34.8	432.55	90.55	404.7	62.7
217	[75]		-21.9	38.4	521.6	399	122.6	441.47	80.13	420.2	-101.4
219	[76]		-27.9	40.7	457.8	432.5	25.3	340.75	117.05	386.6	-71.2
261	[86]		-29.6	41.5	344	410.7	66.7	341.85	2.15	376.3	32.3
262	[87]		-71.2	38.4	521.57	327.3	194.27	365.13	156.44	346.2	-175.37

		Compound	Ω_{co2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
263	[87]		-71.1	38.9	639.79	505.1	134.69	430.87	208.92	468	-171.79
264	[87]		-39.1	37.3	762.11	660	102.11	427.59	334.52	543.8	-218.31
265	[87]		-33.5	36.7	882.44	482.2	400.24	361.85	520.59	422	-460.44
266	[87]		-39.1	37.3	602.65	488.2	114.45	386.41	216.24	437.3	-165.35
291	[92]		-100.6	37.1	654.3	584.9	69.4	548.65	105.65	566.8	-87.5
292	[92]		-76.0	36.3	628	576.5	51.5	526.42	101.58	551.5	-76.5
301	[94]		-47.0	32.9	326.6	328.3	1.7	331.19	4.59	329.7	3.1
302	[94]		-58.7	31.6	280.1	211.7	68.4	304.39	24.29	258	-22.1
321	[95]		-23.4	40.9	687.6	677.3	10.3	343.33	344.27	510.3	-177.3
322	[95]		-23.4	40.9	687.6	677.3	10.3	343.33	344.27	510.3	-177.3
323	[95]		-22.8	40.0	744.1	849.9	105.8	392.65	351.45	621.3	-122.8
324	[95]		-23.4	40.9	591.8	493.3	98.5	343.33	248.47	418.3	-173.5
328	[96]		-18.8	41.2	758.5	735	23.5	495.83	262.67	615.4	-143.1
329	[96]		-38.5	59.0	1318.8	1437.6	118.8	1112.95	205.85	1275.3	-43.5
330	[96]		-35.2	37.0	375.3	207.9	167.4	445.16	69.86	326.5	-48.8
331	[96]		-47.3	35.5	301.9	275.3	26.6	418.36	116.46	346.8	44.9
332	[96]		-58.5	34.1	299.1	250.7	48.4	391.56	92.46	321.1	22
333	[96]		-35.9	39.3	341.9	399	57.1	432.55	90.65	415.8	73.9

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
334	[96]		-21.9	38.4	521.5	521.7	0.2	441.47	80.03	481.6	-39.9
340	[96]		-40.4	42.4	322.6	140.9	181.7	295.21	27.39	218.1	-104.5
341	[96]		-18.4	32.2	133.7	61.3	72.4	-13.79	147.49	23.8	-109.9
342	[96]		0.0	38.9	550.9	295.8	255.1	291.93	258.97	293.9	-257
343	[96]		-42.1	49.1	467	256.9	210.1	381.03	85.97	319	-148
344	[96]		-5.0	44.0	595.2	270.7	324.5	398.87	196.33	334.8	-260.4
361	[96]		-29.6	41.5	370	410.7	40.7	341.85	28.15	376.3	6.3
365	[96]		-50.0	43.7	899	912.2	13.2	748.55	150.45	830.4	-68.6
370	[98]		-11.7	34.1	26.13	-21.4	47.53	-152.23	178.36	-86.8	-112.93
376	[98]		-40.0	35.0	-75.57	-107.6	32.03	-161.48	85.91	-134.5	-58.93
379	[99]		-14.5	42.4	602	582.9	19.1	396.52	205.48	489.7	-112.3
380	[99]		-14.5	42.4	629	582.9	46.1	396.52	232.48	489.7	-139.3
381	[99]		-64.4	59.7	407.7	483.3	75.6	493.71	86.01	488.5	80.8
383	[99]		-100.6	37.1	654.3	676.9	22.6	548.65	105.65	612.8	-41.5

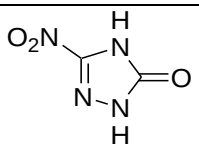
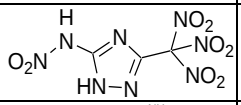
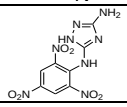
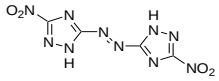
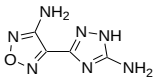
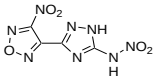
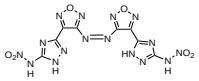
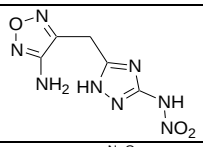
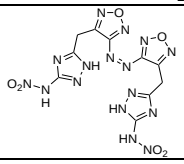
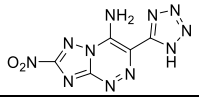
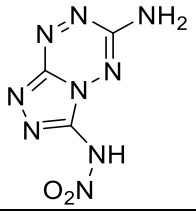
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
384	[99]		-76.0	36.3	628	576.5	51.5	526.42	101.58	551.5	-76.5
392	[99]		-43.1	58.7	1111.5	1085.5	26	914.35	197.15	999.9	-111.6
402	[99]		-68.4	46.8	463	602.4	139.4	405.89	57.11	504.1	41.1
403	[99]		-91.1	53.2	522.3	818.5	296.2	475.6	46.7	647.1	124.8
404	[99]		-67.6	49.3	373.7	565.3	191.6	450.79	77.09	508	134.3
405	[99]		-45.8	44.6	430.7	594	163.3	406.24	24.46	500.1	69.4
406	[99]		-80.5	47.0	364.6	540.7	176.1	430.15	65.55	485.4	120.8
407	[99]		-58.5	42.7	437.3	569.4	132.1	385.6	51.7	477.5	40.2
408	[99]		-99.9	50.0	355.8	610.8	255	450.7	94.9	530.8	175
409	[99]		-68.4	46.8	394.7	602.4	207.7	428.47	33.77	515.4	120.7
410	[99]		-67.6	49.3	369	565.3	196.3	450.79	81.79	508	139
411	[99]		-45.8	44.6	485.6	594	108.4	383.66	101.94	488.8	3.2
412	[99]		-56.7	54.2	784.9	1090.9	306	714.8	70.1	902.9	118

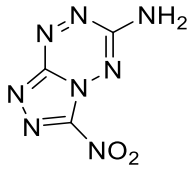
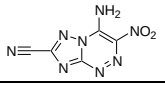
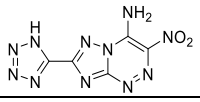
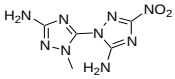
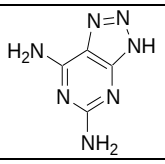
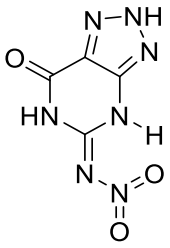
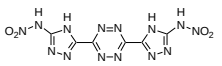
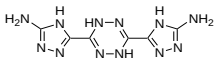
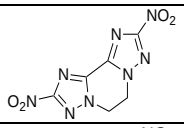
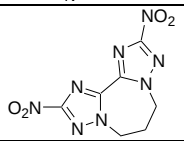
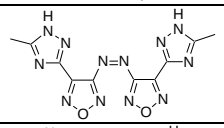
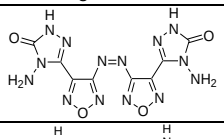
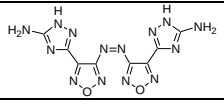
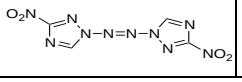
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
413	[99]		-67.9	64.0	1057.8	1480.6	422.8	1023.36	34.44	1252	194.2
414	[99]		-29.0	42.9	516.3	585.6	69.3	361.43	154.87	473.5	-42.8
415	[99]		-46.2	46.8	455.8	556.9	101.1	405.98	49.82	481.4	25.6
416	[99]		-29.9	44.9	501.8	579.1	77.3	414.9	86.9	497	-4.8
417	[99]		-56.7	54.2	727.2	1090.9	363.7	714.8	12.4	902.9	175.7
418	[99]		-38.3	51.3	812.5	1082.5	270	669.99	142.51	876.2	63.7
419	[99]		-38.3	51.3	844.4	1082.5	238.1	669.99	174.41	876.2	31.8
420	[99]		-53.3	49.4	390.7	439.9	49.2	428.52	37.82	434.2	43.5
421	[99]		-30.9	44.2	456.7	468.6	11.9	383.97	72.73	426.3	-30.4
422	[99]		-42.7	54.8	782.1	965.6	183.5	692.53	89.57	829.1	47
454	[103]		-43.1	58.7	1111.5	1085.5	26	914.35	197.15	999.9	-111.6
465	[105]		-18.4	32.2	133.7	61.3	72.4	-13.79	147.49	23.8	-109.9

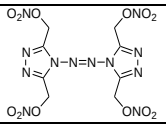
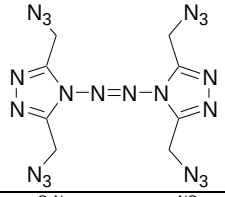
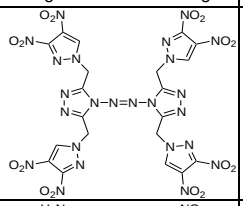
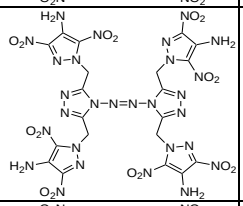
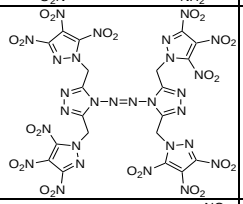
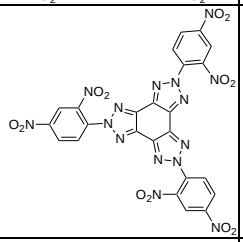
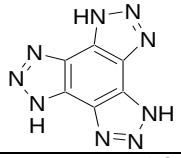
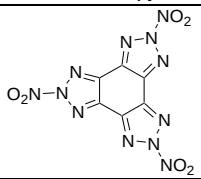
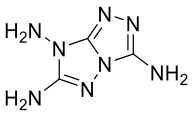
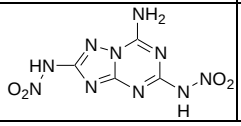
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
469	[105]		-51.9	54.5	946.3	1056.6	110.3	867.77	78.53	962.2	15.9

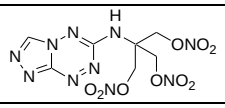
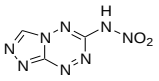
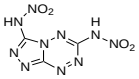
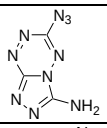
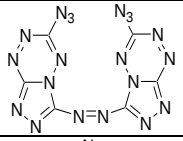
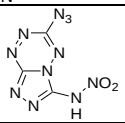
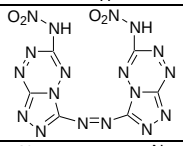
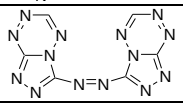
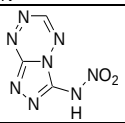
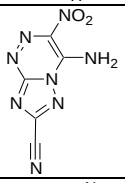
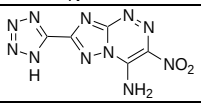
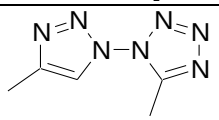
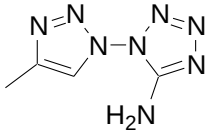
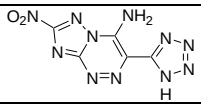
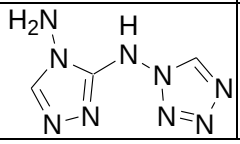
2.5.9 The heat of formation of triazoles

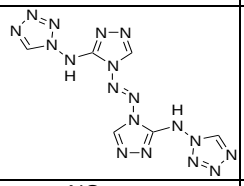
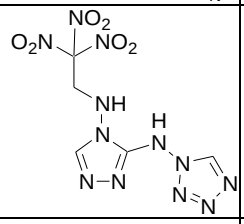
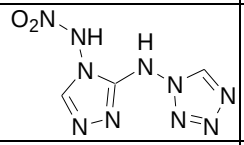
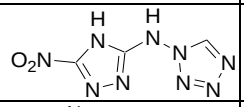
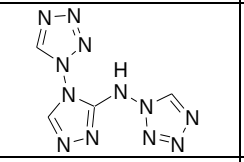
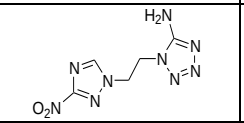
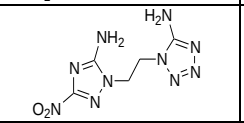
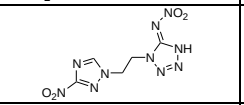
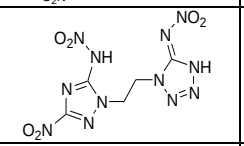
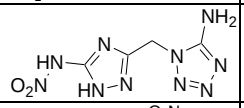
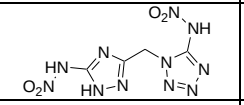
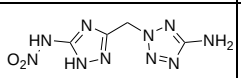
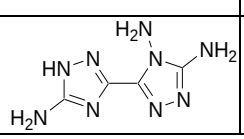
Table 102. Table summarizing the structural formulae, empirical formulae and the heat of formation of the triazoles.

