

Supporting Information for:

**Insights into the solvent-assisted degradation of organophosphorus
compounds by a Zr-based metal-organic framework**

Jacob A. Harvey,^a Charles J. Pearce,^b Morgan G. Hall,^c Eric J. Bruni,^c Jared B. DeCoste,^c
Dorina F. Sava Gallis^{b*}

- a. Geochemistry Department, Sandia National Laboratories, Albuquerque, NM 87185, USA.
- b. Nanoscale Sciences Department, Sandia National Laboratories, Albuquerque, NM 87185, USA.
- c. Combat Capabilities Development Command Chemical Biological Center, U.S. Army Research, Development and Engineering Command, 8198 Blackhawk Road, Aberdeen Proving Ground, MD 21010 USA.

*E-mail: dfsava@sandia.gov

Table of Contents

Section S1. Materials and Methods	S3
Section S2. ZrTCPB Synthesis	S3
Section S3. Gas Sorption Measurements	S4
Section S4. Powder X-ray Diffraction Studies	S5
Section S5. ^{31}P Nuclear Magnetic Resonance (NMR) Experiments	S6
Section S6. Computational Details	S7
Section S7. Additional Tables and Figures	S8
Section S8. References	S20
Section S9. Input Files for Calculations	S21

Section S1: Materials and methods

All materials were purchased from commercially available sources and used without further purification.

Section S2: ZrTCPB Synthesis

Zr TCPB Synthesis:

The reaction mixture containing $\text{Cl}_2\text{OZr} \cdot 8 \text{ H}_2\text{O}$ (0.0217 g, 0.067 mmol), 1,2,4,5-Tetrakis(4-carboxyphenyl)benzene (TCPB, 0.0067 g, 0.012 mmol), Benzoic acid (BA, 0.604 g, 4.95 mmol), N,N'-dimethylformamide (DMF, 2.15 mL), was placed in a 20 mL scintillation vial and was heated to 115 °C for 72 hrs, at a rate of 1.5 °C/minute and cooled to room temperature at a cooling rate of 1 °C/minute. Solid was then washed in 50 mL of DMF 3 times and then 3 times in 50 mL of MeOH.

Zr TCPB HCl Washing Method:

50 mg of the white solid precipitate was re-suspended in 20 mL of DMF with 1.5 mL of 8M HCl and was put in the oven for 12 hours at 115 °C. Then the solution was exchanged with 50 mL of acetone. This acetone was replenished several times over the course of 72 hours before sample was re-activated.

Section S3: Gas Sorption Measurements

Prior to measuring the gas adsorption isotherms, the sample was immersed in 15 mL of methanol for 3 days, with the solvent replenished every 24 hrs. Following this treatment, the sample was activated under vacuum on a Micromeritics ASAP 2020 surface area and porosity analyzer, at 30 °C for 6 hrs and then heated to 150 °C at 1 °C/min for 12 hrs. Nitrogen gas adsorption isotherms were measured at 77 K using nitrogen of ultra-high purity (99.999%, obtained from Matheson Tri-Gas).

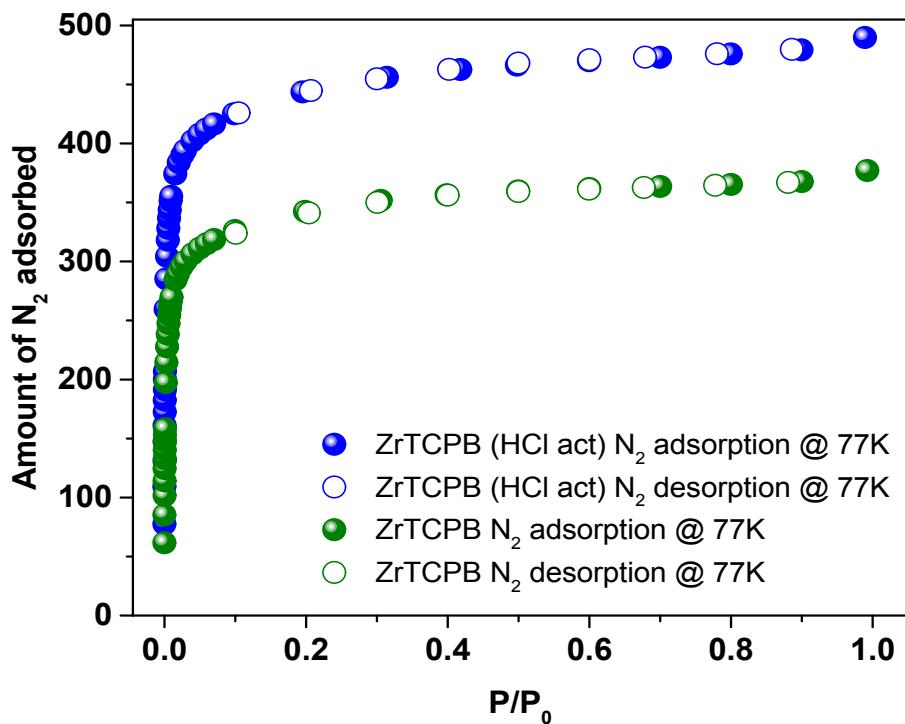


Figure S1. Nitrogen sorption isotherm measured at 77K on pristine (green) and HCl washed (blue) ZrTCPB sample.

Section S4: Powder X-ray Diffraction Studies

Measurements were performed on a Siemens Kristalloflex D500 diffractometer, CuK α radiation ($\lambda = 1.54178 \text{ \AA}$).

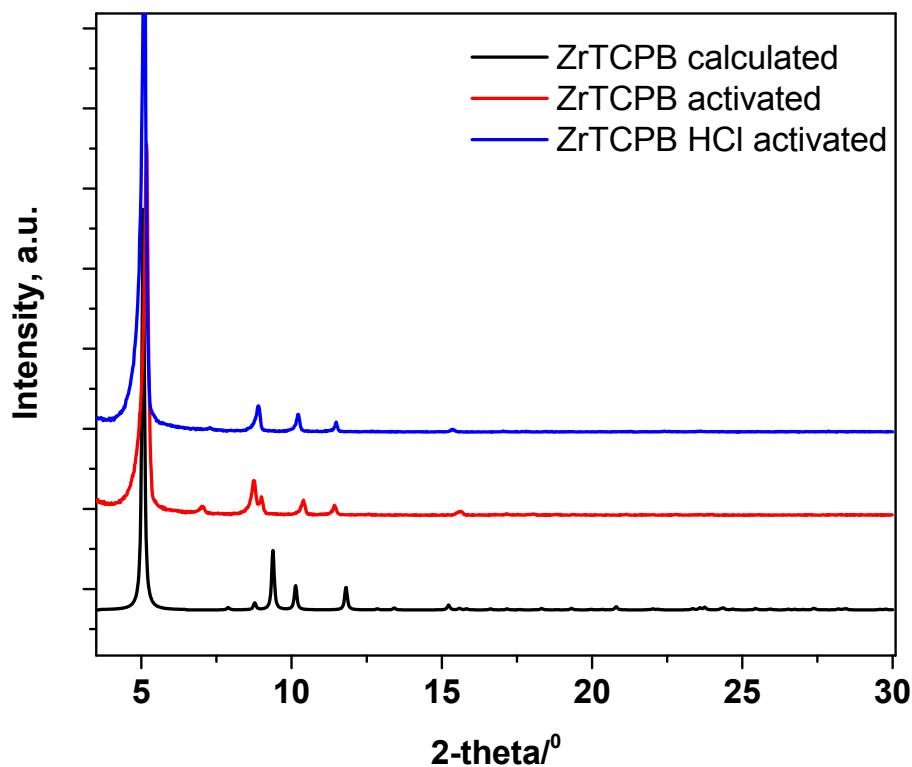


Figure S2. X-ray powder diffraction of pristine (red trace) and HCl washed (blue trace) ZrTCPB sample.

Unit cell	a (\AA)	b (\AA)	c (\AA)	Volume (\AA^3)
ZrTCPB (this work)	20.04(3)	34.80(3)	11.86(2)	8271.9
cif file*	20.14	34.89	11.19	7866.8

* M. Lammert, H. Reinsch, C. A. Murray, M. T. Wharmby, H. Terraschke and N. Stock,
Dalton Trans., 2016, **45**, 18822-18826.

Section S5: ^{31}P Nuclear Magnetic Resonance (NMR) Experiments

DMNP simulant

Dimethyl 4-nitrophenyl phosphate (DMNP) was used as received from Sigma-Aldrich with no further purification steps performed.

In a representative in situ NMR experiment, the ZrTCPB sample was added to 1 mL of solvent in an NMR tube. To improve the MOF dispersion into the solvent, the sample was vortexed for 30 s, followed by sonication for 1 min, and then vortexed again for 30 s. 4 μL of simulant was added to the mixture, the tube was capped and shaken vigorously twice and then was immediately placed in the instrument, tuned, and the run started.

^{31}P NMR experiments were performed on a Bruker Avance III 500 instrument using a 5 mm broadband probe, with a ^{31}P observed frequency of 202.47 MHz. Experiments were performed in an unlock mode on all reaction mixtures at a stabilized temperature of 50 °C. The ^{31}P NMR experiments were obtained with standard single pulse Bloch decay with inverse gated ^1H decoupling pulse sequence (Bruker program zgig) using a spectral width of 100 ppm, recycle delay of 30s, and 16 scan averages. Integration was performed in the Bruker Biospin TOPSPIN software suite and used a normalized total ^{31}P signal for analysis. The ^{31}P NMR chemical shifts were referenced to the external 85% H_3PO_4 standard $\delta = 0.0$ ppm.

Sarin (GB) and GD. *Caution should be taken on any tests involving GB. The experiments should be run by trained personnel using appropriate safety procedures.*

The GB and GD ^{31}P NMR experiments were performed on a Varian 400 instrument using a 5 mm broadband probe, with a ^{31}P observed frequency of 161.85 MHz. Experiments were performed in a lock mode on all reaction mixtures at a stabilized temperature of 50°C. The ^{31}P NMR experiments were obtained with standard single pulse decay with ^1H decoupling pulse sequence using a spectral width of 100 ppm, recycle delay of 3.75s, and 128 scan averages. The ZrTCPB sample (9.6 mg) was dispersed into a 5 mm NMR tube containing MeOH (1 mL), followed by the addition of GB and GD, respectively (4.5 μL). The NMR tube was capped and shaken vigorously before being placed into the NMR magnet for monitoring by ^{31}P NMR spectroscopy on a Varian INOVA 400 MHz NMR spectrometer. The temperature was maintained by a temperature controlled probe, and the ^{31}P NMR chemical shifts were referenced to the external standard phosphoric acid $\delta = 0.0$ ppm. Integration was performed utilizing Varian vnmrj 2.3C software. The ^{31}P NMR chemical shifts were referenced to the external 85% H₃PO₄ standard $\delta = 0.0$ ppm.

Section S6: Computational Details

The previously published crystal structure of ZrTCPB was used for DFT calculations.¹ An initial optimization of the crystal structure was performed in a three step process. First, the ion positions were optimized with fixed cell dimensions, followed by an optimization of ions and cell parameters, and then ended with an additional ion-only optimization. Initial positions for GB and GD were created by manually placing, with Materials Studio,² the molecules near the active site. A single solvent molecule was incorporated, which is initially placed between the OH chelated to a Zr and the μ_3 -OH. All calculations were performed using the projector augmented wave approach³ as implemented in the Vienna Ab Initio Simulation Package.⁴ The Perdew-Burker-Ernzerhof revised for solids (PBEsol) exchange correlation functional⁵ was used on a single Γ point in the Brillouin-zone. Van der Waals corrections were applied using the DFT-D3 method with Becke-Jonson damping.⁶ A 400 eV plane wave cutoff energy was used. Optimizations were continued until the force on all atoms was smaller than $0.03 \text{ eV} \cdot \text{\AA}^{-1}$. Vibrational calculations were performed on all optimized intermediates and transitions to confirm the existence of 0 (intermediates) or 1 (transition state) imaginary frequency. Transition states were located using the climbing image nudge elastic band method⁷. Initial structures were located along the relevant path via a linear interpolation between initial and final states.

Section S7: Additional Tables and Figures

ZrTCPB Ratio Study			
Ratio of MOF to DMNP	MOF (mg)	DMNP (mg)	MeOH (mg)
6.89%	2.9	5.6	779.2
7.79%	3.1	5.3	777.3
14.79%	5	4.5	781
16.82%	7.2	5.7	777.1
28.40%	9.6	4.5	773.1

Table S1. ZrTCPB to DMNP variable mol ratio study.

Solvent	pH	
	Initial	Final
H ₂ O	7.0	5.0
MeOH	6.5	6.0
IPA	6.5	6.5
HFE	6.5	6.5

Table S2. Initial and final pH of the solutions before and after MOF-based degradation of DMNP.

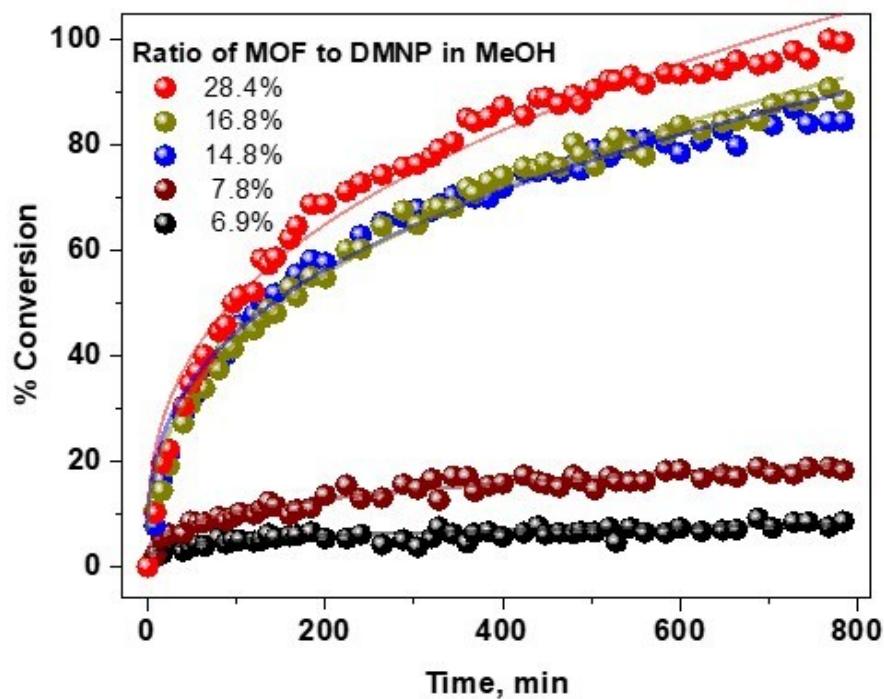


Figure S3. ZrTCPB-based degradation of DMNP in methanol as function of variable MOF:DMNP ratios.

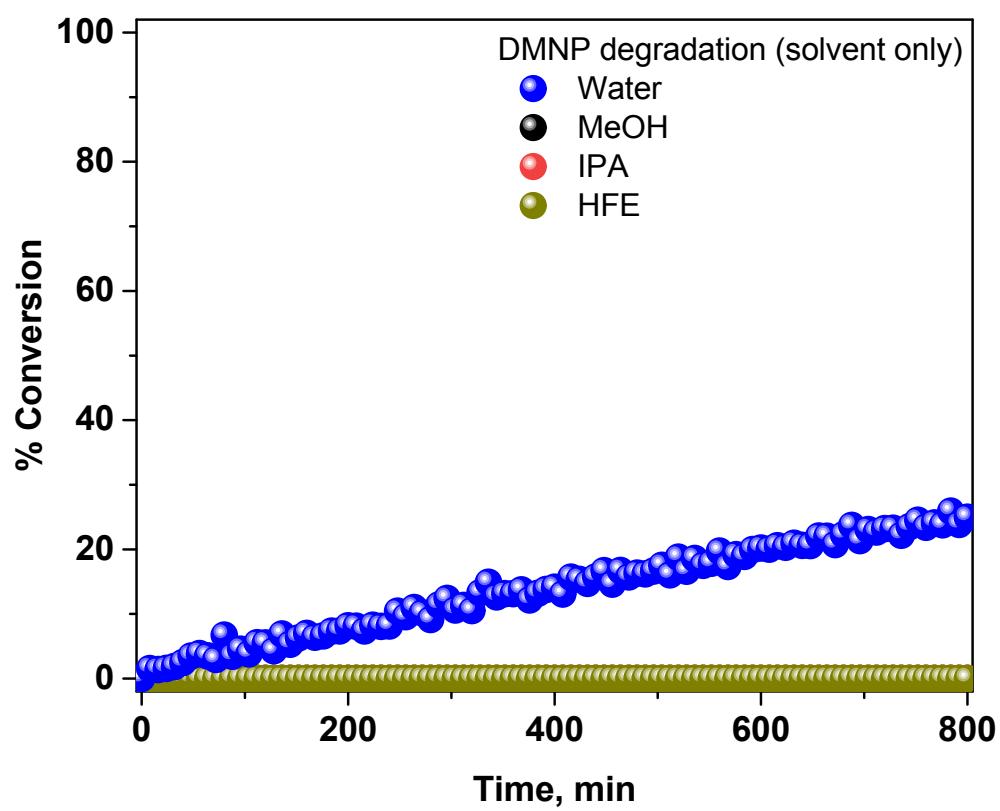


Figure S4. DMNP degradation in water, methanol, isopropyl alcohol and HFE.