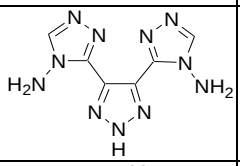
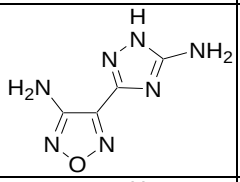
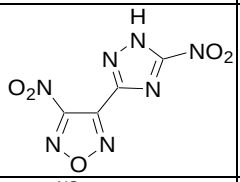
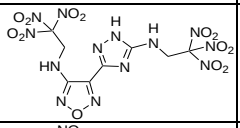
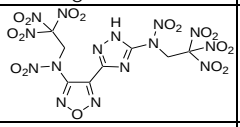
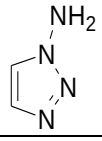
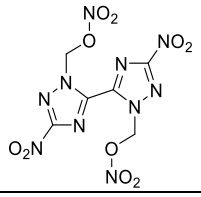
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
5	[23] [26]		-24.6	43.1	-97	-163.7	-66.7	48.9	145.9	-57.4	39.6
9	[28]		5.8	40.3	269	278.6	9.6	173.26	-95.74	225.9	-43.1
105	[55]		-67.1	36.1	147.4	299	151.6	325.48	178.08	312.2	164.8
156	[66]		-31.5	55.1	571.7	580.1	8.4	453.47	-118.23	516.8	-54.9
194	[71]		-91.0	58.7	290.8	279.8	-11	325.54	34.74	302.7	11.9
197	[73]		-26.4	46.3	524.66	322.8	-201.86	289.91	-234.75	306.4	-218.26
198	[73]		-45.7	53.3	1274.4	1121.9	-152.5	691.89	-582.51	906.9	-367.5
199	[73]		-70.8	49.5	449	364.6	-84.4	313.82	-135.18	339.2	-109.8
200	[73]		-64.2	50.0	1206.2	1072.8	-133.4	650.61	-555.59	861.7	-344.5
231	[80]		-61.0	61.8	721.6	887.2	165.6	728.72	7.12	808	86.4
239	[81]		-44.6	64.0	634.3	625.7	-8.6	546.64	-87.66	586.2	-48.1

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
240	[81]		-43.9	61.5	656.8	592.6	-64.2	493.17	-163.63	542.9	-113.9
267	[88]		-69.9	54.4	533.3	532.2	-1.1	688.02	154.72	610.1	76.8
268	[88]		-61.0	61.8	723.4	926.9	203.5	728.72	5.32	827.8	104.4
269	[89]		-81.7	56.0	369	530.6	161.6	482.19	113.19	506.4	137.4
270	[90]		-111.2	64.9	361	433.8	72.8	463.7	102.7	448.8	87.8
271	[90]		-52.8	49.7	223	194.9	-28.1	252.54	29.54	223.7	0.7
272	[91]		-47.6	58.3	1336	1220.8	-115.2	828.13	-507.87	1024.5	-311.5
273	[91]		-103.1	67.7	1124.3	842.7	-281.6	873.59	-250.71	858.1	-266.2
303	[94]		-63.5	44.4	345.3	454.7	109.4	489.34	144.04	472	126.7
304	[94]		-78.1	42.1	307.2	430.1	122.9	462.54	155.34	446.3	139.1
308	[95]		-107.2	51.2	864.3	1019.7	155.4	565.19	-299.11	792.4	-71.9
312	[95]		-66.3	54.1	769.9	793.8	23.9	427.17	-342.73	610.5	-159.4
313	[95]		-82.4	59.4	920.8	262	-658.8	674.05	-246.75	468	-452.8
315	[95]		-31.5	55.1	718	803.7	85.7	494.65	-223.35	649.2	-68.8

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
316	[95]		-27.6	36.2	246	271.8	25.8	-161.25	-407.25	55.3	-190.7
317	[95]		-83.3	72.9	1940	2170.5	230.5	1601.87	-338.13	1886.2	-53.8
318	[95]		-56.8	39.8	1382	1331.9	-50.1	1089.55	-292.45	1210.7	-171.3
319	[95]		-56.6	43.4	1483	1563.8	80.8	1178.83	-304.17	1371.3	-111.7
320	[95]		-31.2	38.3	1359	1298.3	-60.7	1000.63	-358.37	1149.5	-209.5
336	[96]		-92.6	30.0	695	1257.3	562.3	1006.99	311.99	1132.1	437.1
337	[96]		-107.4	62.7	463	915.2	452.2	774.94	311.94	845.1	382.1
338	[96]		-28.6	50.0	710	1109.3	399.3	814.41	104.41	961.9	251.9
339	[96]		-93.4	72.7	470.5	453.8	-16.7	501.24	30.74	477.5	7
346	[96]		-37.5	54.7	544.9	500.7	-44.2	524.45	-20.45	512.6	-32.3

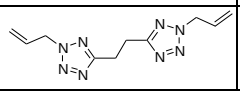
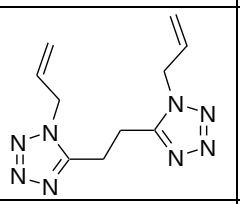
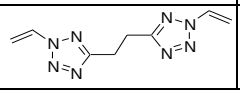
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350	[96]		-38.3	37.2	246	251.2	5.2	14.83	-231.17	133	-113
351	[96]		-43.9	61.5	675.1	567.8	-107.3	524.32	-150.78	546.1	-129
352	[96]		-19.8	57.9	740.9	709.3	-31.6	555.56	-185.34	632.4	-108.5
355	[96]		-62.9	78.6	913.6	1034	120.4	801.73	-111.87	917.9	4.3
356	[96]		-54.5	79.5	2194.6	2335	140.4	1626.43	-568.17	1980.7	-213.9
357	[96]		-32.3	69.1	951.8	1056.3	104.5	810.65	-141.15	933.5	-18.3
358	[96]		-36.9	64.6	2037.8	1595	-442.8	1116.25	-921.55	1355.6	-682.2
359	[96]		-77.0	72.6	1525.2	1465.2	-60	1053.77	-471.43	1259.5	-265.7
360	[96]		-43.9	61.5	647.8	659.7	11.9	524.32	-123.48	592	-55.8
363	[96]		-69.9	54.4	533.5	664.6	131.1	688.02	154.52	676.3	142.8
364	[96]		-61.0	61.8	752.7	926.9	174.2	728.72	-23.98	827.8	75.1
377	[99]		-130.8	59.4	699.62	812.5	112.88	481.1	-218.52	646.8	-52.82
378	[99]		-105.9	67.4	747.17	895	147.83	535.53	-211.64	715.3	-31.87
391	[99]		-61.0	61.8	721.6	926.9	205.3	728.72	7.12	827.8	106.2
396	[99]		-81.4	75.4	862.9	550.5	-312.4	621.11	-241.79	585.8	-277.1

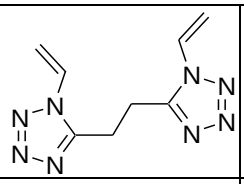
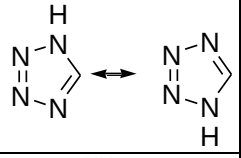
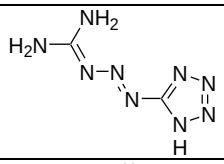
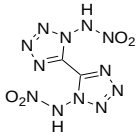
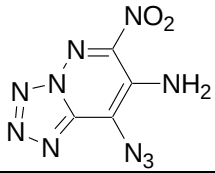
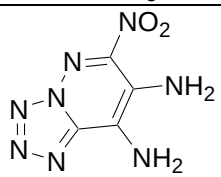
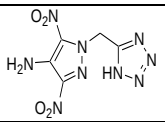
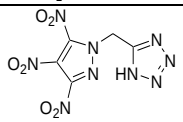
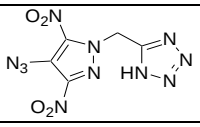
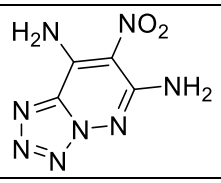
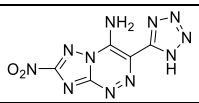
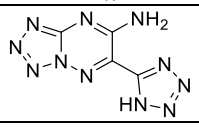
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397	[99]		-72.7	76.3	1799.4	1586.1	-213.3	1265.19	-534.21	1425.6	-373.8
398	[99]		-33.9	50.9	1091.8	690.7	-401.1	558.48	-533.32	624.6	-467.2
399	[99]		-45.3	66.0	923.3	787.3	-136	630.03	-293.27	708.7	-214.6
400	[99]		-44.6	64.0	950.6	484.1	-466.5	555.97	-394.63	520	-430.6
401	[99]		-72.7	76.3	1256.5	964.8	-291.7	908.36	-348.14	936.6	-319.9
423	[99]		-81.7	56.0	382.8	637.9	255.1	504.13	121.33	571	188.2
424	[99]		-79.9	58.3	359.4	695.9	336.5	526.45	167.05	611.2	251.8
425	[99]		-53.3	51.8	476.8	629.5	152.7	459.32	-17.48	544.4	67.6
426	[99]		-33.9	50.9	511.5	709.7	198.2	490.56	-20.94	600.1	88.6
427	[99]		-63.7	61.9	476.2	659.1	182.9	557.65	81.45	608.4	132.2
428	[99]		-38.4	56.8	285	742.7	457.7	566.57	281.57	654.6	369.6
429	[99]		-63.7	61.9	462.8	659.1	196.3	557.65	94.85	608.4	145.6
430	[100]		-101.6	69.6	396.8	544.9	148.1	538.26	141.46	541.6	144.8