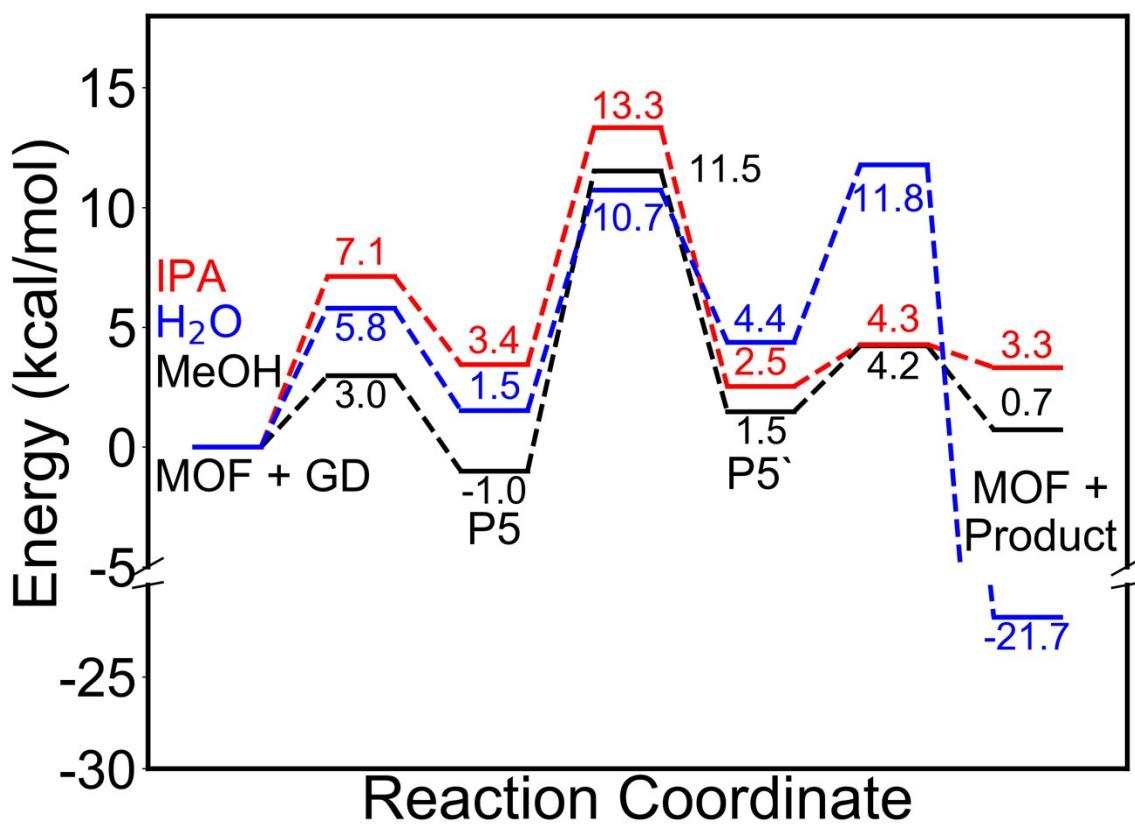


Figure S5. Reaction pathway energies for the degradation of GD on ZrTCPB in H₂O (blue), MeOH (black), and IPA (red). The energies shown for each transition state and intermediate are in kcal·mol⁻¹ units.

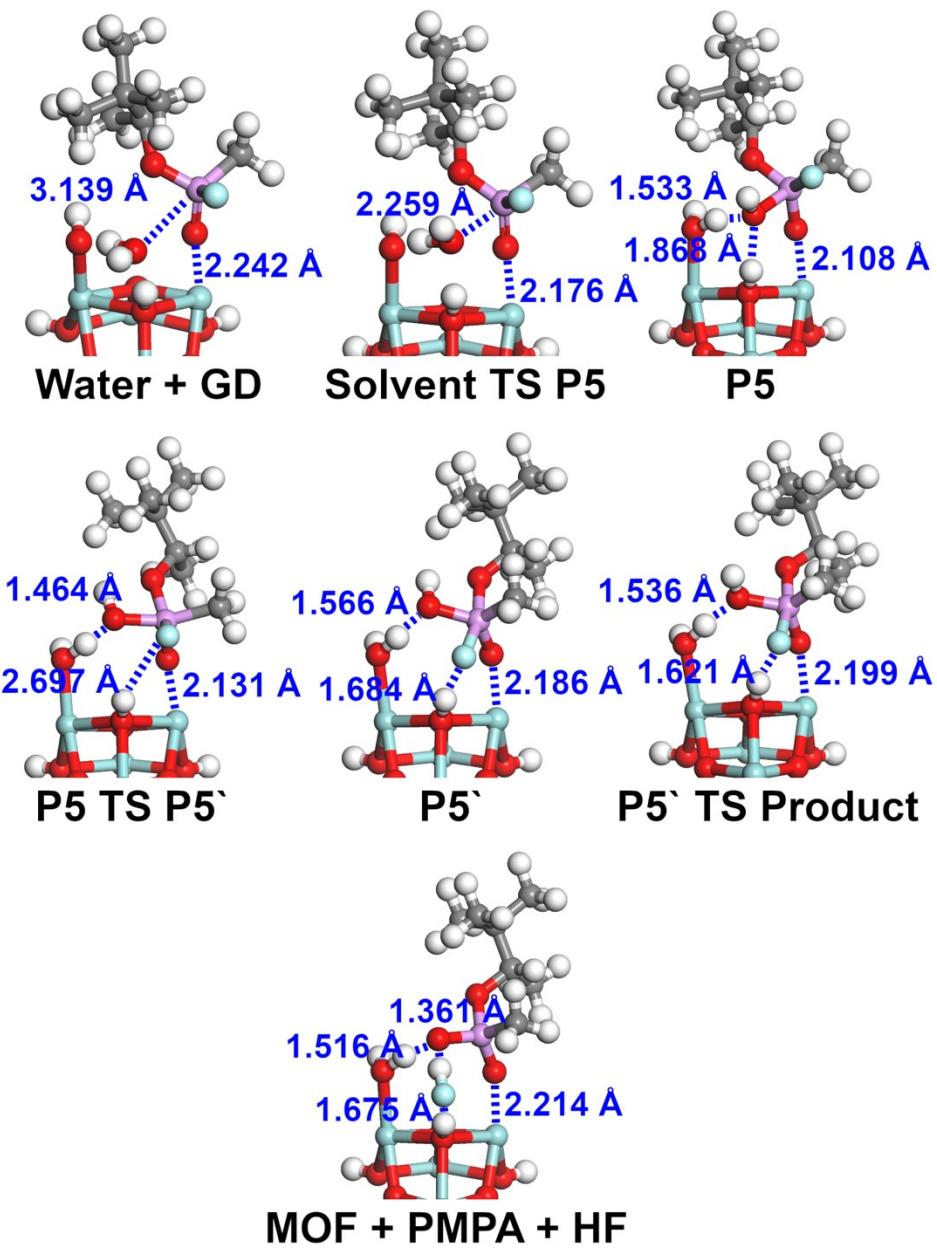


Figure S6. Structures of intermediates and transition states in the degradation pathway of GD with H_2O on ZrTCPB (H = white, O = red, Zr = teal, F = light blue, C = gray). Only the active site is depicted for visual clarity. Relevant distances are shown.

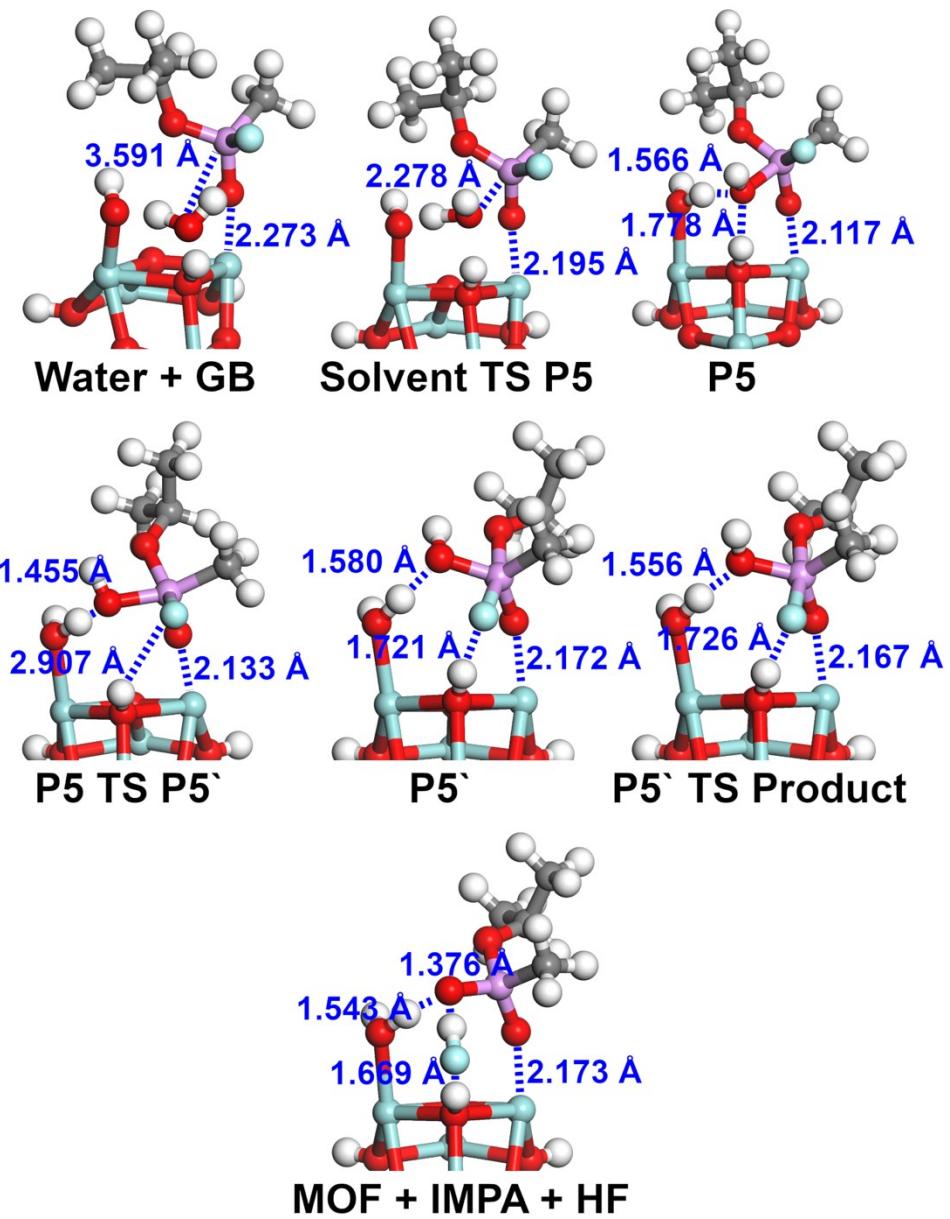


Figure S7. Structures of intermediates and transition states in the degradation pathway of GB with H_2O on ZrTCPB (H = white, O = red, Zr = teal, F = light blue, C = gray). Only the active site is depicted for visual clarity. Relevant distances are shown.

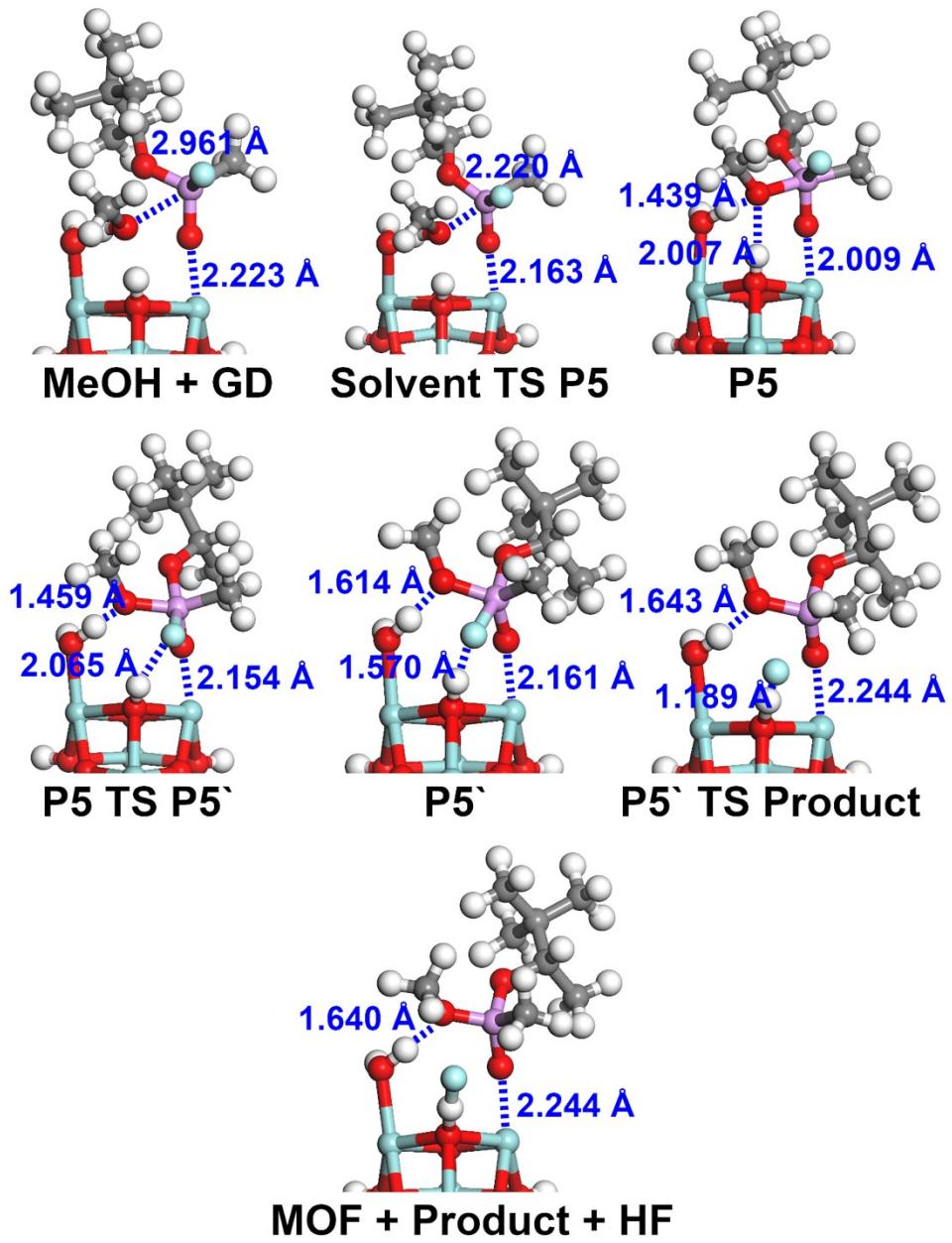


Figure S8. Structures of intermediates and transition states in the degradation pathway of GD with MeOH on ZrTCPB (H = white, O = red, Zr = teal, F = light blue, C = gray). Only the active site is depicted for visual clarity. Relevant distances are shown.

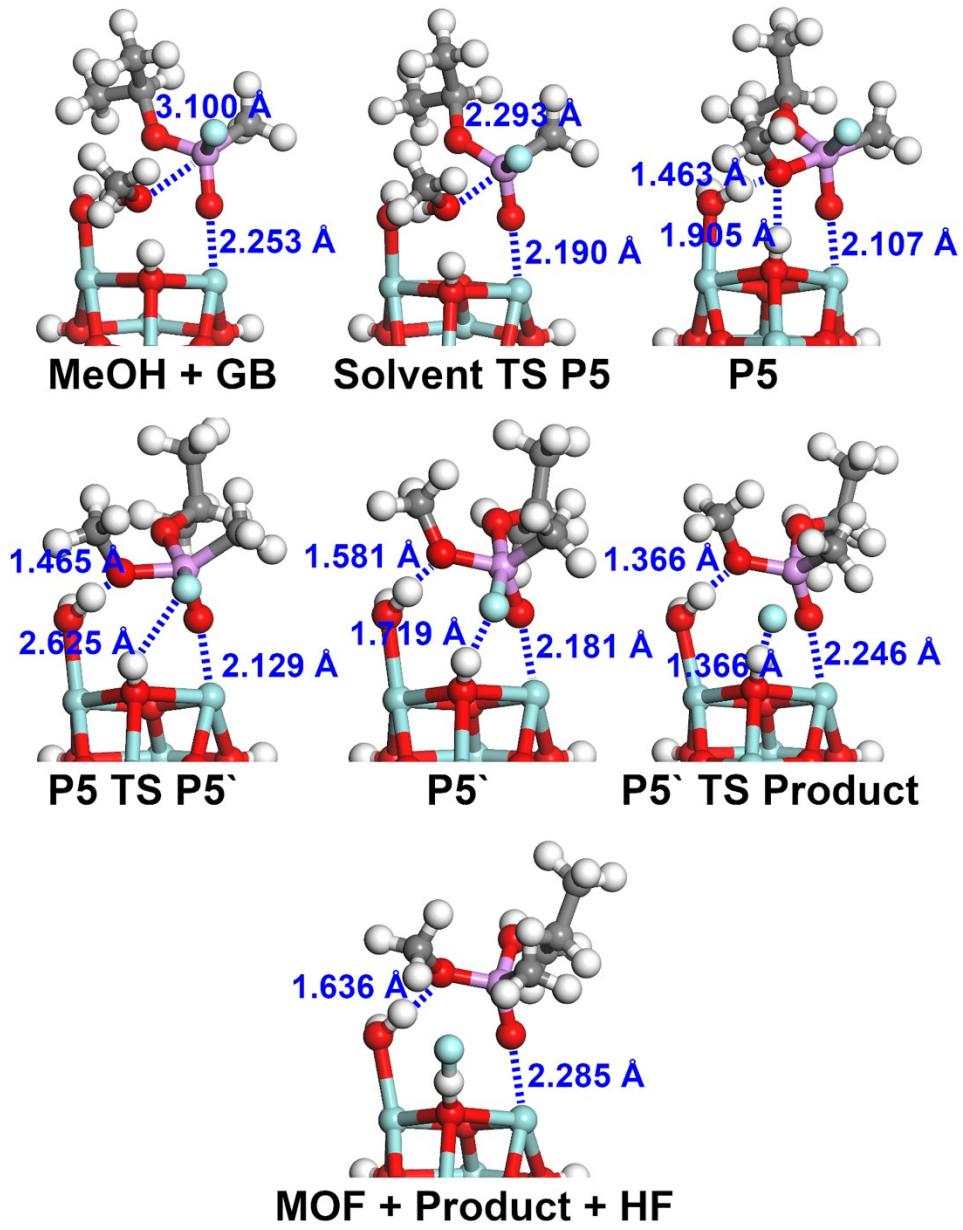


Figure S9. Structures of intermediates and transition states in the degradation pathway of GB with MeOH on ZrTCPB (H = white, O = red, Zr = teal, F = light blue, C = gray). Only the active site is depicted for visual clarity. Relevant distances are shown.