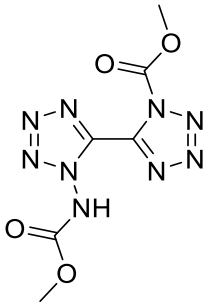
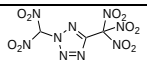
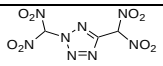
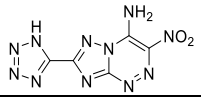
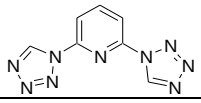
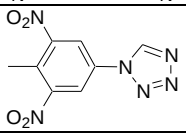
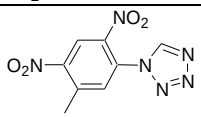
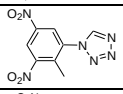
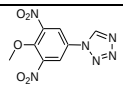
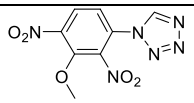
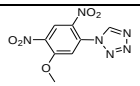
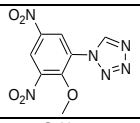
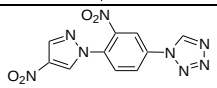
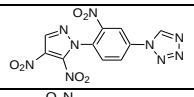
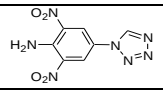
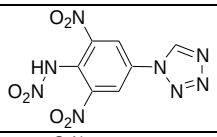
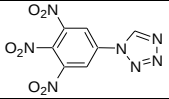
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431	[100]		-106.4	66.1	763	784.7	21.7	772.08	9.08	778.4	15.4
432	[101]		-91.0	58.7	404.03	366.9	-37.13	325.54	-78.49	346.2	-57.83
433	[101]		-24.7	43.2	499.91	234.2	-265.71	236.44	-263.47	235.3	-264.61
434	[101]		-21.1	36.9	451.38	340.8	-110.58	200.28	-251.1	270.5	-180.88
435	[101]		-4.1	36.0	648.95	446.6	-202.35	206.88	-442.07	326.7	-322.25
463	[24]		-114.2	66.6	285.6	278.6	-7	258.07	-27.53	268.3	-17.3
468	[105]		-17.0	37.2	113.6	179.5	65.9	97.25	-16.35	138.4	24.8

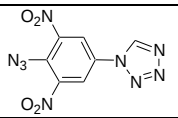
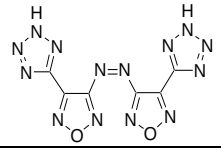
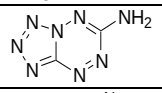
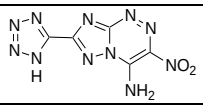
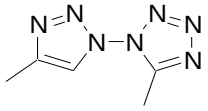
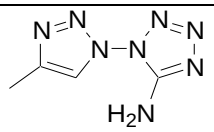
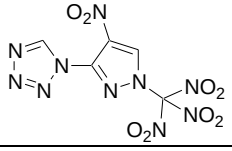
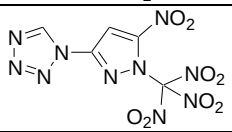
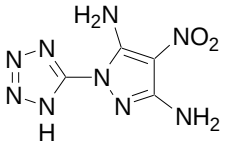
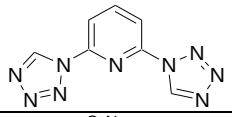
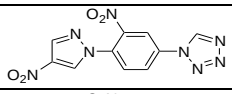
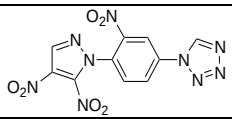
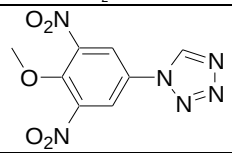
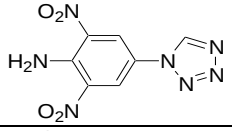
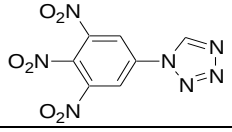
2.5.10 The heat of formation of tetrazoles

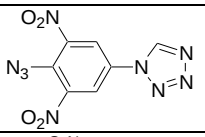
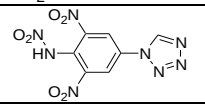
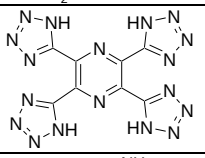
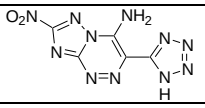
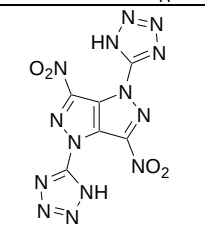
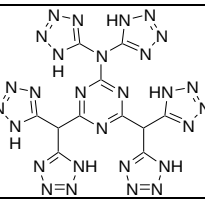
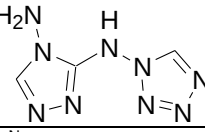
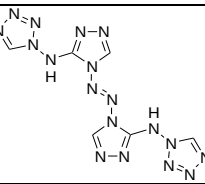
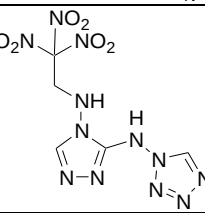
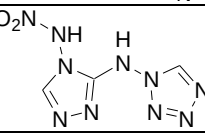
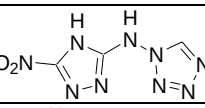
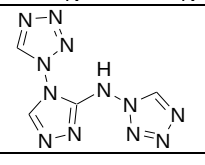
Table 103. Table summarizing the structural formulae, empirical formulae and the heat of formation of the tetrazoles.

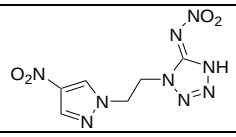
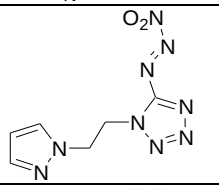
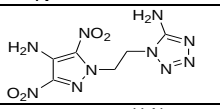
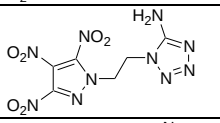
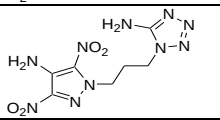
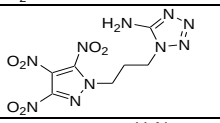
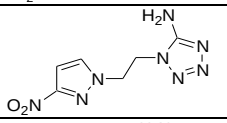
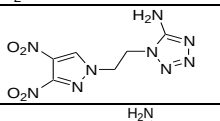
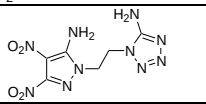
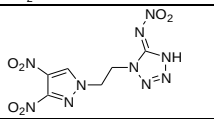
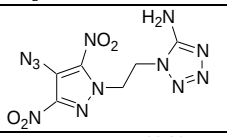
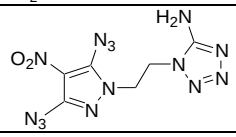
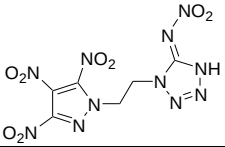
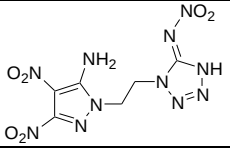
		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
12	[30]		-175,4	45.5	605	602.3	-2.7	661.55	56.55	631.9	26.9
13	[30]		-175.4	45.5	622	602.3	-19.7	661.55	39.55	631.9	9.9
14	[30]		-154.0	51.4	635	651.5	16.5	702.83	67.83	677.2	42.2

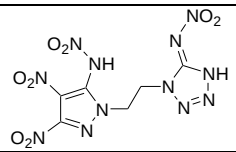
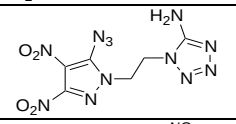
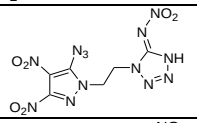
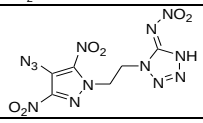
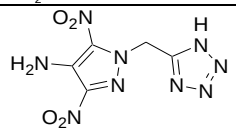
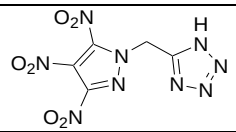
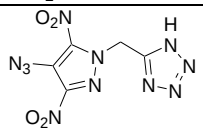
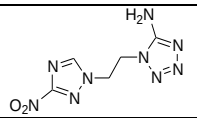
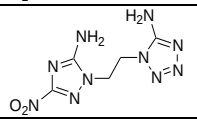
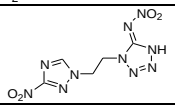
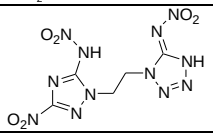
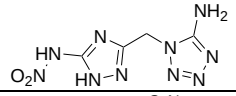
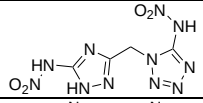
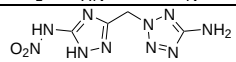
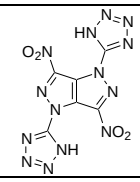
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58	[38]		-68.5	80.0	237.07	303.2	66.13	268.59	31.52	285.9	48.83
63	[38]		-67.0	81.3	382	633.1	251.1	423.71	41.71	528.4	146.4
109	[56]		-6.2	65.1	932.1	810.1	-122	661.23	-270.87	735.7	-196.4
131	[61]		-50.4	63.1	811.2	998.6	187.4	726.07	-85.13	862.3	51.1
132	[61]		-65.3	57.1	446.5	472.9	26.4	462.06	15.56	467.5	21
173	[69]		-53.3	49.4	390.7	347.9	-42.8	428.52	37.82	388.2	-2.5
174	[69]		-30.9	44.2	456.7	376.6	-80.1	383.97	-72.73	380.3	-76.4
179	[69]		-42.7	54.8	782.1	873.6	91.5	692.53	-89.57	783.1	1
223	[78]		-65.3	57.1	398	564.9	166.9	462.06	64.06	513.5	115.5
231	[80]		-61.0	61.8	721.6	887.2	165.6	728.72	7.12	808	86.4
232	[80]		-74.1	75.1	866.5	1070.2	203.7	804.38	-62.12	937.3	70.8

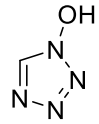
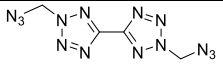
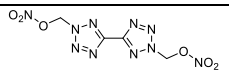
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254	[85]		17.3	39.0	284.3	334.6	50.3	157.13	-127.17	245.9	-38.4
258	[85]		5.8	40.3	247.5	312.4	64.9	171.36	-76.14	241.9	-5.6
268	[88]		-61.0	61.8	723.4	926.9	203.5	728.72	5.32	827.8	104.4
283	[92]		-122.7	58.6	882.5	941.3	58.8	753.4	-129.1	847.4	-35.1
284	[92]		-95.9	33.6	403.9	421.8	17.9	313.83	-90.07	367.8	-36.1
285	[92]		-95.9	33.6	408.7	421.8	13.1	313.83	-94.87	367.8	-40.9
286	[92]		-95.9	33.6	392.9	421.8	28.9	313.83	-79.07	367.8	-25.1
287	[92]		-84.2	31.6	302.7	243.4	-59.3	313.83	11.13	278.6	-24.1
288	[92]		-84.2	31.6	287.4	243.4	-44	181.61	-105.79	212.5	-74.9
289	[92]		-84.2	31.6	322.4	243.4	-79	181.61	-140.79	212.5	-109.9
290	[92]		-84.2	31.6	293.7	243.4	-50.3	181.61	-112.09	212.5	-81.2
291	[92]		-100.6	37.1	654.3	584.9	-69.4	548.65	-105.65	566.8	-87.5
292	[92]		-76.0	36.3	628	576.5	-51.5	526.42	-101.58	551.5	-76.5
293	[92]		-79.6	39.0	369	427.6	58.6	368.26	-0.74	397.9	28.9
294	[92]		-54.0	37.8	495.4	449.9	-45.5	377.18	-118.22	413.5	-81.9
295	[92]		-54.1	34.9	470.5	361.3	-109.2	323.71	-146.79	342.5	-128

296	[92]		-66.4	45.5	744.3	858.2	113.9	632.27	-112.03	745.2	0.9
310	[95]		-58.2	64.9	1224.3	1301.6	77.3	736.27	-488.03	1018.9	-205.4
347	[96]		-57.9	81.1	686.2	867.5	181.3	568.83	-117.37	718.2	32
364	[96]		-61.0	61.8	752.7	926.9	174.2	728.72	-23.98	827.8	75.1
377	[99]		-130.8	59.4	699.62	812.5	112.88	481.1	-218.52	646.8	-52.82
378	[99]		-105.9	67.4	747.17	895	147.83	535.53	-211.64	715.3	-31.87
379	[99]		-14.5	42.4	602	582.9	-19.1	396.52	-205.48	489.7	-112.3
380	[99]		-14.5	42.4	629	582.9	-46.1	396.52	-232.48	489.7	-139.3
381	[99]		-64.4	59.7	407.7	483.3	75.6	493.71	86.01	488.5	80.8
382	[99]		-122.7	58.6	882.5	941.3	58.8	753.4	-129.1	847.4	-35.1
383	[99]		-100.6	37.1	654.3	676.9	22.6	548.65	-105.65	612.8	-41.5
384	[99]		-76.0	36.3	628	576.5	-51.5	526.42	-101.58	551.5	-76.5
385	[99]		-84.2	31.6	302.7	335.4	32.7	181.61	-121.09	258.5	-44.2
386	[99]		-79.6	39.0	369	427.6	58.6	368.26	-0.74	397.9	28.9
387	[99]		-54.1	34.9	470.5	453.2	-17.3	323.71	-146.79	388.5	-82

388	[99]		-66.4	45.5	744.3	950.2	205.9	632.27	-112.03	791.2	46.9
389	[99]		-54.0	37.8	495.4	541.8	46.4	377.18	-118.22	459.5	-35.9
390	[99]		-81.8	71.6	1383	1778.2	395.2	1343.61	-39.39	1560.9	177.9
391	[99]		-61.0	61.8	721.6	926.9	205.3	728.72	7.12	827.8	106.2
392	[99]		-43.1	58.7	1111.5	1085.5	-26	914.35	-197.15	999.9	-111.6
393	[99]		-78.1	73.7	1833	2719.1	886.1	2025.1	192.1	2372.1	539.1
396	[99]		-81.4	75.4	862.9	550.5	-312.4	621.11	-241.79	585.8	-277.1
397	[99]		-72.7	76.3	1799.4	1586.1	-213.3	1265.19	-534.21	1425.6	-373.8
398	[99]		-33.9	50.9	1091.8	690.7	-401.1	558.48	-533.32	624.6	-467.2
399	[99]		-45.3	66.0	923.3	787.3	-136	630.03	-293.27	708.7	-214.6
400	[99]		-44.6	64.0	950.6	484.1	-466.5	555.97	-394.63	520	-430.6
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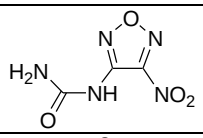
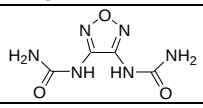
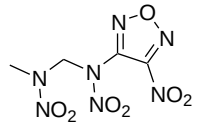
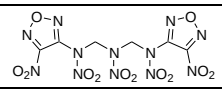
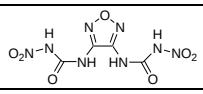
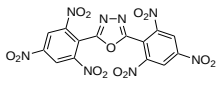
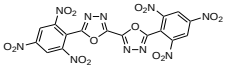
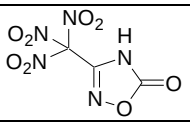
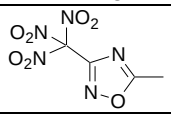
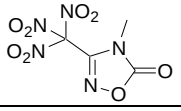
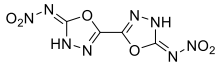
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403	[99]		-91.1	53.2	522.3	818.5	296.2	475.6	-46.7	647.1	124.8
404	[99]		-67.6	49.3	373.7	565.3	191.6	450.79	77.09	508	134.3
405	[99]		-45.8	44.6	430.7	594	163.3	406.24	-24.46	500.1	69.4
406	[99]		-80.5	47.0	364.6	540.7	176.1	430.15	65.55	485.4	120.8
407	[99]		-58.5	42.7	437.3	569.4	132.1	385.6	-51.7	477.5	40.2
408	[99]		-99.9	50.0	355.8	610.8	255	450.7	94.9	530.8	175
409	[99]		-68.4	46.8	394.7	602.4	207.7	428.47	33.77	515.4	120.7
410	[99]		-67.6	49.3	369	565.3	196.3	450.79	81.79	508	139
411	[99]		-45.8	44.6	485.6	594	108.4	383.66	-101.94	488.8	3.2
412	[99]		-56.7	54.2	784.9	1090.9	306	714.8	-70.1	902.9	118
413	[99]		-67.9	64.0	1057.8	1480.6	422.8	1023.36	-34.44		
414	[99]		-29.0	42.9	516.3	585.6	69.3	361.43	-154.87		
415	[99]		-46.2	46.8	455.8	556.9	101.1	405.98	-49.82		

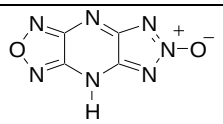
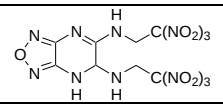
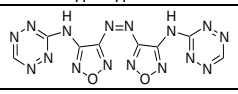
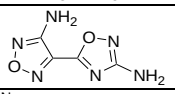
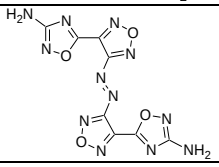
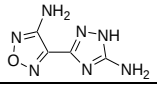
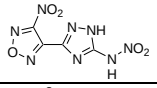
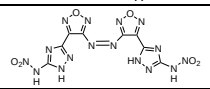
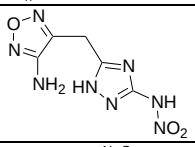
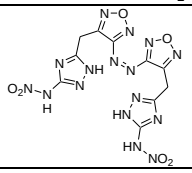
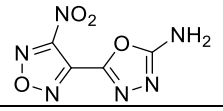
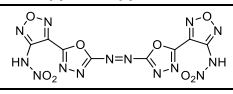
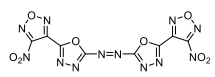
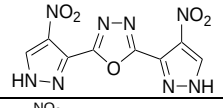
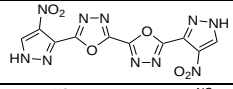
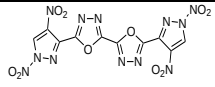
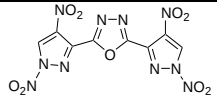
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417	[99]		-56.7	54.2	727.2	1090.9	363.7	714.8	-12.4		
418	[99]		-38.3	51.3	812.5	1082.5	270	669.99	-142.51		
419	[99]		-38.3	51.3	844.4	1082.5	238.1	669.99	-174.41		
420	[99]		-53.3	49.4	390.7	439.9	49.2	428.52	37.82		
421	[99]		-30.9	44.2	456.7	468.6	11.9	383.97	-72.73		
422	[99]		-42.7	54.8	782.1	965.6	183.5	692.53	-89.57		
423	[99]		-81.7	56.0	382.8	637.9	255.1	504.13	121.33		
424	[99]		-79.9	58.3	359.4	695.9	336.5	526.45	167.05		
425	[99]		-53.3	51.8	476.8	629.5	152.7	459.32	-17.48		
426	[99]		-33.9	50.9	511.5	709.7	198.2	490.56	-20.94		
427	[99]		-63.7	61.9	476.2	659.1	182.9	557.65	81.45		
428	[99]		-38.4	56.8	285	742.7	457.7	566.57	281.57		
429	[99]		-63.7	61.9	462.8	659.1	196.3	557.65	94.85		
454	[103]		-43.1	58.7	1111.5	1085.5	-26	914.35	-197.15		

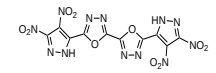
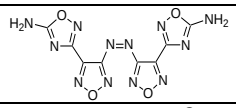
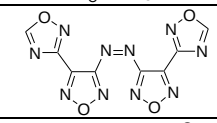
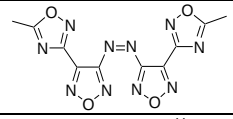
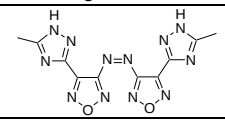
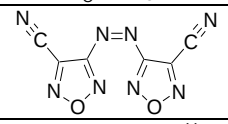
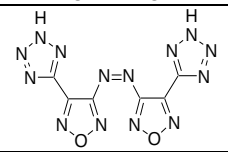
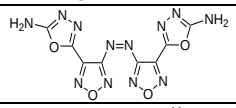
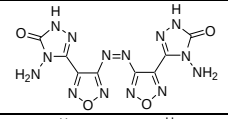
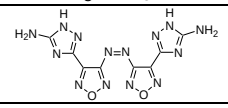
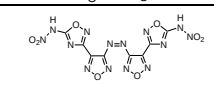
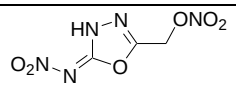
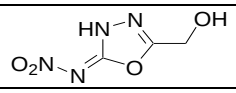
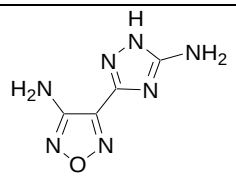
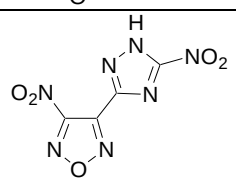
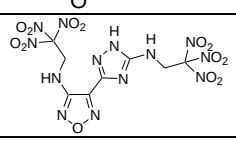
474	[106]		-37.2	65.1	252	238.1	-13.9	111.87	-140.13		
478	[107]		-64.5	79.0	1258	1596.1	338.1	1130.13	-127.87		
479	[107]		-22.2	48.6	441	600.8	159.8	248.57	-192.43		

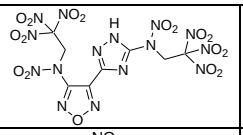
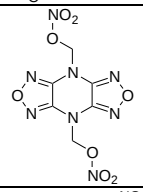
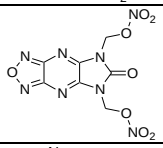
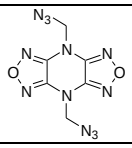
2.5.11 The heat of formation of oxazoles

Table 104. Table summarizing the structural formulae, empirical formulae and the heat of formation of the oxazoles.

		Compound	Ω_{CO2} [%]	N%	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^o(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^o(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
4	[25]		-32.4	40.5	63	-134.6	197.6	49.68	13.32	-42.5	-105.5
8	[25]		-68.8	45.2	-162	-261.1	99.1	30.18	192.18	-115.5	46.5
10	[29]		-21.3	37.3	265	172.9	92.1	83.91	181.09	128.4	-136.6
11	[29]		-7.3	38.5	603	391.8	211.2	195.66	407.34	293.7	-309.3
16	[25]		-17.4	34.1	-22	-183.9	161.9	116.31	138.31	-33.8	-11.8
22	[32] [33]		-55.3	22.8	266.55	232.1	34.45	114.41	152.14	173.3	-93.25
23	[32]		-57.1	25.0	197.6	409.9	212.3	180.15	17.45	295	97.4
96	[54]		10.2	29.8	142	-257.9	399.9	-171.82	313.82	-214.9	-356.9
97	[54]		-17.2	30.0	43	78.1	35.1	-59.9	102.9	9.1	-33.9
98	[54]		-9.6	28.1	133	-23.5	156.5	-183.34	316.34	-103.4	-236.4
123	[58]		-18.6	43.4	278.6	190.5	88.1	66.11	212.49	128.3	-150.3