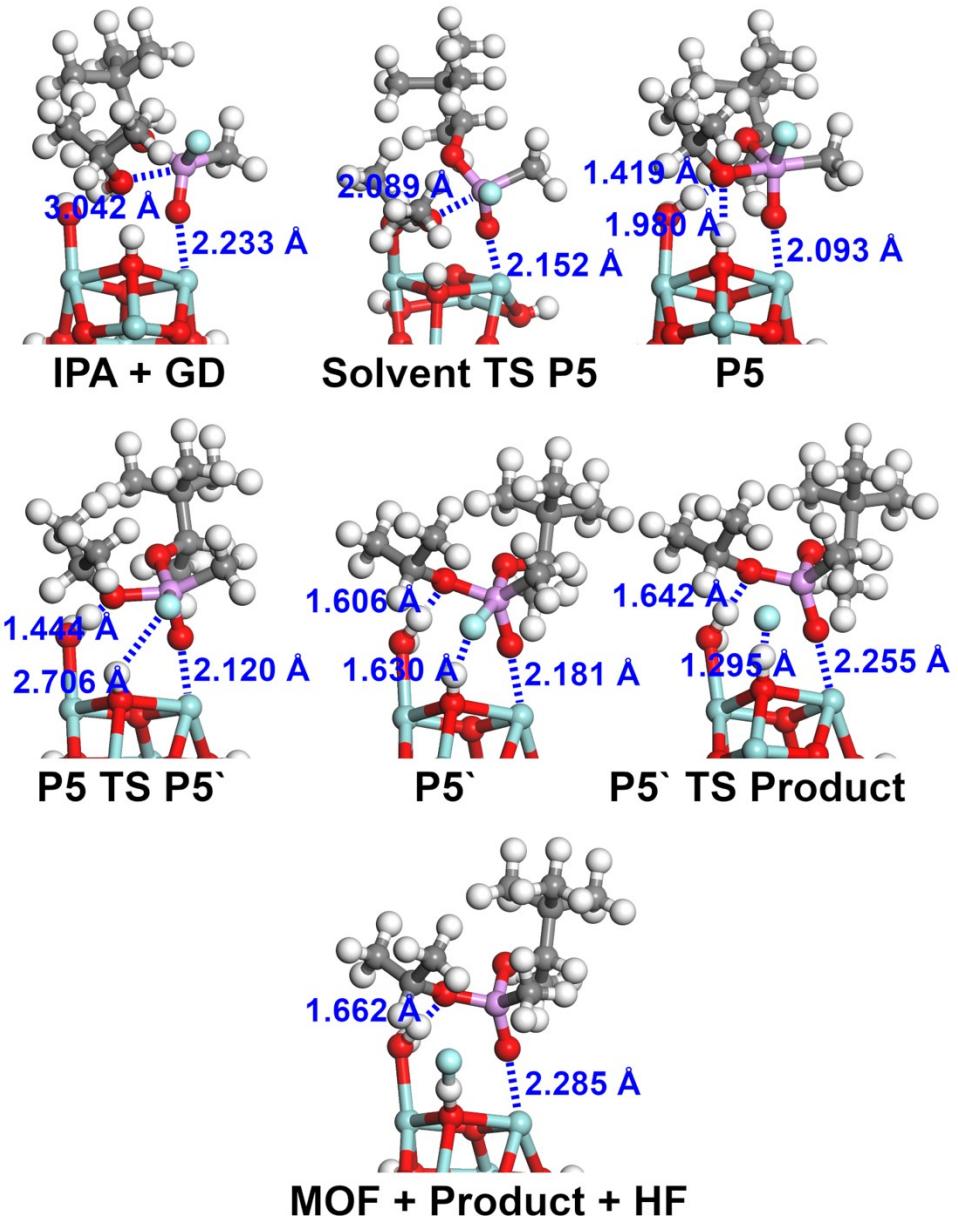


Figure S10. Structures of intermediates and transition states in the degradation pathway of GD with IPA on ZrTCPB (H = white, O = red, Zr = teal, F = light blue, C = gray). Only the active site is depicted for visual clarity. Relevant distances are shown.

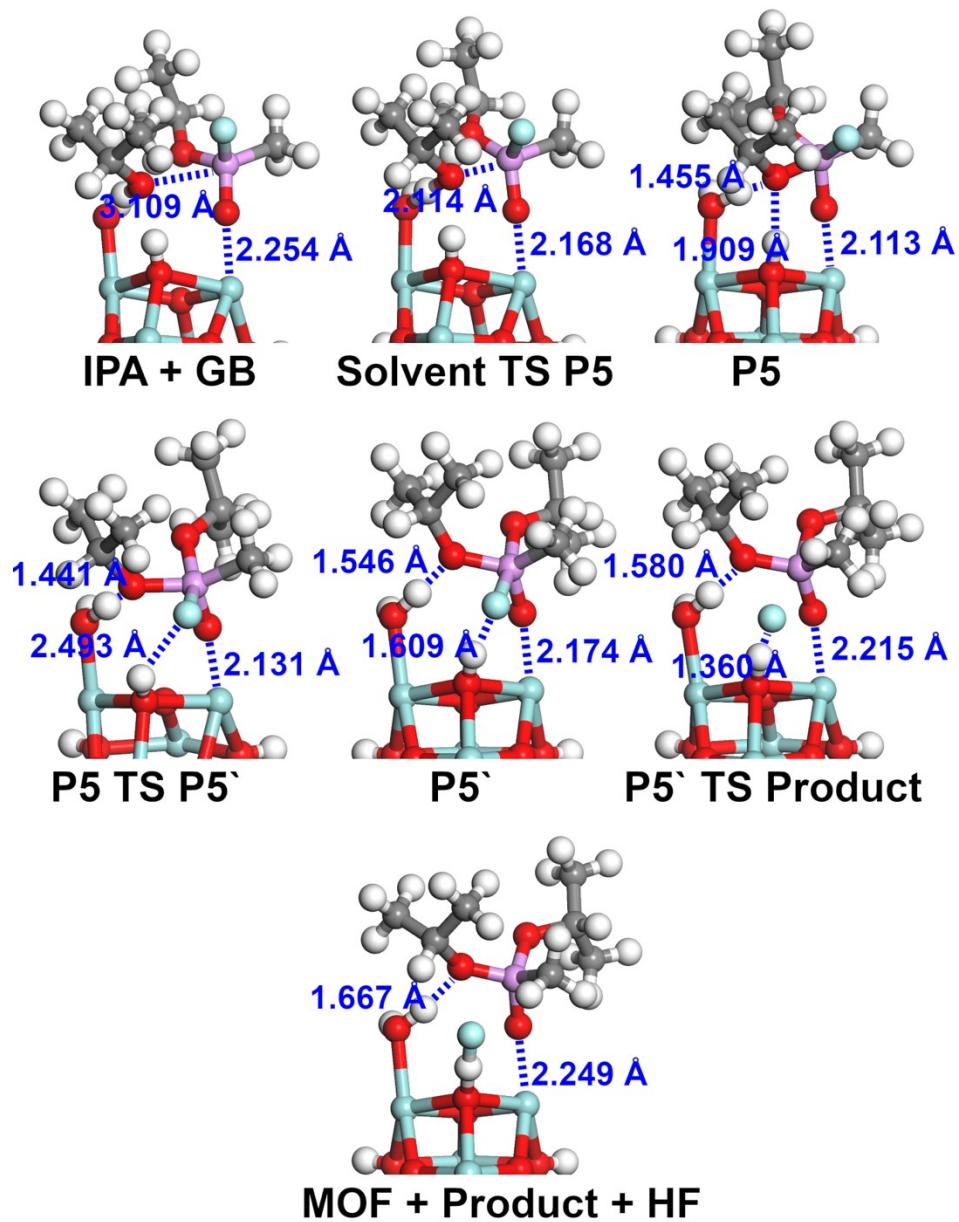


Figure S11. Structures of intermediates and transition states in the degradation pathway of GB with IPA on ZrTCPB (H = white, O = red, Zr = teal, F = light blue, C = gray). Only the active site is depicted for visual clarity. Relevant distances are shown.

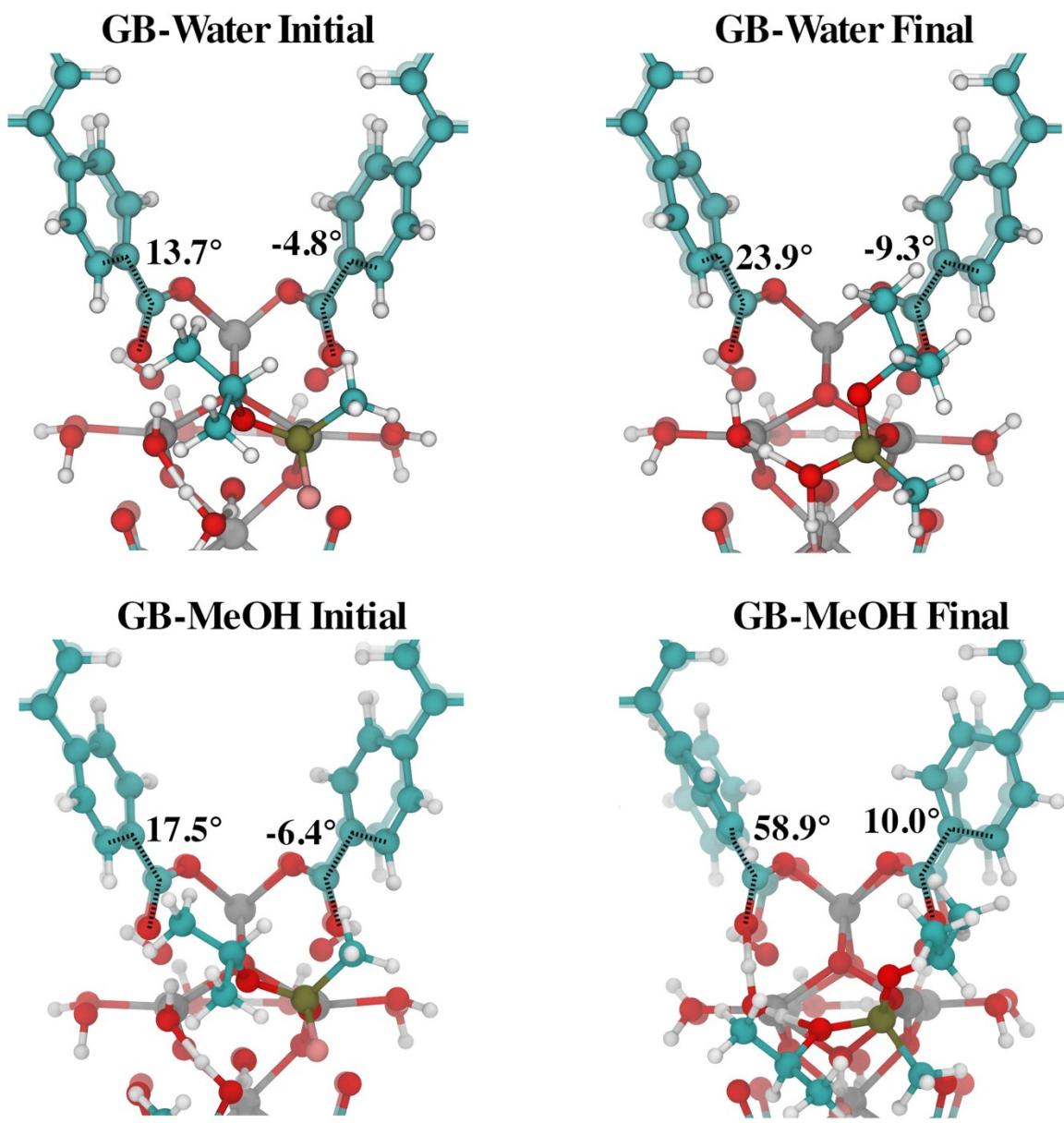


Figure S12. Structures of the initial (left) and final (right) states of GB degradation in H_2O (top) and MeOH (bottom). The dihedral angle of two relevant linkers near the active site is indicated. The angle changes more drastically from initial to final for the larger MeOH solvent.

Solvent	GB	GD
H ₂ O	10	14
MeOH	24	25
IPA	33	20

Table S3. Change in the dihedral angle (°) of the linker depicted in Fig. S12 from initial to final state for GB and GD in H₂O, MeOH, and IPA.

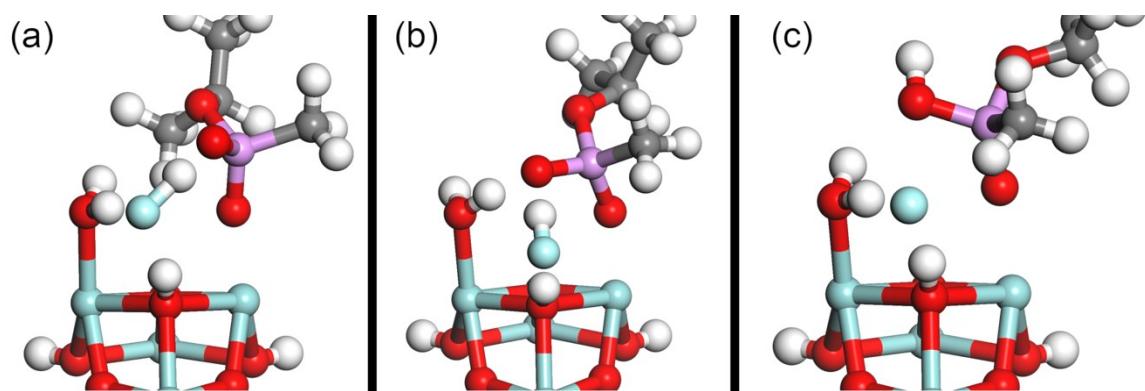


Figure S13. Stable structures of GB degraded on ZrTCPB by H₂O. The relative energies of each are (a) 0.0, (b) 4.9, and (c) 28.4 kcal · mol⁻¹. Only the degraded structure depicted in (c) remains protonated.

Section S8: References

1. M. Lammert, H. Reinsch, C. A. Murray, M. T. Wharmby, H. Terraschke and N. Stock, *Dalton Trans.*, 2016, **45**, 18822-18826.
2. Dassault Systèmes BIOVIA, Materials Studio, 2017 R2 (17.2.0.1626), San Diego: Dassault Systèmes, 2017
3. (a) P. E. Blöchl, *Phys. Rev. B*, 1994, **50**, 17953-17979; (b) G. Kresse and D. Joubert, *Phys. Rev. B*, 1999, **59**, 1758-1775.
4. (a) G. Kresse and J. Furthmüller, *Comp. Mater. Sci.*, 1996, **6**, 15-50; (b) G. Kresse and J. Furthmüller, *Phys. Rev. B*, 1996, **54**, 11169-11186; (c) G. Kresse and J. Hafner, *Phys. Rev. B*, 1994, **49**, 14251-14269; (d) G. Kresse and J. Hafner, *Phys. Rev. B*, 1993, **47**, 558-561.
5. J. P. Perdew, A. Ruzsinszky, G. I. Csonka, O. A. Vydrov, G. E. Scuseria, L. A. Constantin, X. Zhou and K. Burke, *Phys. Rev. Lett.*, 2008, **100**, 136406.
6. (a) S. Grimme, S. Ehrlich and L. Goerigk, *J. Comput. Chem.*, 2011, **32**, 1456-1465; (b) S. Grimme, J. Antony, S. Ehrlich and H. Krieg, *J. Chem. Phys.*, 2010, **132**, 154104.
7. (a) G. Henkelman and H. Jónsson, *J. Chem. Phys.*, 2000, **113**, 9978-9985; (b) G. Henkelman, B. P. Uberuaga and H. Jónsson, *J. Chem. Phys.*, 2000, **113**, 9901-9904.