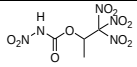
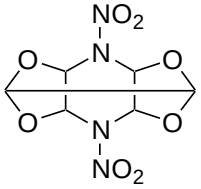
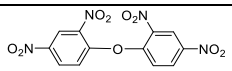
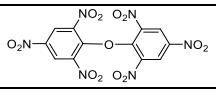
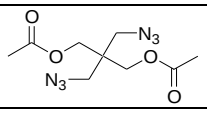
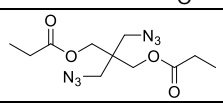
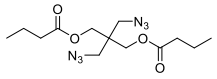
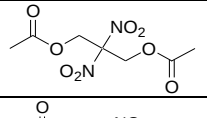
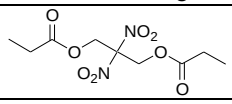
137	[63]		-58.1	54.7	597	475.7	121.3	521.64	75.36	498.7	-98.3
138	[63]		-23.3	35.0	110	138	28	162.52	52.52	150.3	40.3
162	[67]		-71.9	62.9	1654.3	1283.9	370.4	895.13	759.17	1089.5	-564.8
191	[71]		-76.1	50.0	186.6	246.9	60.3	155.73	30.87	201.3	14.7
193	[71]		-67.4	50.6	705.5	868.1	162.6	334.43	371.07	601.3	-104.2
194	[71]		-91.0	58.7	290.8	279.8	11	325.54	34.74	302.7	11.9
197	[73]		-26.4	46.3	524.66	322.8	201.86	289.91	234.75	306.4	-218.26
198	[73]		-45.7	53.3	1274.4	1121.9	152.5	691.89	582.51	906.9	-367.5
199	[73]		-70.8	49.5	449	364.6	84.4	313.82	135.18	339.2	-109.8
200	[73]		-64.2	50.0	1206.2	1072.8	133.4	650.61	555.59	861.7	-344.5
220	[77]		-40.4	42.4	219.4	236	16.6	111.18	108.22	173.6	-45.8
221	[77]		-34.1	-34.1	786.1	1026.3	240.2	352.27	433.83	689.3	-96.8
222	[77]		-32.6	42.9	854.2	790.8	63.4	245.33	608.87	518.1	-336.1
262	[87]		-71.2	38.4	521.57	327.3	194.27	365.13	156.44	346.2	-175.37
263	[87]		-71.1	38.9	639.79	505.1	134.69	430.87	208.92	468	-171.79
264	[87]		-39.1	37.3	762.11	660	102.11	427.59	334.52	543.8	-218.31
265	[87]		-33.5	36.7	882.44	482.2	400.24	361.85	520.59	422	-460.44

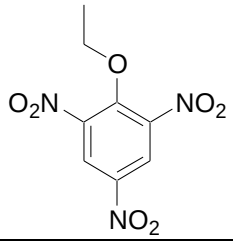
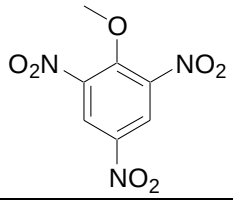
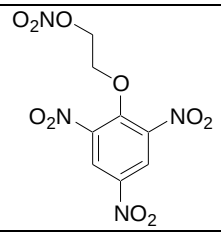
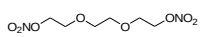
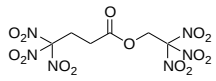
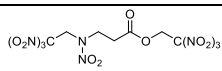
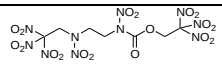
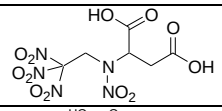
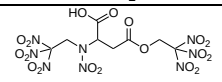
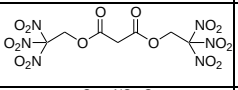
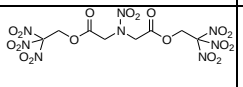
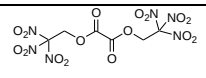
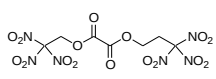
266	[87]		-39.1	37.3	602.65	488.2	114.45	386.41	216.24	437.3	-165.35
305	[95]		-67.4	50.6	711.2	828.5	117.3	334.43	376.77	581.5	-129.7
306	[95]		-68.8	46.4	832.9	807.7	25.2	289.79	543.11	548.7	-284.2
307	[95]		-92.1	42.4	696.5	835.2	138.7	225.57	470.93	530.4	-166.1
308	[95]		-107.2	51.2	864.3	1019.7	155.4	565.19	299.11	792.4	-71.9
309	[95]		-74.0	51.8	933.9	810.9	123	654.87	279.03	732.9	-201
310	[95]		-58.2	64.9	1224.3	1301.6	77.3	736.27	488.03	1018.9	-205.4
311	[95]		-67.4	50.6	684.1	828.5	144.4	266.14	417.96	547.3	-136.8
312	[95]		-66.3	54.1	769.9	793.8	23.9	427.17	342.73	610.5	-159.4
313	[95]		-82.4	59.4	920.8	262	658.8	674.05	246.75	468	-452.8
314	[95]		-34.1	46.4	1038	964.9	73.1	352.27	685.73	658.6	-379.4
370	[98]		-11.7	34.1	26.13	-21.4	47.53	-152.23	178.36	-86.8	-112.93
376	[98]		-40.0	35.0	-75.57	-107.6	32.03	-161.48	85.91	-134.5	-58.93
432	[101]		-91.0	58.7	404.03	366.9	37.13	325.54	78.49	346.2	-57.83
433	[101]		-24.7	43.2	499.91	234.2	265.71	236.44	263.47	235.3	-264.61
434	[101]		-21.1	36.9	451.38	340.8	110.58	200.28	251.1	270.5	-180.88

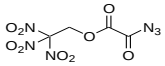
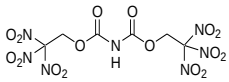
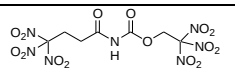
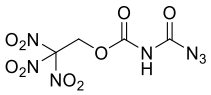
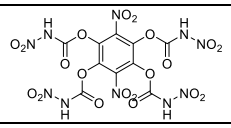
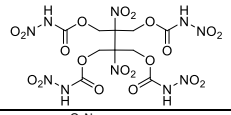
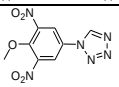
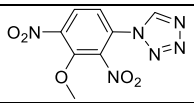
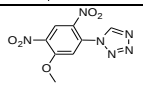
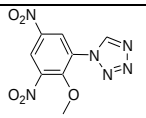
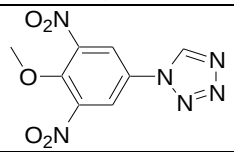
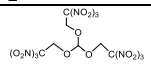
435	[101]		-4.1	36.0	648.95	446.6	202.35	206.88	442.07	326.7	-322.25
466	[105]		-30.4	35.4	276.6	185.4	91.2	-45.93	322.53	69.7	-206.9
467	[105]		-39.0	34.1	-7.2	-3.4	3.8	-25.84	18.64	-14.6	-7.4
470	[105]		-69.5	60.9	1100.2	1180.7	80.5	835.63	264.57	1008.2	-92

2.5.12 The heat of formation of ethers and esters

Table 105. Table summarizing the structural formulae, empirical formulae and the heat of formation of the ethers and esters.

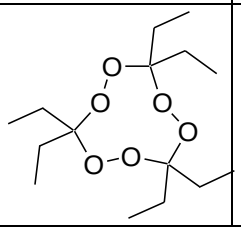
		Compound	Ω_{CO2} [%]	N%	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^0(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^0(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
2	[22]		-2.8	24.7	-368	-332.1	35.9	-431.07	-63.07	-381.6	-13.6
3	[23] [24]		-42.7	21.4	-541	-35.5	505.5	-372.31	168.69	-203.9	337.1
24	[34]		-82.2	16.0	-168.1	55.1	223.2	-39.09	129.01	8	176.1
25	[34]		-47.3	19.1	-132.9	-69	63.9	-83.55	49.35	-76.3	56.6
26	[35]		-124.3	31.1	-242	-65.3	176.7	-108.82	133.18	-87.1	154.9
27	[35]		-144.8	28.2	-296	-114.5	181.5	-150.1	145.9	-132.3	163.7
28	[35]		-161.8	25.8	-349	-163.6	185.4	-191.38	157.62	-177.5	171.5
29	[35]		-70.3	11.2	-872	-810.8	61.2	-684.66	187.34	-747.7	124.3
30	[35]		-97.8	10.1	-926	-859.9	66.1	-725.94	200.06	-792.9	133.1

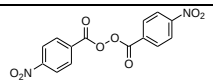
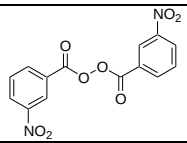
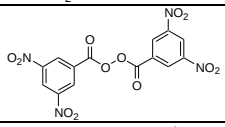
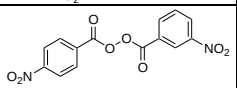
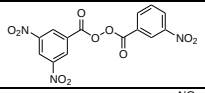
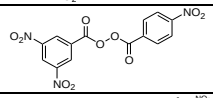
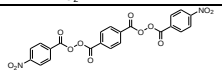
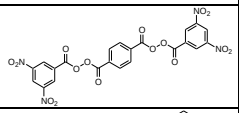
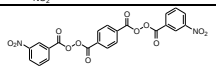
39	[26]		-77.8	16.3	-154.5	-222.2	-67.7	-170.83	-16.33	-196.5	-42
40	[38]		-62.5	17.3	-187.2	-197.6	-10.4	-150.19	37.01	-173.9	13.3
41	[38]		-45.3	17.6	-277.4	-277.3	0.1	-313.81	-36.41	-295.6	-18.2
44	[38]		-66.6	11.7	-656.9	-605.8	51.1	-717.57	-60.67	-661.7	-4.8
45	[38]		-4.1	21.8	-421.7	-516.8	-95.1	-482.52	-60.82	-499.7	-78
79	[50]		-7.0	24.4	-398.4	-369.2	29.2	-446.39	-47.99	-407.8	-9.4
81	[50]		0.0	26.9	-292.8	-224.6	68.2	-389.62	-96.82	-307.1	-14.3
82	[50]		-16.4	20.5	-824.5	-782	42.5	-840.91	-16.41	-811.5	13
83	[50]		-6.3	22.2	-777.5	-666.2	111.3	-814.41	-36.91	-740.3	37.2
94	[53]		-3.7	19.5	-759	-813.8	-54.8	-736.45	22.55	-775.1	-16.1
95	[53]		-6.3	22.2	-691	-476	215	-700.32	-9.32	-588.2	102.8
113	[57]		7.7	20.2	-668	-694.1	-26.1	-715.81	-47.81	-705	-37
114	[57]		-3.7	19.5	-705.2	-940.6	-235.4	-736.45	-31.25	-838.5	-133.3

115	[57]		0.0	30.2	-170.5	-287.4	-116.9	-131	39.5	-209.2	-38.7
116	[57]		5.6	22.7	-775.2	-509.4	265.8	-662.34	112.86	-585.9	189.3
117	[57]		-9.3	22.8	-645.2	-693.8	-48.6	-478.28	166.92	-586	59.2
118	[57]		-2.7	33.5	-271	-118.5	152.5	-77.53	193.47	-98	173
129	[60]		-5.5	24.0	-1275	-1125.2	149.8	-854.39	420.61	-989.8	285.2
130	[60]		-16.2	23.7	-1441.5	-1355.9	85.6	-1051.07	390.43	-1203.5	238
287	[92]		-84.2	31.6	302.7	243.4	-59.3	313.83	11.13	278.6	-24.1
288	[92]		-84.2	31.6	287.4	243.4	-44	181.61	-105.79	212.5	-74.9
289	[92]		-84.2	31.6	322.4	243.4	-79	181.61	-140.79	212.5	-109.9
290	[92]		-84.2	31.6	293.7	243.4	-50.3	181.61	-112.09	212.5	-81.2
385	[99]		-84.2	31.6	302.7	335.4	32.7	181.61	-121.09	258.5	-44.2
482	[110]		10.1	22.8	-1021	-519.9	501.1	-781.13	239.87	-650.5	370.5

2.5.13 The heat of formation of peroxides

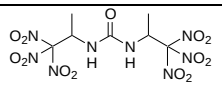
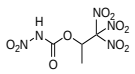
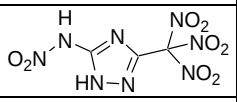
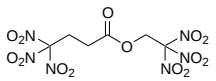
Table 106. Table summarizing the structural formulae, empirical formulae and the heat of formation of the peroxides.

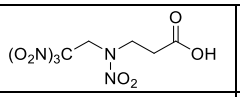
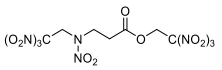
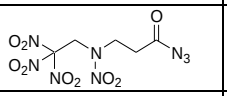
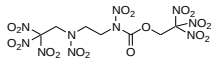
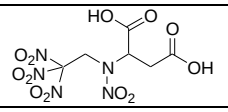
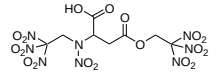
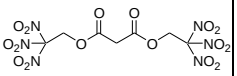
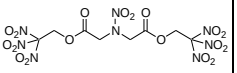
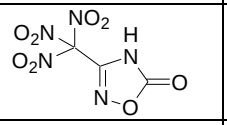
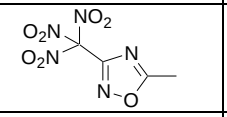
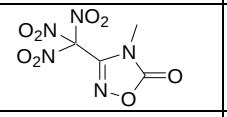
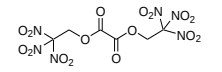
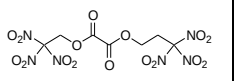
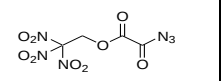
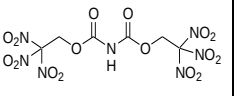
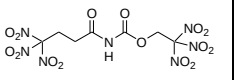
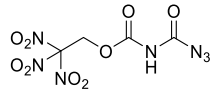
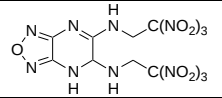
		Compound	Ω_{CO2} [%]	N%	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^0(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^0(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
49	[42]		-198.3	0.0	-583.8	-744.8	-161	-1104.05	-520.25	-924.4	-340.6

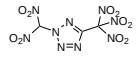
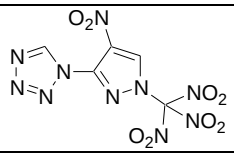
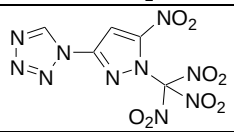
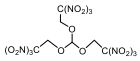
67	[48]		-115.6	8.4	-415	-353.4	61.6	-370.27	44.73	-361.8	53.2
68	[48]		-115.6	8.4	-406	353.4	759.4	-370.27	35.73	-8.4	397.6
69	[48]		-72.0	13.3	-410	-358	52	-414.73	-4.73	-386.4	23.6
70	[48]		-115.6	8.4	-404	-353.4	50.6	-370.27	33.73	-361.8	42.2
71	[48]		-91.2	11.1	-405	-361.8	43.2	-392.5	12.5	-377.2	27.8
72	[48]		-91.2	11.1	-405	-361.8	43.2	-392.5	12.5	-377.2	27.8
73	[48]		-122.5	5.6	-761	-604.1	156.9	-776.91	-15.91	-690.5	70.5
74	[48]		-90.1	9.6	-752	-620.9	131.1	-821.37	-69.37	-721.1	30.9
75	[48]		-122.5	5.6	-752	-604.1	147.9	-776.91	-24.91	-690.5	61.5

2.5.14 The heat of formation of molecules with -C(NO2)3 groups present

Table 107. Table summarizing the structural formulae, empirical formulae and the heat of formation of the molecules with -C(NO2)3 groups present.

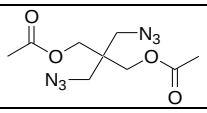
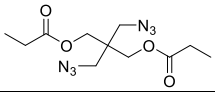
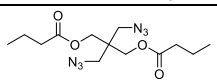
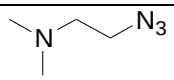
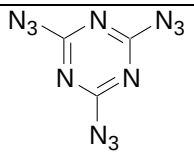
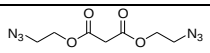
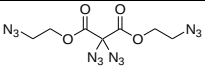
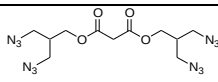
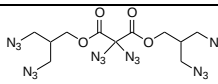
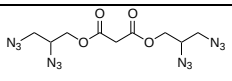
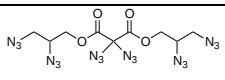
		Compound	Ω_{CO2} [%]	N%	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^0(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^0(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
1	[22]		-23.2	27.1	-367	-379.3	-12.3	-354.36	12.64	-366.8	0.2
2	[22]		-2.8	24.7	-368	-332.1	35.9	-431.07	-63.07	-381.6	-13.6
9	[28]		5.8	40.3	269	278.6	9.6	173.26	-95.74	225.9	-43.1
45	[38]		-4.1	21.8	-421.7	-516.8	-95.1	-482.52	-60.82	-499.7	-78

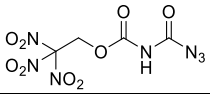
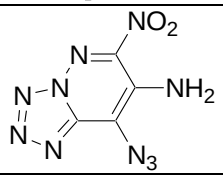
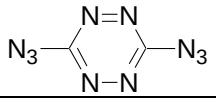
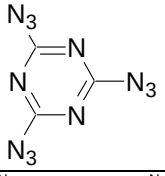
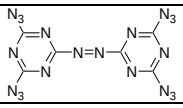
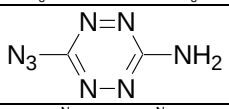
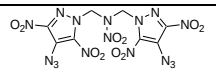
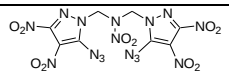
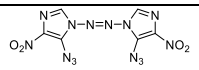
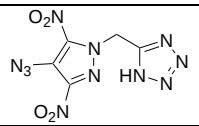
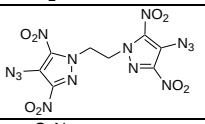
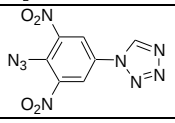
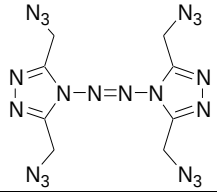
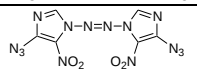
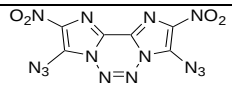
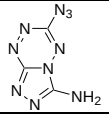
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79	[50]		-7.0	24.4	-398.4	-369.2	29.2	-446.39	-47.99	-407.8	-9.4
80	[50]		-19.9	34.8	98.3	259.4	161.1	138.42	40.12	198.9	100.6
81	[50]		0.0	26.9	-292.8	-224.6	68.2	-389.62	-96.82	-307.1	-14.3
82	[50]		-16.4	20.5	-824.5	-782	42.5	-840.91	-16.41	-811.5	13
83	[50]		-6.3	22.2	-777.5	-666.2	111.3	-814.41	-36.91	-740.3	37.2
94	[53]		-3.7	19.5	-759	-813.8	-54.8	-736.45	22.55	-775.1	-16.1
95	[53]		-6.3	22.2	-691	-476	215	-700.32	-9.32	-588.2	102.8
96	[54]		10.2	29.8	142	-257.9	-399.9	-171.82	-313.82	-214.9	-356.9
97	[54]		-17.2	30.0	43	78.1	35.1	-59.9	-102.9	9.1	-33.9
98	[54]		-9.6	28.1	133	-23.5	-156.5	-183.34	-316.34	-103.4	-236.4
113	[57]		7.7	20.2	-668	-694.1	-26.1	-715.81	-47.81	-705	-37
114	[57]		-3.7	19.5	-705.2	-940.6	-235.4	-736.45	-31.25	-838.5	-133.3
115	[57]		0.0	30.2	-170.5	-287.4	-116.9	-131	39.5	-209.2	-38.7
116	[57]		5.6	22.7	-775.2	-509.4	265.8	-662.34	112.86	-585.9	189.3
117	[57]		-9.3	22.8	-645.2	-693.8	-48.6	-478.28	166.92	-586	59.2
118	[57]		-2.7	33.5	-271	-118.5	152.5	-77.53	193.47	-98	173
138	[63]		-23.3	35.0	110	138	28	162.52	52.52	150.3	40.3

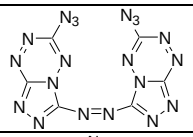
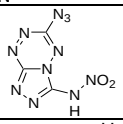
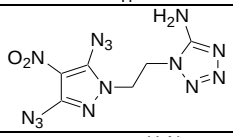
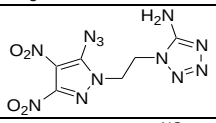
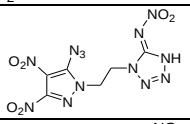
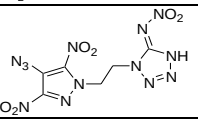
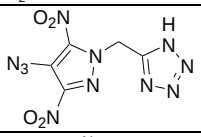
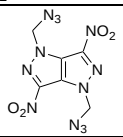
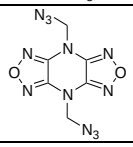
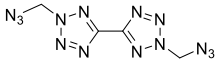
254	[85]		17.3	39.0	284.3	334.6	50.3	157.13	-127.17	245.9	-38.4
379	[99]		-14.5	42.4	602	582.9	-19.1	396.52	-205.48	489.7	-112.3
380	[99]		-14.5	42.4	629	582.9	-46.1	396.52	-232.48	489.7	-139.3
482	[110]		10.1	22.8	-1021	-519.9	501.1	-781.13	239.87	-650.5	370.5

2.5.15 The heat of formation of azides

Table 108. Table summarizing the structural formulae, empirical formulae and the heat of formation of the azides.

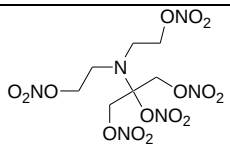
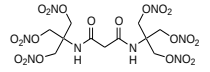
		Compound	Ω_{CO2} [%]	N%	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^0(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^0(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
26	[35]		-124.3	31.1	-242	-65.3	176.7	-108.82	133.18	-87.1	154.9
27	[35]		-144.8	28.2	-296	-114.5	181.5	-150.1	145.9	-132.3	163.7
28	[35]		-161.8	25.8	-349	-163.6	185.4	-191.38	157.62	-177.5	171.5
46	[24]		-182.2	49.1	277	279.1	2.1	239.44	-37.56	259.3	-17.7
47	[24] [40]		-47.0	82.3	1053	1412.8	359.8	1100.11	47.11	1256.5	203.5
84	[51]		99.1	34.7	-176	174	350	-58.79	117.21	57.6	233.6
85	[51]		-69.1	51.8	542	936.5	394.5	528.06	-13.94	732.3	190.3
86	[51]		-109.4	44.2	466	838.2	372.2	443.69	-22.31	640.9	174.9
87	[51]		-86.5	54.5	1187	1600.6	413.6	1030.54	-156.46	1315.6	128.6
88	[51]		-90.8	47.7	440	887.3	447.3	484.97	44.97	686.1	246.1
89	[51]		-70.0	58.1	1160	1649.8	489.8	1071.82	-88.18	1360.8	200.8

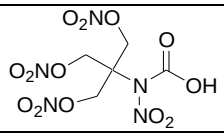
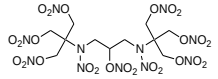
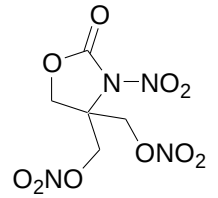
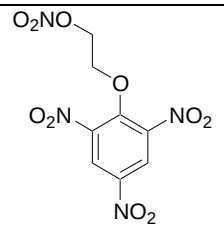
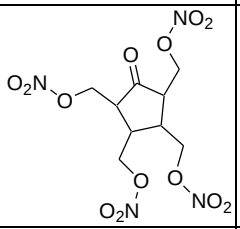
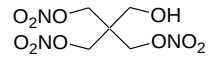
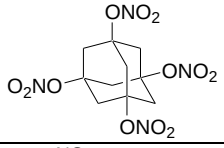
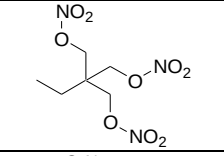
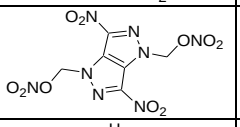
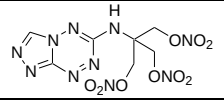
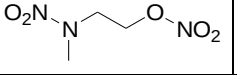
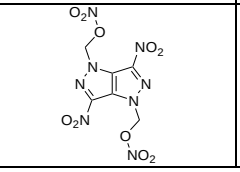
118	[57]		-2.7	33.5	-271	-118.5	152.5	-77.53	193.47	-98	173
131	[61]		-50.4	63.1	811.2	998.6	187.4	726.07	-85.13	862.3	51.1
145	[40]		-39.0	85.4	1130	1206.1	76.1	867.21	-262.79	1036.7	-93.3
146	[40]		-47.0	82.3	1053	1412.8	359.8	1100.11	47.11	1256.5	203.5
147	[40]		-54.5	79.5	2171	2022.5	-148.5	1747.35	-423.65	1884.9	-286.1
148	[40]		-57.9	81.1	686.2	882.8	196.6	603.2	-83	743	56.8
154	[65]		-26.4	46.3	1108.2	1220.5	112.3	884.26	-223.94	1052.4	-55.8
155	[65]		-26.4	46.3	1118.7	1220.5	101.8	884.26	-234.44	1052.4	-66.3
172	[68]		-43.1	58.7	1169.1	1379.9	210.8	960.45	-208.65	1170.2	1.1
179	[69]		-42.7	54.8	782.1	873.6	91.5	692.53	-89.57	783.1	1
188	[70]		-37.7	46.2	1013.9	1140.3	126.4	827.49	-186.41	983.9	-30
296	[92]		-66.4	45.5	744.3	858.2	113.9	632.27	-112.03	745.2	0.9
317	[95]		-83.3	72.9	1940	2170.5	230.5	1601.87	-338.13	1886.2	-53.8
326	[95]		-43.1	58.7	1289.7	1379.9	90.2	960.45	-329.25	1170.2	-119.5
329	[96]		-38.5	59.0	1318.8	1437.6	118.8	1112.95	-205.85	1275.3	-43.5
355	[96]		-62.9	78.6	913.6	1034	120.4	801.73	-111.87	917.9	4.3