Section S9: Input Files for Calculations

Representative INCAR files

Optimization of reactants, products, and intermediates

```
SYSTEM = gb_solvent_zrtcpb
ISTART = 0 ! 0 = new; 1 = restart
ICHARG = 0 ! 0 = charge density from wave functions; 1 = read from CHGCAR file
ISIF = 2 ! 2 = relax ions; 3 = relax ions and cell boundaries; set ENCUT = 1.3*ENMAX for ISIF=3
ISYM = 0
ENCUT = 400 ! must set ENCUT = 1.3*ENMAX for ISIF = 2
IVDW = 12 ! DFT-D3 method with BJ damping
GGA=PS ! Perdew-Burke-Ernzerhof revised for solids
ISMEAR = 1 ! confirm 'entropy T*S' in OUTCAR is less than 1 meV/atom; if not, adjust SIGMA or ISMEAR
SIGMA = 0.2 ! change sigma if 'entropy T*S' in OUTCAR is less than 1 meV/atom
MAXMIX = 40 ! should be approx 3*(number of electronic steps in first iteration)
EDIFFG = -0.03 ! remove if change in total energy between two ionic steps is greater than 0.001
LREAL = AUTO ! use LREAL=FALSE for final accurate energies
ISPIN = 1 ! 1 for non-spin-polarized; 2 for spin-polarized
NELM = 80 ! number of electronic self-consistent loops in each step
NSW = 1000 ! number of steps; default is 0
IBRION = 2 ! 2 good for systems that are hard to converge
POTIM = 0.2 ! optimal POTIM = original POTIM * trialstep number from OUTCAR
NCORE = 16 ! recommended for linux clusters
LPLANE = .TRUE. ! recommended for linux clusters
LSCALU = .FALSE. ! recommended for linux clusters
NSIM = 4 ! recommended for linux clusters
```

Optimization of transition states (CI-NEB)

```
SYSTEM = gb_solvent_ts_p5_zrtcpb
ISTART = 0 ! 0 = new; 1 = restart
ICHARG = 0 ! 0 = charge density from wave functions; 1 = read from CHGCAR file
IMAGES = 8 ! number of NEB images
SPRING = -5.0 ! spring < 0 for NEB, -5 = recommended
ICHAIN = 0
LCLIMB = .TRUE.

ISYM = 0
ISIF = 2 ! 2 = relax ions; 3 = relax ions and cell boundaries; set ENCUT = 1.3*ENMAX for ISIF=3
ENCUT = 400 ! must set ENCUT = 1.3*ENMAX for ISIF = 2
IVDW = 12 ! DFT-D3 method with BJ damping
GGA=PS ! Perdew-Burke-Ernzerhof revised for solids
ISMEAR = 1 ! confirm 'entropy T*S' in OUTCAR is less than 1 meV/atom; if not, adjust SIGMA or ISMEAR
SIGMA = 0.2 ! change sigma if 'entropy T*S' in OUTCAR is less than 1 meV/atom
MAXMIX = 40 ! should be approx 3*(number of electronic steps in first iteration)
EDIFFG = -0.03 ! remove if change in total energy between two ionic steps is greater than 0.001
LREAL = AUTO ! use LREAL=FALSE for final accurate energies
ISPIN = 1 ! 1 for non-spin-polarized; 2 for spin-polarized
NELM = 80 ! number of electronic self-consistent loops in each step
NSW = 1000 ! number of steps; default is 0
IBRION = 1 ! 1 recommended for NEB
POTIM = 0.1 ! optimal POTIM = original POTIM * trialstep number from OUTCAR
NCORE = 16 ! recommended for linux clusters
LPLANE = .TRUE. ! recommended for linux clusters
LSCALU = .FALSE. ! recommended for linux clusters
```

NSIM = 4 ! recommended for linux clusters

POSCAR files for h₂O solvent

POSCAR file for gb_solvent

POSCAR file from zrtcpb-gb-h2o-c.res: C: 140 F: 1 H: 114 O: 66 P: 1 ZR: 12
34.8920000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053
140 1 114 66 1 12
Direct
0.79023 0.88207 0.30393
0.23310 0.21668 0.56282
0.73274 0.71652 0.43658
0.70744 0.68401 0.36688
0.64843 0.68909 0.30333
0.61972 0.65899 0.24289
0.85218 0.81132 0.30654
0.73821 0.64833 0.36384
0.61426 0.59095 0.18651
0.64889 0.62299 0.24586
0.70878 0.61791 0.30542
0.88141 0.84152 0.24703
0.20723 0.18404 0.63189
0.23333 0.78352 0.56310
0.20768 0.81611 0.63258
0.14734 0.81133 0.69266
0.11810 0.84151 0.75223
0.23920 0.85152 0.63824
0.11299 0.90939 0.80970
0.14801 0.87731 0.75118
0.20926 0.88210 0.69541
0.76032 0.85148 0.36115
0.73406 0.28376 0.56356
0.14644 0.18870 0.69039
0.70706 0.31636 0.63162
0.64542 0.31144 0.68693
0.61409 0.34168 0.74261
0.88657 0.90941 0.18987
0.73765 0.35199 0.63765
0.60723 0.40976 0.79857
0.64306 0.37773 0.74138
0.70544 0.38269 0.69015
0.85151 0.87731 0.24822
0.77032 0.21742 0.56295
0.11678 0.15842 0.74883
0.79758 0.18507 0.63030
0.85805 0.19018 0.68918
0.88899 0.15982 0.74442
0.76743 0.14920 0.63316
0.89552 0.09146 0.79720
0.86040 0.12367 0.74037
0.79895 0.11854 0.68626
0.23871 0.14865 0.63728
0.11203 0.09045 0.80654
0.14659 0.12261 0.74747
0.20811 0.11795 0.69265
0.73325 0.71640 0.56275
0.70803 0.68386 0.63287
0.26725 0.71658 0.56322
0.64846 0.68875 0.69534
0.61971 0.65861 0.75586
0.73945 0.64842 0.63740
0.61423 0.59063 0.81187
0.64936 0.62273 0.75363
0.70995 0.61791 0.69561
0.76700 0.78333 0.56257
0.79259 0.81569 0.63248
0.85114 0.81022 0.69713
0.88032 0.84017 0.75765
0.29257 0.68415 0.63323
0.76254 0.85157 0.63485
0.88700 0.90840 0.81225
0.82264 0.53180 0.69660
0.85191 0.87636 0.75388
0.89930 0.51162 1.09541
0.85735 0.54778 1.07897
0.81141 0.55166 1.18796
0.79228 0.88178 0.69372
0.26917 0.28300 0.56212
0.29653 0.31519 0.62980
0.35632 0.30969 0.69058

0.38707	0.33983	0.74723
0.26684	0.35119	0.63174
0.39366	0.40810	0.80099
0.35135	0.68938	0.69738
0.35886	0.37608	0.74273
0.26581	0.28375	0.43617
0.29811	0.38161	0.68649
0.76685	0.21667	0.43701
0.79265	0.18401	0.36792
0.85326	0.18864	0.30882
0.29271	0.31635	0.36795
0.88285	0.15838	0.25040
0.76125	0.14858	0.36304
0.88766	0.09037	0.19317
0.38010	0.65938	0.75820
0.85314	0.12254	0.25229
0.79176	0.11787	0.30764
0.35432	0.31143	0.31255
0.26672	0.71642	0.43704
0.29196	0.68387	0.36703
0.35159	0.68871	0.30472
0.38032	0.65855	0.24435
0.26045	0.64844	0.36242
0.38583	0.59059	0.18854
0.35061	0.62269	0.24657
0.26202	0.64840	0.63622
0.28994	0.61790	0.30437
0.38558	0.34167	0.25667
0.23276	0.78331	0.43693
0.20716	0.81567	0.36700
0.14856	0.81020	0.30246
0.11932	0.84014	0.24206
0.23719	0.85156	0.36465
0.26209	0.35197	0.36189
0.11275	0.90837	0.18732
0.14776	0.87634	0.24579
0.38594	0.59128	0.81437
0.20739	0.88176	0.30588
0.39244	0.40973	0.20079
0.73078	0.28298	0.43761
0.70338	0.31514	0.36988
0.64358	0.30960	0.30913
0.61282	0.33972	0.25238
0.73308	0.35114	0.36775
0.60619	0.40795	0.19841
0.64102	0.37597	0.25673
0.70180	0.38153	0.31287
0.35122	0.62330	0.75506
0.35660	0.37770	0.25792
0.29425	0.38266	0.30925
0.74703	0.24946	0.37739
0.24952	0.74978	0.37737
0.25291	0.24949	0.62240
0.75035	0.74980	0.62226
0.25060	0.75016	0.62274
0.75402	0.25097	0.62317
0.74918	0.75009	0.37689
0.24591	0.25093	0.37661
0.29148	0.61809	0.69506
0.76635	0.78350	0.43640
0.22965	0.21739	0.43689
0.20237	0.18501	0.36965
0.14198	0.19018	0.31054
0.11095	0.15984	0.25531
0.23236	0.14910	0.36700
0.10427	0.09146	0.20260
0.13940	0.12365	0.25951
0.20075	0.11846	0.31392
0.79190	0.81610	0.36682
0.83520	0.46561	0.86657
0.78723	0.35578	0.60004
0.56611	0.33818	0.78664
0.62169	0.28345	0.68325
0.73172	0.58972	0.30603
0.23290	0.91011	0.69788
0.28799	0.85505	0.59726
0.07090	0.83826	0.79914
0.12274	0.78358	0.68948
0.78596	0.64449	0.40780
0.27615	0.41006	0.68694
0.21851	0.35509	0.58995
0.43397	0.33623	0.79443
0.57338	0.66237	0.19380
0.37930	0.28147	0.68941
0.74491	0.24918	0.27971
0.62435	0.71700	0.30477
0.76994	0.91013	0.69279
0.71515	0.85574	0.58990

0.92638	0.83644	0.80733
0.87462	0.78214	0.69626
0.24942	0.74974	0.27960
0.73341	0.58986	0.69578
0.78766	0.64477	0.59442
0.57297	0.66189	0.80420
0.62397	0.71652	0.69302
0.23149	0.08987	0.69368
0.28769	0.14517	0.59696
0.06939	0.16160	0.79511
0.12196	0.21648	0.68721
0.72372	0.40999	0.31232
0.78144	0.35508	0.40945
0.56590	0.33608	0.20525
0.62065	0.28136	0.31041
0.22971	0.91012	0.30681
0.28461	0.85573	0.40952
0.07322	0.83642	0.19249
0.12509	0.78212	0.30339
0.26641	0.58986	0.30406
0.21217	0.64481	0.40519
0.42710	0.66178	0.19610
0.37612	0.71648	0.30694
0.75050	0.74979	0.72004
0.76843	0.08977	0.30699
0.71239	0.14507	0.40375
0.93009	0.16159	0.20365
0.87762	0.21650	0.31148
0.25505	0.24921	0.72007
0.22309	0.09011	0.31330
0.28119	0.14539	0.40713
0.06361	0.16331	0.20948
0.11876	0.21833	0.31199
0.71198	0.52243	0.14130
0.57695	0.50072	0.57183
0.28785	0.52246	0.85821
0.42273	0.50092	0.42801
0.49912	0.49963	0.35815
0.57988	0.47200	0.36875
0.50083	0.49998	0.64177
0.41950	0.47251	0.63077
0.36036	0.44491	0.00088
0.49917	0.55409	0.25331
0.50082	0.55432	0.74713
0.63943	0.44482	0.99861
0.30399	0.50070	0.00502
0.29152	0.52506	0.13751
0.07884	0.02413	0.38184
0.21744	0.02136	0.86541
0.19628	0.99895	0.00977
0.99307	0.00188	0.35629
0.78220	0.02124	0.13407
0.80341	0.99892	0.98954
0.92117	0.02421	0.61778
0.00677	0.00191	0.64336
0.13745	0.05516	0.00783
0.86230	0.05512	0.99173
0.99909	0.94455	0.25013
0.00059	0.94455	0.74942
0.20825	0.97508	0.14262
0.91977	0.98882	0.41612
0.79170	0.97495	0.85686
0.08011	0.98879	0.58363
0.27144	0.41090	0.30691
0.21253	0.35573	0.39962
0.43353	0.33820	0.21252
0.37811	0.28346	0.31630
0.75604	0.25124	0.72085
0.76654	0.91005	0.30136
0.71151	0.85499	0.40208
0.92857	0.83828	0.20002
0.87676	0.78355	0.30971
0.25068	0.75022	0.72051
0.26871	0.58984	0.69443
0.21445	0.64443	0.59169
0.42622	0.66292	0.80782
0.37526	0.71734	0.69611
0.74899	0.75014	0.27911
0.77648	0.09021	0.68689
0.71854	0.14558	0.59325
0.93637	0.16324	0.79019
0.88138	0.21830	0.68759
0.24395	0.25120	0.27893
0.72820	0.41094	0.69250
0.80989	0.51106	0.62194
0.79618	0.55995	0.68027
0.87835	0.53676	0.69783
0.93367	0.50793	1.01567

0.86509	0.48599	1.10254
0.92983	0.51420	1.18045
0.89093	0.57367	1.07149
0.84249	0.55318	1.27244
0.77750	0.52585	1.19244
0.78047	0.57858	1.17972
0.71508	0.46859	1.06524
0.73730	0.41773	1.01342
0.43564	0.40003	0.12380
0.93784	0.10069	0.87574
0.36825	0.55739	0.79042
0.56731	0.59990	0.88155
0.13011	0.05659	0.78233
0.06650	0.09976	0.87938
0.63163	0.55663	0.78722
0.43527	0.39882	0.88057
0.86949	0.94233	0.78778
0.93123	0.89993	0.11534
0.37785	0.44367	0.23008
0.93392	0.89910	0.88162
0.37964	0.44190	0.76927
0.43290	0.59987	0.11917
0.86956	0.05651	0.21741
0.93316	0.09968	0.12025
0.36835	0.55659	0.21301
0.87149	0.94329	0.21906
0.56448	0.39869	0.11900
0.13032	0.94229	0.21157
0.06575	0.89906	0.11808
0.62030	0.44176	0.23008
0.19179	0.99950	0.11330
0.93897	0.00229	0.34824
0.69226	0.49929	0.10882
0.44430	0.50264	0.35014
0.80604	0.99913	0.10385
0.06181	0.00026	0.34923
0.30759	0.50048	0.10872
0.56583	0.49787	0.34844
0.80792	0.99945	0.88606
0.06090	0.00236	0.65132
0.30769	0.49940	0.89092
0.55549	0.50290	0.64970
0.19370	0.99920	0.89554
0.93811	0.00033	0.65046
0.43376	0.49830	0.65162
0.99984	0.96083	0.17994
0.50002	0.47036	0.13265
0.99728	0.02918	0.13391
0.50121	0.53879	0.18095
0.99992	0.96081	0.81966
0.49981	0.47046	0.86722
0.00249	0.02921	0.86585
0.49879	0.53894	0.81931
0.07351	0.97067	0.00022
0.60001	0.46076	0.99974
0.90131	0.03893	0.99313
0.42757	0.52877	0.00149
0.92630	0.97069	0.99921
0.39980	0.46084	0.99995
0.09844	0.03895	0.00659
0.57233	0.52871	0.99872
0.56769	0.60033	0.11636
0.11877	0.05767	0.23400
0.06198	0.10069	0.12402
0.63190	0.55705	0.21050
0.56411	0.40007	0.87572
0.12810	0.94327	0.78066
0.06835	0.89988	0.88424
0.62179	0.44371	0.76923
0.43262	0.60063	0.88438
0.88098	0.05768	0.76580
0.70557	0.50321	0.84017
0.81659	0.54331	0.96699
0.70299	0.44176	1.03054
0.79540	0.51137	0.84272
0.91423	0.00011	0.83768
0.90980	0.99962	0.15469
0.08555	0.00010	0.16194
0.41135	0.49982	0.84178
0.41349	0.49959	0.15904
0.49988	0.43046	0.99978
0.99988	0.06900	0.99985
0.58852	0.49963	0.15818
0.58639	0.49964	0.84093
0.50003	0.56898	0.00024
0.08995	0.99965	0.84490
0.99989	0.93065	0.99977

POSCAR file for gb_p5

POSCAR file from zrtcpb-gb-h2o-c.res: C: 140 F: 1 H: 114 O: 66 P: 1 ZR: 12
 34.89200000000000
 0.5792995890490465 -0.0000450140396845 0.0007649282407427
 -0.0000781726227076 1.0082675674799713 0.0000166934211398
 0.0004256087542374 0.0000053656439079 0.3214078049098053

140 1 114 66 1 12

Direct

0.79165	0.88255	0.30407
0.23212	0.21731	0.56283
0.73080	0.71780	0.43684
0.70512	0.68545	0.36721
0.64765	0.69077	0.29962
0.61904	0.66061	0.23918
0.85367	0.81185	0.30989
0.73439	0.64937	0.36898
0.61330	0.59196	0.18671
0.64654	0.62424	0.24753
0.70448	0.61882	0.31243
0.88325	0.84185	0.25005
0.20575	0.18468	0.63158
0.23331	0.78368	0.56295
0.20720	0.81625	0.63206
0.14633	0.81149	0.69026
0.11676	0.84159	0.74970
0.23879	0.85160	0.63874
0.11207	0.90941	0.80856
0.14682	0.87733	0.74963
0.20840	0.88216	0.69517
0.76121	0.85207	0.36077
0.73483	0.28385	0.56253
0.14437	0.18896	0.68828
0.70823	0.31670	0.63016
0.64552	0.31257	0.68188
0.61493	0.34307	0.73755
0.88810	0.90957	0.19097
0.74039	0.35181	0.63912
0.60907	0.41077	0.79557
0.64537	0.37870	0.73899
0.70860	0.38287	0.69061
0.85322	0.87758	0.24980
0.77245	0.21784	0.56287
0.11483	0.15851	0.74614
0.79974	0.18551	0.63001
0.85974	0.19045	0.69051
0.89009	0.15989	0.74569
0.76939	0.14966	0.63114
0.89557	0.09153	0.79806
0.86125	0.12380	0.74020
0.80027	0.11883	0.68438
0.23779	0.14947	0.63783
0.11132	0.09060	0.80513
0.14537	0.12287	0.74576
0.20730	0.11858	0.69231
0.73212	0.71748	0.56290
0.70610	0.68507	0.63256
0.26859	0.71698	0.56378
0.64630	0.69003	0.69417
0.61696	0.65987	0.75381
0.73690	0.64949	0.63608
0.61167	0.59154	0.80917
0.64590	0.62385	0.75012
0.70615	0.61893	0.69140
0.76797	0.78392	0.56315
0.79385	0.81615	0.63289
0.85199	0.81073	0.69851
0.88069	0.84075	0.75918
0.29433	0.68471	0.63384
0.76378	0.85198	0.63372
0.88684	0.90893	0.81293
0.81339	0.52473	0.74639
0.85225	0.87690	0.75400
0.89030	0.50582	0.05818
0.84385	0.54004	0.04521
0.82301	0.55583	0.16464
0.79317	0.88231	0.69226
0.27101	0.28308	0.56211
0.29880	0.31518	0.62993
0.35792	0.30949	0.69258
0.38886	0.33963	0.74915
0.26973	0.35135	0.63051
0.39596	0.40813	0.80111
0.35271	0.68998	0.69903
0.36135	0.37602	0.74300
0.26788	0.28377	0.43623
0.30113	0.38172	0.68534

0.76722	0.21654	0.43730
0.79348	0.18391	0.36856
0.85487	0.18846	0.31207
0.29570	0.31606	0.36773
0.88465	0.15819	0.25381
0.76165	0.14865	0.36183
0.88874	0.09037	0.19443
0.38136	0.65997	0.76005
0.85433	0.12250	0.25377
0.79242	0.11792	0.30703
0.35752	0.31099	0.31319
0.26704	0.71648	0.43770
0.29276	0.68398	0.36789
0.35262	0.68901	0.30652
0.38173	0.65903	0.24576
0.26161	0.64847	0.36274
0.38701	0.59109	0.18797
0.35214	0.62315	0.24694
0.26402	0.64889	0.63577
0.29153	0.61810	0.30462
0.38892	0.34109	0.25659
0.23188	0.78317	0.43685
0.20629	0.81551	0.36698
0.14809	0.81025	0.30126
0.11936	0.84038	0.24104
0.23640	0.85137	0.36632
0.26503	0.35163	0.36021
0.11330	0.90871	0.18773
0.14781	0.87656	0.24656
0.38674	0.59164	0.81536
0.20701	0.88180	0.30817
0.39521	0.40918	0.19905
0.72904	0.28240	0.43700
0.70114	0.31439	0.36958
0.64240	0.30867	0.30570
0.61176	0.33892	0.24942
0.73017	0.35063	0.37031
0.60470	0.40732	0.19794
0.63917	0.37532	0.25689
0.69909	0.38108	0.31568
0.35265	0.62383	0.75579
0.35977	0.37706	0.25650
0.29731	0.38216	0.30709
0.74527	0.24877	0.37726
0.24872	0.74956	0.37759
0.25318	0.24984	0.62244
0.75062	0.75051	0.62282
0.25173	0.75060	0.62303
0.75654	0.25155	0.62264
0.74788	0.75131	0.37729
0.24645	0.25127	0.37664
0.29333	0.61857	0.69464
0.76654	0.78433	0.43722
0.22868	0.21802	0.43700
0.20096	0.18565	0.37009
0.14072	0.19060	0.31037
0.11014	0.16007	0.25528
0.23112	0.14978	0.36857
0.10447	0.09167	0.20239
0.13881	0.12395	0.26038
0.19990	0.11897	0.31578
0.79280	0.81678	0.36789
0.82519	0.47411	0.85466
0.79065	0.35495	0.60375
0.56634	0.34019	0.77983
0.62033	0.28505	0.67613
0.72480	0.59004	0.31882
0.23184	0.91020	0.69828
0.28786	0.85516	0.59896
0.06929	0.83827	0.79565
0.12178	0.78374	0.68617
0.78121	0.64537	0.41572
0.27976	0.41035	0.68476
0.22178	0.35547	0.58753
0.43530	0.33586	0.79778
0.57410	0.66433	0.18623
0.38026	0.28111	0.69298
0.74187	0.24805	0.27973
0.62469	0.71900	0.29763
0.77107	0.91072	0.69002
0.71675	0.85596	0.58755
0.92642	0.83719	0.81004
0.87538	0.78262	0.69851
0.24805	0.74929	0.27983
0.72733	0.59033	0.68820
0.78535	0.64580	0.59410
0.57026	0.66325	0.80232
0.62236	0.71797	0.69248

0.23111	0.09061	0.69373
0.28708	0.14626	0.59862
0.06708	0.16144	0.79140
0.11942	0.21658	0.68442
0.72073	0.40960	0.31602
0.77812	0.35448	0.41349
0.56575	0.33524	0.19957
0.62016	0.28028	0.30442
0.22924	0.91016	0.31058
0.28351	0.85534	0.41225
0.07359	0.83685	0.19034
0.12465	0.78216	0.30082
0.26868	0.58989	0.30416
0.21337	0.64459	0.40536
0.42867	0.66247	0.19815
0.37689	0.71685	0.30955
0.75116	0.75040	0.72061
0.76892	0.08987	0.30526
0.71234	0.14527	0.40091
0.93240	0.16127	0.20868
0.87957	0.21615	0.31628
0.25514	0.24956	0.72012
0.22229	0.09061	0.31624
0.27979	0.14623	0.40935
0.06302	0.16334	0.20847
0.11732	0.21869	0.31081
0.71389	0.51716	0.13359
0.57656	0.49919	0.57266
0.28884	0.52248	0.85813
0.41805	0.49866	0.41888
0.50825	0.49857	0.35763
0.57595	0.46985	0.36302
0.49956	0.50046	0.64251
0.42069	0.47282	0.63148
0.36314	0.44411	-0.00026
0.50013	0.55381	0.25396
0.50234	0.55414	0.74667
0.64378	0.44637	0.00134
0.30518	0.50076	0.01017
0.29631	0.52671	0.13622
0.07858	0.02484	0.38072
0.21691	0.02161	0.86377
0.19632	0.99906	0.00653
0.99424	0.00208	0.35619
0.78308	0.02160	0.13641
0.80360	0.99913	0.99374
0.92131	0.02477	0.61942
0.00560	0.00207	0.64401
0.13763	0.05539	0.00701
0.86247	0.05523	0.99310
0.00001	0.94474	0.25059
0.00023	0.94476	0.74944
0.20936	0.97539	0.14063
0.92041	0.98940	0.41691
0.79037	0.97560	0.85939
0.07944	0.98951	0.58291
0.27475	0.41046	0.30372
0.21537	0.35544	0.39734
0.43705	0.33753	0.21301
0.38132	0.28306	0.31793
0.75972	0.25219	0.72019
0.76834	0.91062	0.30058
0.71215	0.85565	0.40054
0.93071	0.83851	0.20402
0.87815	0.78410	0.31441
0.25249	0.75089	0.72078
0.27112	0.59019	0.69316
0.21682	0.64488	0.59021
0.42723	0.66359	0.81041
0.37633	0.71802	0.69843
0.74710	0.75158	0.27953
0.77781	0.09050	0.68395
0.72078	0.14619	0.58998
0.93713	0.16304	0.79271
0.88323	0.21852	0.69011
0.24455	0.25157	0.27896
0.73261	0.41077	0.69407
0.80129	0.50737	0.66766
0.79675	0.55415	0.73170
0.86714	0.52404	0.76269
0.90950	0.49628	-0.02756
0.86519	0.48329	0.10479
0.93276	0.51588	0.11261
0.86581	0.56275	-0.01042
0.86702	0.56659	0.21166
0.80024	0.53342	0.22032
0.78756	0.57932	0.15406
0.70772	0.46779	0.11662

0.77089	0.45915	0.01567
0.43898	0.39975	0.12289
0.93738	0.10074	0.87736
0.36861	0.55785	0.79123
0.56573	0.60097	0.88096
0.12984	0.05675	0.78107
0.06586	0.09978	0.87810
0.62927	0.55778	0.78392
0.43801	0.39893	0.88005
0.86923	0.94284	0.78846
0.93282	0.90002	0.11662
0.37932	0.44297	0.22797
0.93349	0.89961	0.88285
0.38103	0.44186	0.76993
0.43464	0.60040	0.11983
0.87037	0.05653	0.21859
0.93421	0.09971	0.12178
0.36863	0.55719	0.21042
0.87264	0.94345	0.21928
0.56666	0.39815	0.11283
0.13089	0.94261	0.21233
0.06672	0.89944	0.11751
0.61490	0.44086	0.23563
0.19215	0.99963	0.11125
0.93977	0.00253	0.34853
0.69299	0.49359	0.15944
0.44269	0.50293	0.34527
0.80636	0.99928	0.10631
0.06221	0.00069	0.34912
0.30845	0.50104	0.11008
0.56369	0.49674	0.35270
0.80786	0.99976	0.88890
0.06014	0.00254	0.65152
0.30842	0.44932	0.89061
0.55527	0.50380	0.64964
0.19362	0.99927	0.89373
0.93774	0.00064	0.65109
0.43439	0.49861	0.65327
0.00067	0.96101	0.18036
0.50176	0.47041	0.13245
0.99796	0.02930	0.13413
0.50298	0.53901	0.18061
0.99957	0.96100	0.81973
0.50091	0.47113	0.86496
0.00224	0.02931	0.86593
0.49922	0.53924	0.81980
0.07370	0.97089	-0.00005
0.60184	0.46228	0.99660
0.90147	0.03903	0.99438
0.42936	0.52877	0.00207
0.92658	0.97084	0.00013
0.40160	0.46082	0.99966
0.09873	0.03909	0.00570
0.57738	0.53023	0.99751
0.56759	0.60129	0.11479
0.11924	0.05787	0.23368
0.06270	0.10084	0.12289
0.63178	0.55825	0.21047
0.56573	0.40099	0.87164
0.12753	0.94330	0.78021
0.06749	0.89990	0.88326
0.62303	0.44471	0.76497
0.43315	0.60086	0.88600
0.88077	0.05776	0.76667
0.69872	0.49875	0.85028
0.78210	0.52891	0.98579
0.74322	0.47080	-0.04481
0.76958	0.50545	0.86985
0.91373	0.00017	0.83882
0.91064	0.99972	0.15584
0.08637	0.00022	0.16144
0.41131	0.50015	0.84284
0.41538	0.49925	0.16168
0.50250	0.43115	-0.00164
0.00018	0.06901	0.00003
0.59042	0.50002	0.15637
0.58621	0.50010	0.84000
0.50093	0.56922	0.00054
0.08953	0.99976	0.84403
0.00023	0.93082	0.00002

POSCAR file for gb_p5_prime

POSCAR file from zrtcpb-gb-h2o-c.res: C: 140 F: 1 H: 114 O: 66 P: 1 ZR: 12
34.89200000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398

0.0004256087542374 0.0000053656439079 0.3214078049098053
140 1 114 66 1 12

Direct

0.79042 0.88197 0.29985
0.23344 0.21712 0.56421
0.73231 0.71733 0.43645
0.70708 0.68498 0.36613
0.64944 0.69053 0.29905
0.62016 0.66046 0.23943
0.85549 0.81233 0.31513
0.73644 0.64890 0.36642
0.61170 0.59195 0.19007
0.64749 0.62403 0.24679
0.70645 0.61852 0.30888
0.88494 0.84236 0.25513
0.20700 0.18452 0.63325
0.23420 0.78456 0.56320
0.20783 0.81715 0.63217
0.14449 0.81303 0.68143
0.11460 0.84298 0.74101
0.24137 0.85160 0.64735
0.11177 0.90989 0.80815
0.14684 0.87799 0.74913
0.21058 0.88219 0.70309
0.76014 0.85138 0.35646
0.73237 0.28384 0.56448
0.14292 0.18782 0.67985
0.70430 0.31626 0.63247
0.63695 0.31491 0.66181
0.60687 0.34525 0.71933
0.88797 0.90961 0.19082
0.74094 0.34855 0.66314
0.60897 0.41041 0.80391
0.64293 0.37827 0.74314
0.71010 0.37988 0.71471
0.85328 0.87760 0.25007
0.77533 0.21903 0.56274
0.11318 0.15738 0.73728
0.80337 0.18669 0.62852
0.86121 0.19171 0.69538
0.89075 0.16095 0.75105
0.77455 0.15048 0.62275
0.89633 0.09219 0.79883
0.86331 0.12464 0.73956
0.80464 0.11950 0.67638
0.24129 0.115031 0.64857
0.11179 0.09039 0.80474
0.14622 0.12262 0.74575
0.21059 0.111925 0.70181
0.73216 0.71706 0.56250
0.70585 0.68464 0.63201
0.26906 0.71787 0.56491
0.64553 0.68973 0.69183
0.61634 0.65994 0.75347
0.73717 0.64922 0.63883
0.61193 0.59220 0.81466
0.64620 0.62414 0.75398
0.70703 0.61896 0.69722
0.76690 0.78382 0.56363
0.79183 0.81618 0.63404
0.84759 0.81036 0.70595
0.87643 0.84040 0.76640
0.29437 0.68549 0.63462
0.76383 0.85259 0.62953
0.88579 0.90908 0.81323
0.84298 0.47957 0.81348
0.85045 0.87706 0.75537
0.90206 0.54459 -0.18587
0.82921 0.55316 -0.20168
0.81308 0.59516 -0.19617
0.79328 0.88289 0.68831
0.27346 0.28261 0.56192
0.30133 0.31501 0.62779
0.35776 0.30943 0.69807
0.38786 0.33993 0.75411
0.27428 0.35162 0.61928
0.39632 0.40885 0.79853
0.35079 0.69098 0.70507
0.36240 0.37662 0.73971
0.26750 0.28356 0.43650
0.30496 0.38234 0.67339
0.76840 0.21762 0.43748
0.79495 0.18493 0.36890
0.85958 0.18777 0.32459
0.29438 0.31612 0.36765
0.88892 0.15728 0.26674
0.75987 0.15109 0.35151
0.88882 0.09055 0.19624

0.37938	0.66076	0.76508
0.85496	0.12287	0.25594
0.79018	0.11992	0.29816
0.35964	0.31328	0.32647
0.26606	0.71705	0.43912
0.29121	0.68432	0.36954
0.35335	0.68822	0.31538
0.38170	0.65808	0.25434
0.25722	0.64987	0.35762
0.38319	0.59108	0.18832
0.34907	0.62311	0.24868
0.26566	0.64923	0.63083
0.28644	0.61918	0.29982
0.38965	0.34366	0.26909
0.23137	0.78373	0.43738
0.20617	0.81601	0.36727
0.15127	0.81009	0.29331
0.12273	0.84016	0.23254
0.23361	0.85255	0.37380
0.25934	0.34979	0.34752
0.11343	0.90891	0.18638
0.14827	0.87689	0.24509
0.38723	0.59208	0.81354
0.20454	0.88284	0.31450
0.38992	0.41020	0.19670
0.72594	0.28253	0.43913
0.69773	0.31473	0.37328
0.64460	0.30850	0.29549
0.61386	0.33884	0.23991
0.72131	0.35193	0.38921
0.60078	0.40807	0.20399
0.63552	0.37596	0.26181
0.68997	0.38241	0.33528
0.35254	0.62425	0.75503
0.35566	0.37796	0.25605
0.29024	0.38093	0.29484
0.74404	0.24940	0.37820
0.24742	0.74991	0.37853
0.25638	0.24936	0.62311
0.74947	0.75028	0.62270
0.25317	0.75173	0.62377
0.75780	0.25229	0.62359
0.74958	0.75089	0.37734
0.24429	0.25136	0.37768
0.29490	0.61875	0.68901
0.76685	0.78410	0.43756
0.22738	0.21807	0.43883
0.19933	0.18568	0.37305
0.14133	0.19101	0.30693
0.11122	0.16051	0.25092
0.22769	0.14935	0.37782
0.10439	0.09182	0.20224
0.13813	0.12405	0.26149
0.19694	0.11859	0.32402
0.79318	0.81664	0.36844
0.75138	0.44630	0.92707
0.79401	0.34955	0.64294
0.55468	0.34414	0.74547
0.60824	0.28958	0.63845
0.72783	0.58996	0.31273
0.23547	0.90969	0.71220
0.29213	0.85451	0.61425
0.06533	0.84012	0.78069
0.11849	0.78593	0.67057
0.78331	0.64469	0.41292
0.28494	0.41115	0.66587
0.22844	0.35579	0.56955
0.43205	0.33623	0.80910
0.57474	0.66425	0.18796
0.37875	0.28081	0.70533
0.74039	0.24883	0.28070
0.62677	0.71882	0.29740
0.77286	0.91163	0.68173
0.71844	0.85712	0.57879
0.92052	0.83642	0.82140
0.86926	0.78185	0.71068
0.24619	0.74941	0.28080
0.72992	0.59075	0.69932
0.78584	0.64540	0.59773
0.56929	0.66353	0.80064
0.62111	0.71750	0.68726
0.23618	0.09193	0.70957
0.29231	0.14790	0.61642
0.06336	0.15959	0.77502
0.11618	0.21466	0.66864
0.70681	0.41166	0.34900
0.76466	0.35674	0.44520
0.57196	0.33472	0.17967