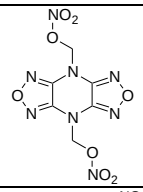
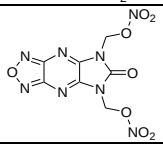
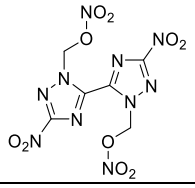
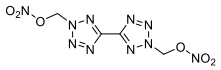
356	[96]		-54.5	79.5	2194.6	2335	140.4	1626.43	-568.17	1980.7	-213.9
357	[96]		-32.3	69.1	951.8	1056.3	104.5	810.65	-141.15	933.5	-18.3
413	[99]		-67.9	64.0	1057.8	1480.6	422.8	1023.36	-34.44	1252	194.2
417	[99]		-56.7	54.2	727.2	1090.9	363.7	714.8	-12.4	902.9	175.7
418	[99]		-38.3	51.3	812.5	1082.5	270	669.99	-142.51	876.2	63.7
419	[99]		-38.3	51.3	844.4	1082.5	238.1	669.99	-174.41	876.2	31.8
422	[99]		-42.7	54.8	782.1	965.6	183.5	692.53	-89.57	829.1	47
469	[105]		-51.9	54.5	946.3	1056.6	110.3	867.77	-78.53	962.2	15.9
470	[105]		-69.5	60.9	1100.2	1180.7	80.5	835.63	-264.57	1008.2	-92
478	[107]		-64.5	79.0	1258	1596.1	338.1	1130.13	-127.87	1363.1	105.1

2.5.16 The heat of formation of nitrate esters

Table 109. Table summarizing the structural formulae, empirical formulae and the heat of formation of the nitrate esters.

		Compound	Ω_{CO2} [%]	N%	ΔH_f^0(kJ/mol)	ΔH_f^0(kJ/mol) Keshavarz	Deviation Keshavarz [kJ/mol]	ΔH_f^0(kJ/mol) Joback	Deviation Joback [kJ/mol]	ΔH_f^0(kJ/mol) Rose Hybrid	Deviation Rose Hybrid [kJ/mol]
31	[36]		-29.5	20.0	-530.6	-543.4	-12.8	-843.93	-313.33	-693.7	-163.1
32	[36]		-27.8	19.3	-1044.4	-1024.8	19.6	-1095.99	-51.59	-1060.4	-16

33	[36]		-15.6	20.3	-614.8	-683.3	-68.5	-869.55	-254.75	-776.4	-161.6
34	[36]		-12.5	21.9	-637.8	-695.5	-57.7	-1180.47	-542.67	-938	-300.2
35	[36]		-17.0	19.9	-752.4	-318.5	433.9	-314.69	437.71	-316.6	435.8
41	[38]		-45.3	17.6	-277.4	-277.3	0.1	-313.81	-36.41	-295.6	-18.2
44	[38]		-66.6	11.7	-656.9	-605.8	51.1	-717.57	-60.67	-661.7	-4.8
56	[38]		-45.8	-8.3	-676.2	-698.4	-22.2	-892.82	-216.62	-795.6	-119.4
60	[38]		-26.6	15.5	-560.7	-629.2	-68.5	-736.45	-175.75	-682.8	-122.1
77	[49]		-58.9	14.7	-581	-446.9	134.1	-568.79	12.21	-507.8	73.2
119	[26]		-50.5	15.6	-480	-451.2	28.8	-604.86	-124.86	-528	-48
341	[96]		-18.4	32.2	133.7	61.3	-72.4	-13.79	-147.49	23.8	-109.9
350	[96]		-38.3	37.2	246	251.2	5.2	14.83	-231.17	133	-113
460	[26]		-43.6	25.5	-150	-125.7	24.3	-191.46	-41.46	-158.6	-8.6
465	[105]		-18.4	32.2	133.7	61.3	-72.4	-13.79	-147.49	23.8	-109.9

466	[105]		-30.4	35.4	276.6	185.4	-91.2	-45.93	-322.53	69.7	-206.9
467	[105]		-39.0	34.1	-7.2	-3.4	3.8	-25.84	-18.64	-14.6	-7.4
468	[105]		-17.0	37.2	113.6	179.5	65.9	97.25	-16.35	138.4	24.8
479	[107]		-22.2	48.6	441	600.8	159.8	248.57	-192.43	424.7	-16.3

2.5.17 Summary of the heat of formation methods

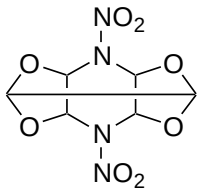
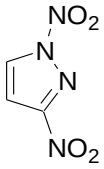
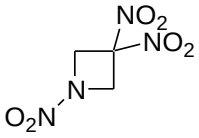
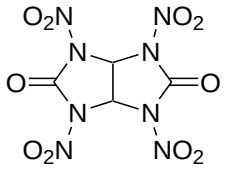
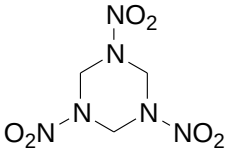
Table 110. Table summarizing the Mean absoulute percent deviation (MAPE); R^2, and Pearson value of all in RoseBoom Implemented values to predict the heat of formation.

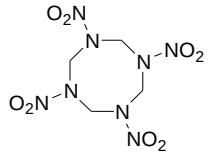
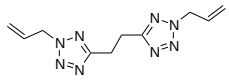
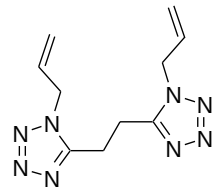
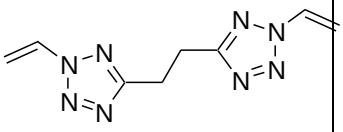
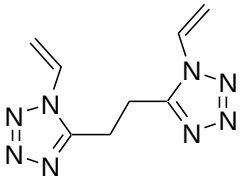
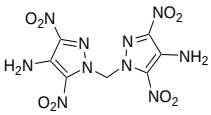
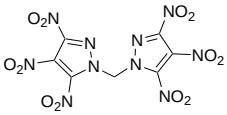
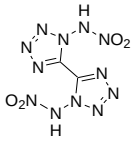
Compound class	MAPE Keshavarz [kJ/mol]	Pearson Keshavarz	R^2 Keshavarz	MAPE Joback [kJ/mol]	Pearson Joback	R^2 Joback	MAPE RoseHybrid [kJ/mol]	Pearson RoseHybrid	R^2 RoseHybrid
Neutral molecules	129.7	0.95	0.90	157.2	0.94	0.88	118.4	0.96	0.92
aromatic	126.9	0.94	0.88	165.9	0.92	0.85	119.7	0.95	0.9
Non aromatic	162.2	0.90	0.69	119.5	0.94	0.88	123.7	0.95	0.9
Cyclic nitramines	167.2	0.91	0.83	123.3	0.91	0.83	140.56	0.87	0.76
Acyclic nitamines	120.3	0.97	0.94	173.8	0.95	0.90	122.2	0.96	0.92
Molecules with Nitro groups	117.4	0.95	0.90	146.8	0.94	0.88	111.2	0.96	0.92
Molecules without Nitro groups	180.0	0.93	0.86	194.8	0.93	0.86	144.3	0.95	0.9
Diazoles	105.9	0.92	0.85	131.7	0.87	0.76	91.5	0.93	0.86
Triazoles	160.8	0.88	0.77	218.2	0.86	0.74	168.7	0.89	0.79
Tetrazoles	148.7	0.87	0.76	121	0.9	0.81	103.8	0.90	0.81
Oxazole	139.3	0.92	0.85	281.7	0.88	0.77	179.0	0.95	0.9
Ethers and Esters	120.3	0.88	0.56	112.0	0.96	0.92	104.7	0.96	0.92
Peroxides	161.0	0.62	0.38	77.4	0.79	0.62	107.6	0.76	0.58
Molecules with $-C(NO_2)_3$ Groups	115.0	0.93	0.86	103.6	0.96	0.92	93.0	0.96	0.92

Azides	217.9	0.97	0.94	155.0	0.98	0.96	110.4	0.98	0.96
Nitrate esters	73.3	0.96	0.92	176.0	0.9	0.81	108.4	0.94	0.88

3 RoseIncrements for Joback

Table 111. The calculation of the RoseIncrement for Nitrogen-Atoms with three neighbours in a ring.

Molecule	Reference	ΔH_f^0(kJ/mol) Joback	ΔH_f^0(kJ/mol)	No. -N< ring	ΔH_f^0(kJ/mol) - ΔH_f^0(kJ/mol) Joback	(ΔH_f^0(kJ/mol) / (-N< ring)
	[23] [24]	**-565.47**	-541	2	24.47	46.38
	[37]	**41.28**	189.1	1	147.82	216.11
	[41]	**-105.3**	62.2	1	167.5	235.79
	[38]	**-416.79**	41.8	4	458.59	131.72
	[26]	**-280.11**	86.3	3	366.41	122.136667

	[38]	**-373.48**	92.8	4	466.28	116.57
	[30]	**468.39**	605	2	136.61	102.45
	[30]	**468.39**	622	2	153.61	110.95
	[30]	**509.67**	635	2	125.33	96.81
	[30]	**509.67**	643	2	133.33	100.81
	[31]	**126.95**	205	2	78.05	73.17
	[31]	**37.85**	379	2	341.15	204.72
	[56]	**468.07**	932.1	2	464.03	266.16

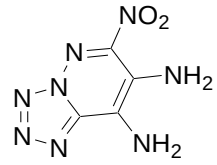
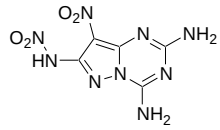
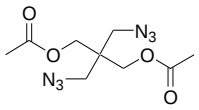
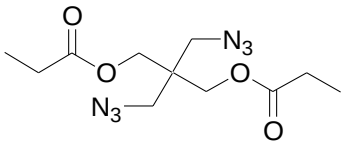
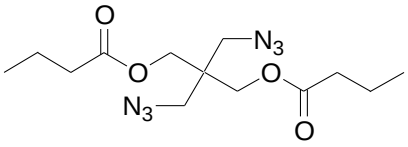
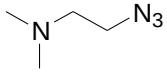
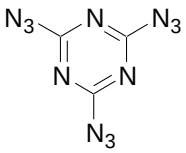
	[61]	**365.48**	446.5	1	81.02	149.31
	[62]	**343.29**	314	1	-29.29	39
I(-N<)=96.5796111						

Table 112. The calculation of the RoseIncrement for azide groups.