0.62637	0.27947	0.28248
0.22451	0.91165	0.32231
0.27830	0.85713	0.42642
0.07922	0.83616	0.17608
0.12993	0.78153	0.28725
0.26109	0.59173	0.29414
0.20733	0.64710	0.39478
0.43022	0.66068	0.21163
0.37973	0.71529	0.32374
0.74890	0.75016	0.72047
0.76393	0.09286	0.28884
0.70855	0.14900	0.38233
0.93909	0.15921	0.23030
0.88698	0.21432	0.33745
0.25985	0.24898	0.72065
0.21799	0.08995	0.32875
0.27467	0.14543	0.42421
0.06590	0.16403	0.19892
0.11927	0.21943	0.30275
0.71084	0.52269	0.16535
0.58190	0.50554	0.57831
0.29218	0.52536	0.85294
0.41488	0.50230	0.42708
0.49075	0.50013	0.36087
0.57409	0.47414	0.37849
0.50722	0.49990	0.64456
0.42358	0.47347	0.62961
0.36058	0.44546	0.99476
0.49522	0.55507	0.25565
0.50398	0.55531	0.75085
0.64472	0.44984	0.00422
0.30339	0.50177	-0.01257
0.28704	0.52489	0.13141
0.07890	0.02542	0.37835
0.21644	0.02183	0.86384
0.19626	0.99926	0.00350
0.99496	0.00216	0.35615
0.78339	0.02197	0.13677
0.80348	0.99947	0.99560
0.92038	0.02576	0.62169
0.00477	0.00255	0.64366
0.13758	0.05544	0.00701
0.86251	0.05562	0.99379
-0.00005	0.94479	0.25023
-0.00064	0.94503	0.74905
0.21020	0.97619	0.14081
0.92072	0.99112	0.41937
0.78999	0.97617	0.85971
0.07853	0.99116	0.58039
0.26409	0.40790	0.28254
0.20751	0.35181	0.37561
0.44027	0.34166	0.23476
0.38697	0.28681	0.34137
0.76187	0.25293	0.72102
0.76583	0.90961	0.29294
0.71004	0.85447	0.39240
0.93349	0.83938	0.21273
0.88118	0.78504	0.32338
0.25449	0.75229	0.72149
0.27384	0.59014	0.68306
0.21977	0.64501	0.58132
0.42391	0.66449	0.81910
0.37316	0.71932	0.70907
0.75007	0.75102	0.27958
0.78321	0.09097	0.67106
0.72770	0.14688	0.57566
0.93596	0.16414	0.80355
0.88364	0.22002	0.70039
0.24068	0.25175	0.28016
0.73807	0.40569	0.73506
0.84587	0.44833	0.81114
0.83319	0.48941	0.72190
0.89073	0.49072	0.84547
0.91146	0.51374	0.80985
0.91934	0.55510	-0.09857
0.93154	0.55849	-0.25629
0.81204	0.54142	0.71252
0.81647	0.60817	-0.28540
0.84832	0.60988	-0.13681
0.76243	0.59970	-0.16234
0.71486	0.47956	0.11045
0.82545	0.49364	0.09510
0.43416	0.40069	0.12155
0.93746	0.10119	0.87965
0.37026	0.55818	0.78747
0.56668	0.60172	0.88809
0.13039	0.05655	0.78120
0.06591	0.09969	0.87664

0.62862	0.55840	0.78852
0.43718	0.39976	0.87955
0.86863	0.94305	0.78832
0.93280	0.90004	0.11673
0.37288	0.44399	0.22320
0.93265	0.89975	0.88270
0.38242	0.44264	0.76611
0.43015	0.60040	0.11888
0.86982	0.05677	0.21931
0.93467	0.09982	0.12420
0.36469	0.55714	0.21119
0.87230	0.94351	0.21862
0.56165	0.39896	0.12042
0.13065	0.94283	0.21165
0.06698	0.89962	0.11600
0.61246	0.44169	0.24016
0.19182	0.00003	0.11072
0.94043	0.00258	0.34841
0.69291	0.49698	0.17259
0.43696	0.50201	0.34958
0.80622	0.99950	0.10668
0.06279	0.00089	0.34908
0.30571	0.50112	0.10134
0.55925	0.49949	0.35403
0.80780	0.00020	0.88952
0.05911	0.00292	0.65115
0.30805	0.50100	0.88373
0.56047	0.50115	0.65515
0.19368	0.99930	0.89370
0.93655	0.00126	0.65105
0.43734	0.49928	0.65130
0.00063	0.96109	0.18008
0.49655	0.47113	0.13460
0.99801	0.02940	0.13421
0.49716	0.53950	0.18386
0.99894	0.96129	0.81928
0.50276	0.47165	0.86876
0.00189	0.02954	0.86606
0.50081	0.53978	0.82255
0.07328	0.97100	0.99929
0.60104	0.46260	0.00901
0.90138	0.03931	0.99522
0.42715	0.52951	0.00028
0.92639	0.97106	0.00026
0.39957	0.46174	-0.00436
0.09866	0.03917	0.00521
0.57418	0.53046	0.00577
0.56391	0.60134	0.12282
0.11884	0.05803	0.23355
0.06325	0.10103	0.12160
0.62947	0.55801	0.21362
0.56506	0.40055	0.87941
0.12734	0.94382	0.78045
0.06685	0.90019	0.88185
0.62553	0.44422	0.77827
0.43312	0.60133	0.88511
0.88129	0.05849	0.76736
0.70327	0.50019	0.86261
0.79382	0.53531	-0.10481
0.77925	0.49485	0.07005
0.77247	0.49101	0.91078
0.91315	0.00048	0.83917
0.91075	0.99986	0.15631
0.08666	0.00021	0.16089
0.41461	0.50048	0.83922
0.40848	0.50036	0.15617
0.50031	0.43147	0.00037
0.00018	0.06924	0.00050
0.58259	0.50021	0.16630
0.59076	0.50108	0.84908
0.49946	0.56986	0.00267
0.08891	0.99994	0.84358
-0.00025	0.93088	-0.00045

POSCAR file for gb_product

POSCAR file from zrtcpb-gb-h2o-c.res: C:

34.89200000000000	34.89200000000000	34.89200000000000
0.5792995890490465	-0.0000450140396845	0.0007649282407427
-0.0000781726227076	1.0082675674799713	0.0000166934211398
0.0004256087542374	0.0000053656439079	0.3214078049098053
140	1	114
66	1	12

Direct

0.79138	0.88310	0.30035
0.23285	0.21776	0.56402
0.73149	0.71921	0.43215
0.70675	0.68725	0.35916

0.64508	0.69162	0.30430
0.61623	0.66159	0.24386
0.85725	0.81372	0.31955
0.74061	0.65281	0.34573
0.61179	0.59393	0.18630
0.64785	0.62629	0.23997
0.71079	0.62221	0.28902
0.88678	0.84360	0.25921
0.20605	0.18520	0.63296
0.23379	0.78391	0.56314
0.20743	0.81649	0.63239
0.14315	0.81312	0.67808
0.11373	0.84323	0.73774
0.24218	0.85038	0.65078
0.11269	0.90979	0.80843
0.14731	0.87774	0.74914
0.21187	0.88121	0.70621
0.76110	0.85266	0.35746
0.72946	0.28277	0.56416
0.14089	0.18774	0.67484
0.70163	0.31539	0.63112
0.63324	0.31636	0.65144
0.60424	0.34726	0.70784
0.88881	0.91033	0.19114
0.74044	0.34605	0.66841
0.61138	0.41121	0.80169
0.64286	0.37866	0.73894
0.71080	0.37794	0.71830
0.85452	0.87861	0.25192
0.77447	0.21855	0.56197
0.11153	0.15719	0.73246
0.80318	0.18632	0.62724
0.85953	0.19188	0.69770
0.88960	0.16129	0.75331
0.77630	0.14968	0.61771
0.89761	0.09234	0.79784
0.86415	0.12463	0.73845
0.80688	0.11893	0.67158
0.24161	0.15166	0.65254
0.11234	0.09069	0.80501
0.14606	0.12305	0.74535
0.21135	0.12042	0.70556
0.72767	0.71871	0.55786
0.70093	0.68593	0.62427
0.26965	0.71739	0.56346
0.64566	0.69150	0.69813
0.61733	0.66125	0.75876
0.72780	0.64934	0.61519
0.61148	0.59251	0.80900
0.64310	0.62462	0.74516
0.69852	0.61883	0.67316
0.76409	0.78511	0.56380
0.78929	0.81716	0.63577
0.84498	0.81085	0.70732
0.87474	0.84064	0.76777
0.29520	0.68488	0.63251
0.76227	0.85376	0.63135
0.88626	0.90934	0.81335
0.81846	0.46242	0.81462
0.84986	0.87752	0.75659
0.89906	0.54671	0.78595
0.82733	0.55133	0.82440
0.81348	0.59168	0.86462
0.79274	0.88382	0.68977
0.27497	0.28278	0.56132
0.30337	0.31509	0.62701
0.35840	0.30913	0.70047
0.38893	0.33951	0.75644
0.27803	0.35200	0.61524
0.39989	0.40856	0.79661
0.35103	0.69044	0.70435
0.36537	0.37645	0.73862
0.26937	0.28364	0.43592
0.30919	0.38258	0.66919
0.76728	0.21715	0.43678
0.79472	0.18467	0.36839
0.86083	0.18683	0.33150
0.29704	0.31604	0.36721
0.89043	0.15643	0.27361
0.75859	0.15164	0.34442
0.88905	0.09056	0.19573
0.37980	0.66019	0.76394
0.85514	0.12276	0.25594
0.78907	0.12046	0.29148
0.36335	0.31381	0.33142
0.26692	0.71684	0.43772
0.29227	0.68420	0.36778
0.35517	0.68773	0.31627

0.38337	0.65758	0.25499
0.25751	0.65010	0.35304
0.38378	0.59088	0.18588
0.34989	0.62292	0.24664
0.26730	0.64844	0.62666
0.28658	0.61936	0.29526
0.39345	0.34414	0.27386
0.23125	0.78337	0.43737
0.20604	0.81580	0.36778
0.15203	0.80989	0.29177
0.12365	0.84002	0.23104
0.23272	0.85248	0.37670
0.26124	0.34911	0.34215
0.11375	0.90891	0.18694
0.14843	0.87684	0.24571
0.38859	0.59150	0.81057
0.20381	0.88282	0.31741
0.39239	0.41001	0.19533
0.72299	0.28153	0.43885
0.69546	0.31405	0.37365
0.64290	0.30842	0.29431
0.61333	0.33918	0.23896
0.71963	0.35103	0.39166
0.60222	0.40846	0.20394
0.63561	0.37607	0.26265
0.68949	0.38191	0.33792
0.35370	0.62355	0.75214
0.35841	0.37784	0.25551
0.29210	0.38026	0.28951
0.74169	0.24860	0.37756
0.24798	0.74979	0.37776
0.25662	0.24982	0.62280
0.74420	0.75169	0.62053
0.25315	0.75103	0.62306
0.75597	0.25154	0.62327
0.75091	0.75263	0.37530
0.24520	0.25164	0.37719
0.29668	0.61793	0.68447
0.76710	0.78557	0.43806
0.22714	0.21862	0.43865
0.19903	0.18614	0.37321
0.14211	0.19149	0.30413
0.11220	0.16086	0.24837
0.22652	0.14965	0.38133
0.10472	0.09198	0.20283
0.13820	0.12429	0.26212
0.19594	0.11880	0.32777
0.79446	0.81809	0.37086
0.64985	0.41650	0.99154
0.79409	0.34531	0.65404
0.55117	0.34773	0.72762
0.60286	0.29232	0.62229
0.73587	0.59468	0.28339
0.23778	0.90831	0.71751
0.29349	0.85271	0.62003
0.06378	0.84089	0.77493
0.11605	0.78650	0.66461
0.79058	0.64992	0.38192
0.29050	0.41160	0.65906
0.23328	0.35655	0.56269
0.43206	0.33547	0.81389
0.56786	0.66440	0.20121
0.37798	0.28026	0.71047
0.73821	0.24808	0.28003
0.61927	0.71888	0.31249
0.77326	0.91277	0.68286
0.71712	0.85878	0.58032
0.91876	0.83624	0.82265
0.86598	0.78216	0.71184
0.24705	0.74954	0.27999
0.71845	0.59001	0.66507
0.77275	0.64492	0.56277
0.57425	0.66518	0.81674
0.62440	0.72006	0.70549
0.23803	0.09357	0.71656
0.29331	0.14988	0.62355
0.06093	0.15886	0.76704
0.11310	0.21406	0.66024
0.70714	0.41096	0.35257
0.76265	0.35530	0.44893
0.57200	0.33554	0.17716
0.62429	0.27954	0.27954
0.22315	0.91173	0.32703
0.27663	0.85717	0.43134
0.08084	0.83600	0.17286
0.13120	0.78123	0.28390
0.26052	0.59219	0.28745
0.20711	0.64766	0.38816

0.43236	0.65996	0.21393
0.38222	0.71450	0.32671
0.74185	0.75119	0.71824
0.76189	0.09393	0.27714
0.70635	0.15014	0.37033
0.94171	0.15786	0.24235
0.88905	0.21276	0.34975
0.25970	0.24954	0.72040
0.21632	0.09006	0.33500
0.27266	0.14565	0.43034
0.06774	0.16437	0.19399
0.12071	0.22002	0.29719
0.69700	0.52882	0.21263
0.58445	0.51238	0.58515
0.29448	0.52442	0.84940
0.41519	0.50202	0.42383
0.49189	0.50087	0.35886
0.57598	0.47686	0.38343
0.51167	0.49918	0.64434
0.42715	0.47359	0.62623
0.36365	0.44486	0.99169
0.49633	0.55496	0.25381
0.50506	0.55565	0.75031
0.64824	0.44955	0.00171
0.30552	0.50081	0.98199
0.28751	0.52358	0.12855
0.07937	0.02529	0.37944
0.21763	0.02187	0.86502
0.19710	0.99923	0.00574
0.99500	0.00244	0.35595
0.78377	0.02197	0.13463
0.80436	0.99976	0.99409
0.92241	0.02555	0.62008
0.00639	0.00249	0.64382
0.13852	0.05552	0.00772
0.86328	0.05579	0.99260
0.00056	0.94505	0.25016
0.00055	0.94501	0.74927
0.21037	0.97590	0.14178
0.92102	0.99068	0.41766
0.79093	0.97684	0.85683
0.08040	0.99072	0.58188
0.26520	0.40679	0.27348
0.20881	0.35067	0.36674
0.44490	0.34251	0.24360
0.39136	0.28785	0.35040
0.76004	0.25215	0.72072
0.76667	0.91065	0.29157
0.71072	0.85561	0.39224
0.93571	0.84074	0.21815
0.88303	0.78651	0.32949
0.25425	0.75134	0.72081
0.27618	0.58923	0.67688
0.22189	0.64410	0.57578
0.42394	0.66403	0.81888
0.37286	0.71890	0.70985
0.75342	0.75316	0.27763
0.78693	0.09011	0.66369
0.73062	0.14558	0.56738
0.93376	0.16487	0.80843
0.88049	0.22051	0.70551
0.24195	0.25192	0.27962
0.73987	0.40278	0.74383
0.79855	0.43467	0.78910
0.82401	0.48062	0.73539
0.86751	0.45863	0.85547
0.91028	0.51736	0.75825
0.93173	0.55386	0.86147
0.91121	0.56591	0.71126
0.79346	0.54388	0.75005
0.82491	0.61232	0.79342
0.84467	0.59845	0.94248
0.76118	0.59507	0.89000
0.72934	0.49088	0.15161
0.80422	0.45576	0.06688
0.43650	0.40051	0.11996
0.93814	0.10150	0.87956
0.37222	0.55748	0.78459
0.56798	0.60160	0.88615
0.13149	0.05692	0.78216
0.06639	0.09995	0.87693
0.62879	0.55873	0.78253
0.44059	0.39957	0.87804
0.86972	0.94338	0.78787
0.93321	0.90053	0.11659
0.37512	0.44380	0.22132
0.93329	0.89987	0.88242
0.38679	0.44239	0.76329

0.43070 0.60024 0.11636
 0.86973 0.05677 0.21780
 0.93516 0.09997 0.12441
 0.36530 0.55692 0.20824
 0.87306 0.94429 0.21834
 0.56437 0.39954 0.11801
 0.13098 0.94284 0.21237
 0.06735 0.89967 0.11626
 0.61320 0.44199 0.24098
 0.19260 -0.00007 0.11183
 0.94060 0.00306 0.34809
 0.69230 0.50095 0.20372
 0.43771 0.50242 0.34681
 0.80675 0.99957 0.10437
 0.06311 0.00092 0.34918
 0.30765 0.50022 0.09847
 0.55939 0.50103 0.35211
 0.80898 0.00073 0.88730
 0.06088 0.00300 0.65166
 0.31061 0.50011 0.88027
 0.56489 0.49962 0.65397
 0.19462 0.99938 0.89462
 0.93846 0.00115 0.65044
 0.44131 0.49915 0.64978
 0.00118 0.96132 0.17994
 0.49845 0.47111 0.13310
 0.99864 0.02965 0.13428
 0.49830 0.53964 0.18155
 0.00019 0.96137 0.81929
 0.50672 0.47205 0.86838
 0.00312 0.02969 0.86613
 0.50319 0.53970 0.82122
 0.07416 0.97109 0.99972
 0.60593 0.46363 0.00946
 0.90223 0.03954 0.99422
 0.42887 0.52924 -0.00195
 0.92724 0.97129 -0.00038
 0.40230 0.46141 0.99315
 0.09952 0.03931 0.00585
 0.57619 0.53089 0.00510
 0.56338 0.60261 0.11994
 0.11923 0.05820 0.23431
 0.06370 0.10113 0.12185
 0.62927 0.56012 0.21247
 0.56801 0.40143 0.87826
 0.12866 0.94370 0.78114
 0.06763 0.90016 0.88203
 0.62911 0.44489 0.77766
 0.43433 0.60086 0.88243
 0.88342 0.05861 0.76554
 0.70112 0.50399 0.87897
 0.81422 0.52666 0.92256
 0.75767 0.46056 0.04415
 0.76634 0.48642 0.92135
 0.91445 0.00062 0.83835
 0.91139 0.00014 0.15525
 0.08710 0.00036 0.16132
 0.41774 0.50008 0.83678
 0.40957 0.50024 0.15405
 0.50307 0.43151 -0.00105
 0.00095 0.06937 0.00036
 0.58359 0.50031 0.16564
 0.59504 0.50169 0.84915
 0.50047 0.56994 0.00068
 0.09019 0.00001 0.84422
 0.00055 0.93106 0.99919

POSCAR file for gd_solvant

POSCAR file from zrtcpb-gd-h2o-c.res: C: 143 F: 1 H: 120 O: 66 P: 1 ZR: 12
 34.8920000000000
 0.5792995890490465 -0.0000450140396845 0.0007649282407427
 -0.0000781726227076 1.0082675674799713 0.0000166934211398
 0.0004256087542374 0.0000053656439079 0.3214078049098053
 143 1 120 66 1 12
 Direct
 0.79102 0.88175 0.29982
 0.64919 0.62376 0.24267
 0.23247 0.78362 0.43772
 0.20691 0.81587 0.36790
 0.15159 0.80993 0.29502
 0.12298 0.83994 0.23410
 0.23456 0.85236 0.37353
 0.26009 0.34983 0.35104
 0.11398 0.90854 0.18664
 0.14883 0.87662 0.24559
 0.38684 0.59189 0.81619

0.20538	0.88261	0.31419
0.70904	0.61889	0.30229
0.39147	0.40991	0.20112
0.72418	0.28123	0.43930
0.69530	0.31311	0.37313
0.64057	0.30676	0.29911
0.61008	0.33697	0.24231
0.72054	0.35013	0.38432
0.60003	0.40601	0.19967
0.63371	0.37392	0.25930
0.68961	0.38044	0.32902
0.35335	0.62416	0.75594
0.88589	0.84219	0.25672
0.35669	0.37770	0.25969
0.29146	0.38095	0.29921
0.74154	0.24788	0.37876
0.24893	0.74996	0.37842
0.25571	0.24886	0.62380
0.74814	0.75023	0.62180
0.25459	0.75149	0.62367
0.75866	0.25177	0.62345
0.74955	0.75092	0.37653
0.24449	0.25106	0.37824
0.20698	0.18394	0.63304
0.29560	0.61881	0.69018
0.76696	0.78400	0.43745
0.22759	0.21770	0.43894
0.19979	0.18533	0.37268
0.14142	0.19054	0.30756
0.11143	0.16000	0.25156
0.22872	0.14915	0.37627
0.10510	0.09137	0.20242
0.13886	0.12364	0.26122
0.19810	0.11834	0.32251
0.23529	0.78432	0.56348
0.79375	0.81650	0.36890
0.20882	0.81681	0.63270
0.14572	0.81256	0.68288
0.11577	0.84251	0.74238
0.24212	0.85138	0.64708
0.11250	0.90949	0.80831
0.23325	0.21663	0.56431
0.14771	0.87763	0.74956
0.21127	0.88196	0.70277
0.76062	0.85119	0.35626
0.73249	0.28309	0.56427
0.14323	0.18733	0.68100
0.70460	0.31570	0.63179
0.63790	0.31357	0.66519
0.60714	0.34404	0.72070
0.88864	0.90926	0.19118
0.74008	0.34888	0.65720
0.73183	0.71735	0.43499
0.60638	0.41014	0.79670
0.64175	0.37792	0.73896
0.70840	0.38020	0.70726
0.85404	0.87736	0.25081
0.89999	0.47640	0.96019
0.95046	0.53369	1.10605
0.88024	0.48227	1.16947
0.77572	0.21835	0.56289
0.11368	0.15689	0.73870
0.80427	0.18614	0.62847
0.86196	0.19132	0.69560
0.89163	0.16065	0.75151
0.77582	0.14982	0.62233
0.70714	0.68500	0.36366
0.89744	0.09188	0.79963
0.86448	0.12427	0.74002
0.80604	0.11895	0.67626
0.24118	0.14966	0.64724
0.11237	0.08984	0.80543
0.14662	0.12207	0.74620
0.21069	0.11862	0.70093
0.73090	0.71708	0.56097
0.70474	0.68452	0.62977
0.27087	0.71778	0.56438
0.64836	0.68992	0.29949
0.64628	0.68967	0.69534
0.61724	0.65954	0.75568
0.73431	0.64854	0.62934
0.61118	0.59097	0.80894
0.64510	0.62325	0.74882
0.70382	0.61804	0.68556
0.76642	0.78368	0.56328
0.79164	0.81595	0.63402
0.84748	0.81001	0.70553
0.87653	0.83998	0.76619

0.62004	0.65976	0.23863
0.29622	0.68537	0.63399
0.76386	0.85239	0.62978
0.88633	0.90863	0.81317
0.80723	0.52911	0.74726
0.85077	0.87669	0.75543
0.89650	0.50666	0.05922
0.85191	0.53930	0.02472
0.83826	0.56626	0.12644
0.79360	0.88263	0.68847
0.27276	0.28217	0.56306
0.85632	0.81221	0.31671
0.30024	0.31453	0.62952
0.35709	0.30908	0.69873
0.38676	0.33959	0.75535
0.27232	0.35095	0.62257
0.39385	0.40837	0.80208
0.35303	0.69069	0.70355
0.36037	0.37611	0.74261
0.26731	0.28323	0.43763
0.30252	0.38168	0.67738
0.76732	0.21650	0.43799
0.73840	0.64948	0.35992
0.79418	0.18385	0.36954
0.85917	0.18676	0.32700
0.29450	0.31585	0.36954
0.88898	0.15637	0.26944
0.75920	0.15006	0.35065
0.88924	0.08978	0.19740
0.38113	0.66047	0.76436
0.85508	0.12198	0.25716
0.78997	0.11898	0.29764
0.35957	0.31272	0.32768
0.61465	0.59142	0.18440
0.26798	0.71709	0.43858
0.29344	0.68452	0.36869
0.35504	0.68881	0.31284
0.38376	0.65876	0.25194
0.26027	0.64976	0.35837
0.38653	0.59133	0.18890
0.35207	0.62349	0.24815
0.26687	0.64929	0.63127
0.28989	0.61919	0.30071
0.39000	0.34312	0.27116
0.80640	0.46593	0.87025
0.79271	0.35047	0.63397
0.55544	0.34245	0.74954
0.61010	0.28754	0.64608
0.73142	0.59055	0.30393
0.23594	0.90953	0.71121
0.29273	0.85437	0.61334
0.06669	0.83956	0.78273
0.11995	0.78535	0.67273
0.78632	0.64589	0.40346
0.28189	0.41039	0.67134
0.22617	0.35491	0.57356
0.43130	0.33610	0.80956
0.57396	0.66309	0.18873
0.37866	0.28057	0.70468
0.73646	0.24700	0.28149
0.62418	0.71779	0.30059
0.77340	0.91142	0.68176
0.71850	0.85704	0.57901
0.92062	0.83585	0.82109
0.86906	0.78147	0.70995
0.24763	0.74957	0.28067
0.72406	0.58928	0.67916
0.78155	0.64451	0.58347
0.57162	0.66320	0.80710
0.62301	0.71780	0.69611
0.23619	0.09126	0.70801
0.29201	0.14721	0.61412
0.06411	0.15914	0.77748
0.11663	0.21426	0.67067
0.70820	0.40955	0.33683
0.76532	0.35477	0.43670
0.56716	0.33284	0.18443
0.62111	0.27784	0.28987
0.22551	0.91141	0.32132
0.27955	0.85693	0.42539
0.07921	0.83595	0.17827
0.13003	0.78140	0.28986
0.26539	0.59146	0.29660
0.21076	0.64666	0.39682
0.43191	0.66162	0.20804
0.38077	0.71613	0.31995
0.74717	0.75002	0.71959
0.76383	0.09192	0.28724

0.70765	0.14791	0.38024
0.93941	0.15840	0.23428
0.88640	0.21332	0.34088
0.25891	0.24841	0.72138
0.21957	0.08979	0.32634
0.27601	0.14539	0.42176
0.06579	0.16341	0.20037
0.11901	0.21888	0.30415
0.71441	0.51556	0.15672
0.57554	0.49778	0.57572
0.28677	0.52265	0.85627
0.41502	0.49886	0.41850
0.50587	0.49854	0.35838
0.57272	0.46940	0.36389
0.49767	0.49983	0.64459
0.41907	0.47289	0.63310
0.36044	0.44489	0.00074
0.49938	0.55385	0.25470
0.50165	0.55377	0.74751
0.64281	0.44561	0.00657
0.30308	0.50155	0.01051
0.29462	0.52779	0.13545
0.08005	0.02493	0.37864
0.21712	0.02127	0.86441
0.19694	0.99871	0.00390
0.99571	0.00170	0.35670
0.78367	0.02130	0.13580
0.80416	0.99900	0.99659
0.92128	0.02560	0.62261
0.00546	0.00221	0.64394
0.13831	0.05488	0.00768
0.86310	0.05509	0.99449
0.00043	0.94428	0.25056
-0.00008	0.94451	0.74934
0.21086	0.97565	0.14131
0.92163	0.99114	0.42074
0.79026	0.97623	0.85815
0.07926	0.99077	0.58093
0.26583	0.40816	0.28828
0.20840	0.35207	0.37977
0.44049	0.34095	0.23629
0.38638	0.28601	0.34134
0.76366	0.225265	0.72074
0.76640	0.90937	0.29235
0.71037	0.85420	0.39158
0.93463	0.83924	0.21500
0.88206	0.78495	0.32569
0.25595	0.75190	0.72140
0.27417	0.59027	0.68521
0.22084	0.64524	0.58202
0.42585	0.66405	0.81799
0.37595	0.71890	0.70645
0.75023	0.75123	0.27875
0.78486	0.09036	0.67088
0.72915	0.14607	0.57476
0.93674	0.16398	0.80422
0.88421	0.21969	0.70053
0.24121	0.25152	0.28067
0.73505	0.40686	0.72258
0.78795	0.51734	0.66321
0.79476	0.55956	0.75217
0.86129	0.52540	0.75044
0.87244	0.55509	-0.05249
0.88447	0.58039	0.15378
0.81864	0.55030	0.20357
0.80203	0.58819	0.10131
0.71383	0.44528	0.10710
0.74971	0.43053	0.00259
0.91794	0.47775	0.86387
0.85728	0.45561	0.97266
0.94293	0.45593	0.97489
0.98380	0.51758	1.17054
0.96789	0.54363	1.01449
0.93982	0.56329	1.14274
0.87244	0.49842	1.25647
0.91864	0.45904	1.18470
0.83645	0.46185	1.17057
0.43566	0.40033	0.12599
0.93817	0.10092	0.88112
0.36851	0.55815	0.79169
0.56587	0.60045	0.88188
0.13100	0.05602	0.78191
0.06652	0.09914	0.87746
0.62851	0.55715	0.78344
0.43460	0.39923	0.88327
0.86942	0.94262	0.78815
0.93339	0.89966	0.11700
0.37479	0.44370	0.22833

0.93320	0.89927	0.88269
0.37964	0.44207	0.76986
0.43452	0.60047	0.12141
0.87021	0.05595	0.22003
0.93518	0.09917	0.12574
0.36737	0.55752	0.21078
0.87291	0.94319	0.21869
0.56346	0.39711	0.11202
0.13117	0.94248	0.21178
0.06758	0.89921	0.11620
0.60956	0.43938	0.23895
0.19256	0.99951	0.11119
0.94133	0.00208	0.34894
0.69058	0.49180	0.16895
0.44023	0.50312	0.34557
0.80670	0.99888	0.10580
0.06382	0.00043	0.34937
0.30627	0.50200	0.10972
0.56113	0.49640	0.35378
0.80870	-0.00001	0.88881
0.05981	0.00262	0.65151
0.30691	0.49979	0.88967
0.55401	0.50253	0.65230
0.19428	0.99876	0.89421
0.93726	0.00096	0.65116
0.43330	0.49864	0.65439
0.00124	0.96060	0.18045
0.49937	0.47034	0.13342
0.99868	0.02884	0.13476
0.50208	0.53892	0.18161
0.99958	0.96084	0.81944
0.49942	0.47092	0.86708
0.00252	0.02906	0.86673
0.49846	0.53905	0.82096
0.07384	0.97052	-0.00036
0.60094	0.46142	0.00015
0.90203	0.03882	0.99579
0.42805	0.52908	0.00289
0.92702	0.97059	0.00046
0.39292	0.46128	0.00051
0.09932	0.03866	0.00582
0.57586	0.52957	0.99892
0.56756	0.60083	0.11545
0.11969	0.05760	0.23371
0.06369	0.10052	0.12211
0.63292	0.55767	0.20804
0.56208	0.40045	0.87091
0.12792	0.94343	0.78047
0.06758	0.89979	0.88201
0.62233	0.44440	0.76871
0.43289	0.60098	0.88767
0.88271	0.05819	0.76772
0.69701	0.49870	0.85843
0.78679	0.52490	0.98887
0.71363	0.42983	0.06012
0.76840	0.50530	0.86837
0.58497	0.49957	0.84211
0.58887	0.49945	0.15795
0.00080	0.06873	0.00124
0.49994	0.43092	0.00033
0.41338	0.49959	0.16217
0.40998	0.50041	0.84415
0.08740	-0.00029	0.16136
0.91149	0.99932	0.15666
0.91373	0.00001	0.83933
0.50045	0.56905	0.00163
0.00034	0.93037	-0.00040
0.08953	0.99948	0.84397

POSCAR file for gd_p5

POSCAR file from zrtcpb-gd-h2o-c.res: C: 143 F: 1 H: 120 O: 66 P: 1 ZR: 12
34.8920000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053

143 1 120 66 1 12

Direct

0.79062	0.88169	0.29923
0.64897	0.62385	0.24266
0.23252	0.78370	0.43769
0.20695	0.81595	0.36794
0.15198	0.80990	0.29435
0.12329	0.83987	0.23340
0.23427	0.85251	0.37427
0.25997	0.34947	0.34909
0.11381	0.90853	0.18678

0.14875	0.87662	0.24558
0.38541	0.59181	0.81672
0.20503	0.88271	0.31483
0.70917	0.61906	0.30120
0.39152	0.41003	0.20173
0.72370	0.28123	0.43927
0.69476	0.31312	0.37315
0.64029	0.30676	0.29853
0.60986	0.33698	0.24164
0.71978	0.35017	0.38499
0.59978	0.40605	0.19904
0.63332	0.37395	0.25902
0.68893	0.38047	0.32947
0.35224	0.62406	0.75602
0.88596	0.84230	0.25777
0.35687	0.37775	0.26015
0.29126	0.38070	0.29776
0.74136	0.24795	0.37869
0.24911	0.75011	0.37827
0.25581	0.24885	0.62351
0.74807	0.75031	0.62220
0.25427	0.75146	0.62361
0.75839	0.25186	0.62347
0.74950	0.75087	0.37691
0.24462	0.25095	0.37786
0.20667	0.18402	0.63290
0.29462	0.61879	0.68984
0.76683	0.78400	0.43768
0.22755	0.21766	0.43875
0.19967	0.18527	0.37275
0.14158	0.19055	0.30689
0.11149	0.16000	0.25106
0.22820	0.14900	0.37740
0.10477	0.09133	0.20282
0.13853	0.12358	0.26165
0.19747	0.11819	0.32385
0.23508	0.78432	0.56345
0.79356	0.81652	0.36908
0.20849	0.81679	0.63262
0.14508	0.81265	0.68159
0.11515	0.84258	0.74117
0.24208	0.85122	0.64815
0.11240	0.90946	0.80864
0.23312	0.21664	0.56413
0.14747	0.87758	0.74963
0.21128	0.88180	0.70388
0.76022	0.85111	0.35561
0.73202	0.28313	0.56423
0.14263	0.18729	0.67973
0.70415	0.31580	0.63153
0.63700	0.31420	0.66226
0.60647	0.34476	0.71767
0.88848	0.90931	0.19142
0.74020	0.34857	0.65937
0.73173	0.71736	0.43556
0.60641	0.41055	0.79610
0.64174	0.37827	0.73836
0.70881	0.38005	0.70918
0.85388	0.87740	0.25105
0.93317	0.49132	0.94388
0.98110	0.55337	0.00251
0.90889	0.51739	0.14615
0.77560	0.21848	0.56292
0.11309	0.15686	0.73751
0.80413	0.18623	0.62842
0.86141	0.19147	0.69662
0.89119	0.16078	0.75228
0.77612	0.14983	0.62107
0.70693	0.68501	0.36423
0.89752	0.09193	0.79914
0.86453	0.12432	0.73957
0.80643	0.11895	0.67481
0.24111	0.14987	0.64828
0.11219	0.08993	0.80558
0.14631	0.12214	0.74613
0.21063	0.11881	0.70190
0.73072	0.71714	0.56149
0.70431	0.68467	0.63028
0.27063	0.71780	0.56416
0.64772	0.68985	0.30134
0.64635	0.69013	0.69700
0.61678	0.66008	0.75684
0.73296	0.64845	0.62842
0.60921	0.59137	0.80766
0.64364	0.62358	0.74837
0.70196	0.61804	0.68422
0.76636	0.78373	0.56352
0.79164	0.81605	0.63401