Molecule	Ref.	ΔH_f^0(kJ/mol) Joback	ΔH_f^0(kJ/mol)	No. -N_3 ring	ΔH_f^0(kJ/mol) - ΔH_f^0(kJ/mol) Joback	(ΔH_f^0(kJ/mol) - ΔH_f^0(kJ/mol) Joback)
	[35]	-545.58	-242	2	303.58	151.79
	[35]	-586.86	-296	2	290.86	145.43
	[35]	-628.14	-349	2	279.14	139.57
	[24]	-2.55	277	1	279.55	279.55
	[24]	374.14	914.6	3	540.46	180.153333

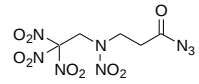
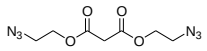
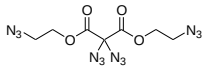
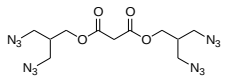
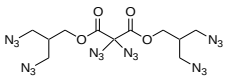
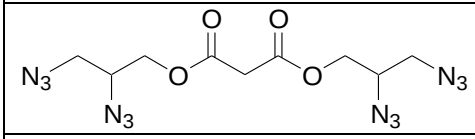
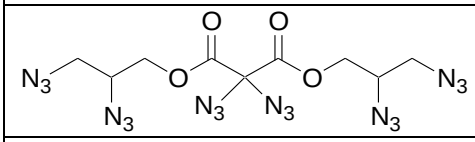
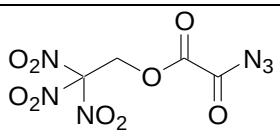
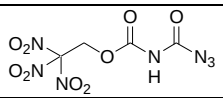
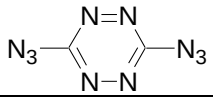
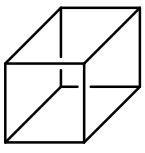
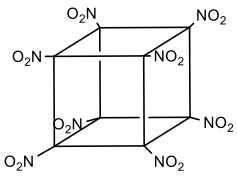
	[50]	-79.96	98.3	1	178.26	178.26
	[51]	-542.77	542	2	1084.77	542.385
	[51]	-542.77	466	4	1008.77	252.1925
	[51]	-524.27	1187	4	1711.27	427.8175
	[51]	-421.4	440	6	861.4	143.566667
	[51]	-482.99	1160	4	1642.99	410.7475
	[51]	-380.12	542	6	922.12	153.686667
	[57]	-372.99	-170.5	1	202.49	202.49
	[57]	-319.52	-271	1	48.52	48.52
	[40]	383.23	**1130**	2	746.77	373.385
I(-N_3)=241.969611						

Table 113. The calculation of the RoseIncrement for the Cuban correction.

Cuban	ΔH_f^o(kJ/mol)	ΔH_f^o(kJ/mol) Joback	ΔH_f^o(kJ/mol) -ΔH_f^o(kJ/mol) Joback
	541.8 [5]	137.65	404.15
	594 [6]	173.49	420.51
Cuban correction= 412.33			

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5 List of Tables

Table 1. Variables and factors used in the Holden method.[12]**Fehler! Textmarke nicht definiert.**

Table 2. Molecular moieties which increase or decrease ρ^+:..... 14

Table 3. Molecular moieties which increase or decrease ρ^-. 14

Table 4. Molecular moieties which influence IMP. [19] 15

Table 5. Molecular moieties influencing IMP. [19] 15

Table 6. Compositions affecting IMP and DMP. [19] 16

Table 7. Molecular moieties influencing $\Delta_f H^0_{add,DHC.}$ [20] 16

Table 8. Molecular moieties influencing $\Delta_f H^0_{nonadd,DHC.}$ [20] 17

Table 9. Molecular moieties influencing $\Delta_f H^0_{add,IHC.}$ [20] 17

Table 10. Molecular moieties influencing $\Delta_f H^0_{nonadd,IHC.}$ [20] 17

Table 11 . Molecular moieties and their values in the Joback method..... 18

Table 12. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C-J)}$, heat of formation and density for the selected molecules at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 20

Table 13. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C-J)}$, heat of formation and density for the selected neutral compounds at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1©..... 90

Table 14. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C-J)}$, heat of formation and density for the selected ionic compounds at

the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 138

Table 15. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected zwitterionic compounds at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 154

Table 16. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected aromaticcompounds at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 154

Table 17. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected non-aromatic compounds at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 221

Table 18. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected cyclic nitramines at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 232

Table 19. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected acyclic nitramines at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 235

Table 20. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected molecules containing nitro groups at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 251

Table 21. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected molecules not containing a nitro groups at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 305

Table 22. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected diazoles at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 321

Table 23. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected triazoles at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 340

Table 24. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected tetrazoles at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 358

Table 25. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected diazoles at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 377

Table 26. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected peroxides at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 392

Table 27. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected esthers and ethers at

the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 394

Table 28. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected nitroxides at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 400

Table 29. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected molecules with an -$C(NO_2)_3$ group present at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 407

Table 30. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected azides at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 411

Table 31. Table summarizing the structural formulae, empirical formulae, oxygen balances and parameters used to calculate the specific impulse (I_{sp}), detonation velocity (VoD) and detonation pressure ($P_{C\text{-}J)}$, heat of formation and density for the selected nitrate esters at the density indicated. All calculations were performed using the named method implemented in the program RoseBoom2.1© 417

Table 32. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the all compounds. 422

Table 33. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the neutral compounds. 457

Table 34. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the ionic compounds. 481

Table 35. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the zwitterionic compounds 489

Table 36. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the aromatic compounds. 489

Table 37. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the non-aromatic compounds. 520

Table 38. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the cyclic nitramines. 525

Table 39. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the acyclic nitramines. 527

Table 40. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the molecules containing nitro groups. 535

Table 41. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the compounds not containing nitro groups. 562

Table 42. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the diazoles. 570

Table 43. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the triazoles. 580

Table 44. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the tetrazoles. 590

Table 45. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the oxazoles. 600

Table 46. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the ethers and esters. 608

Table 47. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the peroxides. 610

Table 48. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the nitroxides. 611

Table 49. Table summarizing the structural formulae, empirical formulae and the detonation velocities of molecules with an -$C(NO_2)_3$ group present. 615

Table 50. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the azides. 618

Table 51. Table summarizing the structural formulae, empirical formulae and the detonation velocities of the nitrate esters. 620

Table 52. Table summarizing the Mean absoulute percent deviation (MAPE); R^2, and Pearson value of all in RoseBoom Implemented values to predict the detonation velocity. 623

Table 53. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the all compounds. 624

Table 54. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the neutral compounds. 659

Table 55. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the ionic compounds. 683

Table 56. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the zwitterionic compounds. 691

Table 57. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the aromatic compounds. 692

Table 58. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the non-aromatic compounds. 723

Table 59. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the cyclic nitramines. 728

Table 60. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the acyclic nitramines. 729

Table 61. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the molecules containing nitro groups. 737

Table 62. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the molecules not containing nitro groups. 764

Table 63. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the diazoles. 772

Table 64. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the triazoles. 782

Table 65. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the tetrazoles. 792

Table 66. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the oxazoles. 802

Table 67. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the ethers and esters. 810

Table 68. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the peroxides. 812

Table 69. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the nitroxides. 813

Table 70. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the molecules with -$C(NO_2)_3$ groups. 817

Table 71. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the azides. 819

Table 72. Table summarizing the structural formulae, empirical formulae and the detonation pressures of the nitrate ester. 822

Table 73. Table summarizing the Mean absoulute percent deviation (MAPE); R^2, and Pearson value of all in RoseBoom Implemented values to predict the detonation pressure. 824

Table 74. Table summarizing the structural formulae, empirical formulae and the densities of all compounds. 825

Table 75. Table summarizing the structural formulae, empirical formulae and the densities of the neutral compounds. 859

Table 76. Table summarizing the structural formulae, empirical formulae and the densities of the ionic compounds. 884

Table 77. Table summarizing the structural formulae, empirical formulae and the densities of the zwitterionic compounds. 891

Table 78. Table summarizing the structural formulae, empirical formulae and the densities of the aromatic compounds. 891

Table 79. Table summarizing the structural formulae, empirical formulae and the densities of the non-aromatic compounds. 922

Table 80. Table summarizing the structural formulae, empirical formulae and the densities of the cyclic nitramines. 927

Table 81. Table summarizing the structural formulae, empirical formulae and the densities of the acyclic nitramines. 928

Table 82. Table summarizing the structural formulae, empirical formulae and the densities of the molecules containing nitro groups. 936

Table 83. Table summarizing the structural formulae, empirical formulae and the densities of the molecules not containing nitro groups. 962

Table 84. Table summarizing the structural formulae, empirical formulae and the densities of the diazoles. 971

Table 85. Table summarizing the structural formulae, empirical formulae and the densities of the triazoles. 980

Table 86. Table summarizing the structural formulae, empirical formulae and the densities of the tetrazoles. 990

Table 87. Table summarizing the structural formulae, empirical formulae and the densities of the oxazoles. 1000

Table 88. Table summarizing the structural formulae, empirical formulae and the densities of the ethers and esters. 1007

Table 89. Table summarizing the structural formulae, empirical formulae and the densities of the peroxides 1010

Table 90. Table summarizing the structural formulae, empirical formulae and the densities of the nitroxides. 1011

Table 91. Table summarizing the structural formulae, empirical formulae and the densities of the molecules with -$C(NO_2)_3$ groups present. 1014

Table 92. Table summarizing the structural formulae, empirical formulae and the densities of the azides. 1016

Table 93. Table summarizing the structural formulae, empirical formulae and the densities of the nitrate esters. 1019

Table 94. Table summarizing the Mean absoulute percent deviation (MAPE); R^2, and Pearson value of all in RoseBoom Implemented values to predict the density. 1022

Table 95. Table summarizing the structural formulae, empirical formulae and the heat of formation of the neutral compounds. 1023

Table 96. Table summarizing the structural formulae, empirical formulae and the heat of formation of the aromatic compounds. 1047

Table 97. Table summarizing the structural formulae, empirical formulae and the heat of formation of the non-aromatic compounds. 1068

Table 98. Table summarizing the structural formulae, empirical formulae and the heat of formation of the cyclic nitramines. 1072

Table 99. Table summarizing the structural formulae, empirical formulae and the heat of formation of the acyclic nitramines. 1074

Table 100. Table summarizing the structural formulae, empirical formulae and the heat of formation of the molecules containing nitro groups. 1078

Table 101. Table summarizing the structural formulae, empirical formulae and the heat of formation of the molecules not containing nitro groups..... 1098

Table 102. Table summarizing the structural formulae, empirical formulae and the heat of formation of the diazoles. 1102

Table 103. Table summarizing the structural formulae, empirical formulae and the heat of formation of the triazoles. 1110

Table 104. Table summarizing the structural formulae, empirical formulae and the heat of formation of the tetrazoles. 1115

Table 105. Table summarizing the structural formulae, empirical formulae and the heat of formation of the oxazoles. 1122

Table 106. Table summarizing the structural formulae, empirical formulae and the heat of formation of the ethers and esters. 1125

Table 107. Table summarizing the structural formulae, empirical formulae and the heat of formation of the peroxides. 1127

Table 108. Table summarizing the structural formulae, empirical formulae and the heat of formation of the molecules with -$C(NO_2)_3$ groups present. 1128

Table 109. Table summarizing the structural formulae, empirical formulae and the heat of formation of the azides. 1130

Table 110. Table summarizing the structural formulae, empirical formulae and the heat of formation of the nitrate esters. 1132

Table 111. Table summarizing the Mean absoulute percent deviation (MAPE); R^2, and Pearson value of all in RoseBoom Implemented values to predict the heat of formation. 1134

Table 112. The calculation of the RoseIncrement for Nitrogen-Atoms with three neighbours in a ring. 1135

Table 113. The calculation of the RoseIncrement for azide groups. 1137

Table 114. The calculation of the RoseIncrement for the Cuban correction. 1138