0.84740	0.81010	0.70568
0.87647	0.84006	0.76634
0.61942	0.65976	0.24013
0.29577	0.68533	0.63368
0.76399	0.85253	0.62945
0.88633	0.90872	0.81323
0.75913	0.54009	0.75755
0.85079	0.87679	0.75542
0.92061	0.52761	0.01536
0.86057	0.54855	-0.03676
0.83836	0.58365	0.02988
0.79373	0.88276	0.68816
0.27307	0.28207	0.56258
0.85637	0.81232	0.31771
0.30054	0.31444	0.62899
0.35694	0.30893	0.69931
0.38638	0.33944	0.75645
0.27289	0.35089	0.62106
0.39334	0.40827	0.80285
0.35251	0.69055	0.70342
0.36021	0.37597	0.74297
0.26760	0.28310	0.43718
0.30288	0.38160	0.67633
0.76731	0.21662	0.43799
0.73851	0.64962	0.35909
0.79426	0.18395	0.36970
0.85972	0.18647	0.32930
0.29482	0.31574	0.36921
0.88931	0.11564	0.27153
0.75871	0.15048	0.34881
0.88875	0.08977	0.19707
0.38029	0.66029	0.76445
0.85473	0.12196	0.25708
0.78923	0.11932	0.29576
0.36033	0.31293	0.32939
0.61445	0.59157	0.18401
0.26798	0.71721	0.43841
0.29335	0.68466	0.36846
0.35518	0.68884	0.31337
0.38380	0.65877	0.25242
0.25982	0.65005	0.35727
0.38615	0.59144	0.18906
0.35176	0.62362	0.24800
0.26621	0.64932	0.63066
0.28935	0.61945	0.29966
0.39071	0.34340	0.27317
0.80535	0.46800	0.79981
0.79311	0.34978	0.63803
0.55442	0.34352	0.74459
0.60873	0.28849	0.64133
0.73192	0.59082	0.30184
0.23617	0.90930	0.71323
0.29288	0.85409	0.61524
0.06577	0.83975	0.78052
0.11905	0.78557	0.67039
0.78667	0.64606	0.40184
0.28252	0.41035	0.66954
0.22717	0.35491	0.57086
0.43051	0.33589	0.81167
0.57304	0.66309	0.19112
0.37834	0.28040	0.70584
0.73643	0.24707	0.28143
0.62328	0.71764	0.30354
0.77361	0.91157	0.68137
0.71875	0.85722	0.57843
0.92051	0.83592	0.82137
0.86889	0.78154	0.71034
0.24800	0.74977	0.28057
0.72146	0.58913	0.67686
0.77983	0.64415	0.58162
0.57150	0.66396	0.80911
0.62382	0.71845	0.69894
0.23633	0.09153	0.70982
0.29211	0.14753	0.61601
0.06329	0.115903	0.77546
0.11582	0.21411	0.66849
0.70738	0.40961	0.33780
0.76429	0.35483	0.43811
0.56713	0.33283	0.18330
0.62101	0.27781	0.28879
0.22489	0.91156	0.32232
0.27899	0.85716	0.42677
0.07976	0.83577	0.17706
0.13082	0.78128	0.28858
0.26463	0.59179	0.29486
0.21013	0.64707	0.39508
0.43210	0.66152	0.20897
0.38114	0.71607	0.32105

0.74722	0.75014	0.71994
0.76252	0.09250	0.28389
0.70689	0.14863	0.37704
0.94011	0.15778	0.23792
0.88750	0.21274	0.34491
0.25903	0.24843	0.72105
0.21862	0.08958	0.32854
0.27526	0.14516	0.42360
0.06610	0.16347	0.19921
0.11949	0.21896	0.30273
0.71326	0.51600	0.15939
0.57353	0.49846	0.57482
0.28578	0.52264	0.85758
0.41515	0.49866	0.41891
0.50565	0.49871	0.35817
0.57269	0.46963	0.36372
0.49563	0.49970	0.64464
0.41726	0.47274	0.63432
0.35965	0.44504	0.00124
0.49907	0.55408	0.25455
0.49986	0.55414	0.74810
0.64212	0.44595	0.00517
0.30217	0.50159	0.01221
0.29391	0.52778	0.13710
0.07970	0.02490	0.37887
0.21727	0.02128	0.86484
0.19689	0.99872	0.00456
0.99540	0.00177	0.35657
0.78362	0.02121	0.13547
0.80416	0.99902	0.99618
0.92150	0.02542	0.62204
0.00563	0.00209	0.64401
0.13824	0.05491	0.00790
0.86301	0.05514	0.99374
0.00035	0.94431	0.25062
0.00011	0.94456	0.74948
0.21077	0.97567	0.14181
0.92131	0.99088	0.41994
0.79034	0.97638	0.85744
0.07954	0.99073	0.58112
0.26530	0.40776	0.28576
0.20801	0.35145	0.37642
0.44153	0.34145	0.23977
0.38753	0.28643	0.34443
0.76340	0.25276	0.72072
0.76584	0.90926	0.29116
0.70982	0.85406	0.39028
0.93489	0.83942	0.21671
0.88226	0.78513	0.32733
0.25553	0.75182	0.72131
0.27303	0.59030	0.68482
0.22028	0.64536	0.58105
0.42496	0.66376	0.81828
0.37558	0.71872	0.70645
0.75022	0.75112	0.27918
0.78558	0.09029	0.66849
0.72973	0.14601	0.57269
0.93601	0.16417	0.80576
0.88321	0.21992	0.70274
0.24136	0.25137	0.28033
0.73610	0.40637	0.72635
0.72829	0.52990	0.68323
0.73393	0.56409	0.80138
0.80775	0.54907	0.72326
0.87175	0.55578	0.86901
0.87757	0.60538	0.02997
0.82631	0.57660	0.12329
0.79406	0.59619	-0.01140
0.70466	0.47027	0.12954
0.80400	0.43999	-0.03252
0.93298	0.49684	0.84671
0.89600	0.46931	0.96327
0.98211	0.47951	-0.03373
0.02492	0.53866	0.03843
0.99142	0.56004	-0.09204
0.97554	0.58034	0.05160
0.90906	0.54279	0.20387
0.94855	0.49834	0.17754
0.86120	0.50262	0.15886
0.43567	0.40048	0.12649
0.93806	0.10097	0.88096
0.36690	0.55808	0.79255
0.56455	0.60084	0.88195
0.13092	0.05610	0.78221
0.06638	0.09924	0.87768
0.62556	0.55758	0.78026
0.43426	0.39919	0.88387
0.86944	0.94272	0.78815

0.93323	0.89968	0.11723
0.37477	0.44379	0.22914
0.93314	0.89934	0.88287
0.37871	0.44195	0.77109
0.43424	0.60056	0.12179
0.86963	0.05593	0.21936
0.93479	0.09918	0.12562
0.36695	0.55765	0.21095
0.87278	0.94326	0.21895
0.56343	0.39714	0.11101
0.13094	0.94248	0.21204
0.06739	0.89919	0.11635
0.60922	0.43942	0.23828
0.19246	0.99951	0.11159
0.94100	0.00226	0.34879
0.69005	0.49190	0.16821
0.44010	0.50333	0.34597
0.80658	0.99879	0.10529
0.06348	0.00040	0.34958
0.30553	0.50201	0.11128
0.56099	0.49660	0.35333
0.80876	0.00012	0.88833
0.06001	0.00252	0.65173
0.30586	0.49979	0.89115
0.55206	0.50221	0.65199
0.19427	0.99881	0.89458
0.93748	0.00083	0.65105
0.43143	0.49857	0.65481
0.00107	0.96065	0.18052
0.49893	0.47047	0.13328
0.99848	0.02890	0.13473
0.50171	0.53906	0.18168
0.99966	0.96087	0.81965
0.49843	0.47104	0.86701
0.00257	0.02913	0.86679
0.49683	0.53921	0.82113
0.07378	0.97053	0.99987
0.60029	0.46168	-0.00042
0.90194	0.03886	0.99543
0.42718	0.52918	0.00354
0.92696	0.97062	0.00043
0.39861	0.46133	0.00118
0.09921	0.03870	0.00607
0.57503	0.52981	0.99834
0.56717	0.60096	0.11558
0.11933	0.05754	0.23406
0.06339	0.10051	0.12248
0.63298	0.55779	0.20691
0.56184	0.40082	0.86977
0.12803	0.94341	0.78108
0.06741	0.89973	0.88222
0.62255	0.44443	0.76867
0.43144	0.60090	0.88823
0.88300	0.05823	0.76703
0.69456	0.50093	0.85876
0.80362	0.52284	0.96391
0.77089	0.45968	-0.02022
0.76710	0.50207	0.86068
0.58370	0.49991	0.84118
0.58836	0.49962	0.15729
0.00064	0.06881	0.00127
0.49957	0.43104	0.00010
0.41295	0.49969	0.16263
0.40877	0.50045	0.84494
0.08722	0.99973	0.16151
0.91132	0.99936	0.15646
0.91380	0.00005	0.83915
0.49962	0.56920	0.00171
0.00024	0.93038	0.99980
0.08957	0.99951	0.84427

POSCAR file for gd_p5_prime

POSCAR file from zrtcpb-gd-h2o-c.res: C: 143 F: 1 H: 120 O: 66 P: 1 ZR: 12

```
34.89200000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053
```

143 1 120 66 1 12

Direct

0.79061	0.88165	0.29793
0.64889	0.62438	0.24088
0.23196	0.78363	0.43753
0.20660	0.81595	0.36763
0.15262	0.80982	0.29175
0.12397	0.83983	0.23082
0.23304	0.85267	0.37621

0.26118	0.34899	0.34486
0.11338	0.90865	0.18693
0.14843	0.87672	0.24538
0.38265	0.59134	0.81783
0.20382	0.88291	0.31687
0.71121	0.62017	0.29239
0.39368	0.40981	0.20121
0.72351	0.28184	0.43963
0.69569	0.31422	0.37389
0.64228	0.30860	0.29636
0.61328	0.33925	0.23926
0.72086	0.35111	0.38908
0.60441	0.40842	0.19843
0.63699	0.37608	0.25923
0.69135	0.38189	0.33346
0.34948	0.62357	0.75710
0.88670	0.84268	0.25746
0.35901	0.37763	0.26018
0.29264	0.38021	0.29376
0.74154	0.24870	0.37865
0.24847	0.74996	0.37833
0.25580	0.24910	0.62327
0.74521	0.75116	0.62085
0.25336	0.75142	0.62375
0.75764	0.25217	0.62376
0.75151	0.75084	0.37562
0.24514	0.25104	0.37752
0.20614	0.18434	0.63275
0.29227	0.61844	0.68969
0.76771	0.78414	0.43666
0.22739	0.21789	0.43858
0.19933	0.18547	0.37284
0.14224	0.19091	0.30436
0.11208	0.16035	0.24868
0.22682	0.14897	0.38036
0.10416	0.09153	0.20337
0.13800	0.12375	0.26211
0.19597	0.11816	0.32703
0.23446	0.78430	0.56328
0.79456	0.81660	0.36838
0.20798	0.81684	0.63234
0.14389	0.81317	0.67863
0.11418	0.84314	0.73835
0.24240	0.85085	0.65057
0.11254	0.90969	0.80866
0.23282	0.21694	0.56397
0.14742	0.87777	0.74949
0.21187	0.88153	0.70630
0.76066	0.85100	0.35449
0.73112	0.28345	0.56472
0.14122	0.18709	0.67565
0.70309	0.31610	0.63178
0.63497	0.31576	0.65498
0.60483	0.34641	0.71061
0.88820	0.90955	0.19047
0.74036	0.34776	0.66625
0.73203	0.71767	0.43411
0.60733	0.41107	0.79760
0.64174	0.37881	0.73829
0.70966	0.37951	0.71577
0.85402	0.87759	0.25026
0.94774	0.51817	0.91230
0.96713	0.56215	-0.25704
0.91214	0.58591	-0.07122
0.77548	0.21897	0.56281
0.11177	0.15665	0.73358
0.80395	0.18664	0.62811
0.86000	0.19199	0.69946
0.88975	0.16126	0.75499
0.77706	0.15003	0.61753
0.70720	0.68535	0.36233
0.89737	0.09222	0.79845
0.86431	0.12463	0.73909
0.80736	0.11913	0.67118
0.24146	0.15069	0.65181
0.11215	0.09018	0.80579
0.14604	0.12240	0.74599
0.21114	0.11956	0.70533
0.72830	0.71792	0.55988
0.70086	0.68573	0.62802
0.26944	0.71767	0.56455
0.64575	0.68966	0.30649
0.64528	0.69212	0.70043
0.61518	0.66229	0.76041
0.72683	0.64889	0.62088
0.60491	0.59337	0.80667
0.63950	0.62535	0.74729
0.69580	0.61882	0.67809

0.76506	0.78429	0.56246
0.79039	0.81657	0.63330
0.84584	0.81036	0.70557
0.87528	0.84020	0.76627
0.61726	0.65968	0.24509
0.29405	0.68508	0.63426
0.76342	0.85319	0.62824
0.88622	0.90892	0.81243
0.81860	0.45970	0.79365
0.85034	0.87707	0.75478
0.91960	0.55216	-0.15568
0.85237	0.54051	0.79060
0.81582	0.57125	-0.27703
0.79355	0.88330	0.68696
0.27366	0.28220	0.56218
0.85746	0.81259	0.31732
0.30109	0.31462	0.62858
0.35656	0.30900	0.70117
0.38603	0.33950	0.75832
0.27427	0.35123	0.61853
0.39412	0.40838	0.80244
0.35038	0.69013	0.70516
0.36075	0.37616	0.74283
0.26859	0.28312	0.43674
0.30424	0.38193	0.67398
0.76753	0.21730	0.43779
0.74072	0.65072	0.35016
0.79467	0.18463	0.36958
0.86131	0.18610	0.33557
0.29645	0.31565	0.36892
0.89066	0.15561	0.27765
0.75787	0.15204	0.34298
0.88823	0.09012	0.19670
0.37761	0.65977	0.76649
0.85457	0.12237	0.25720
0.78802	0.12069	0.29024
0.36282	0.31327	0.33356
0.61369	0.59222	0.18334
0.26694	0.71703	0.43884
0.29230	0.68425	0.36982
0.35509	0.68786	0.31797
0.38379	0.65752	0.25859
0.25802	0.64491	0.35721
0.38517	0.59054	0.19321
0.35088	0.62263	0.25268
0.26435	0.64910	0.63032
0.28763	0.61899	0.30137
0.39349	0.34368	0.27745
0.73348	0.44716	0.92024
0.79388	0.34799	0.65007
0.55199	0.34602	0.73228
0.60571	0.29095	0.62847
0.73581	0.59247	0.28795
0.23749	0.90872	0.71766
0.29364	0.85334	0.61962
0.06431	0.84061	0.77576
0.11720	0.78641	0.66539
0.79030	0.64762	0.38798
0.28441	0.41076	0.66553
0.22928	0.35543	0.56631
0.42953	0.33582	0.81506
0.56923	0.66259	0.20128
0.37732	0.28035	0.70948
0.73711	0.24796	0.28126
0.61985	0.71692	0.31412
0.77395	0.91221	0.67970
0.71842	0.85813	0.57677
0.91906	0.83581	0.82176
0.86679	0.78169	0.71064
0.24763	0.74957	0.28058
0.71418	0.58967	0.66957
0.77202	0.64387	0.56959
0.57157	0.66675	0.81673
0.62494	0.72093	0.70648
0.23764	0.09264	0.71603
0.29302	0.14876	0.62222
0.06130	0.15848	0.76869
0.11369	0.21352	0.66147
0.70981	0.41088	0.34612
0.76418	0.35541	0.44559
0.57131	0.33558	0.17886
0.62258	0.27983	0.28416
0.22297	0.91185	0.32628
0.27700	0.85747	0.43063
0.08116	0.83561	0.17278
0.13208	0.78110	0.28417
0.26209	0.59161	0.29518
0.20768	0.64741	0.39250

0.43269	0.65988	0.21717
0.38166	0.71485	0.32683
0.74296	0.75113	0.71857
0.76011	0.09452	0.27408
0.70533	0.15094	0.36696
0.94238	0.15667	0.24869
0.89019	0.21161	0.35607
0.25869	0.24878	0.72088
0.21633	0.08941	0.33390
0.27311	0.14494	0.42883
0.06746	0.16397	0.19479
0.12091	0.21947	0.29791
0.71180	0.52469	0.15127
0.57375	0.50579	0.57241
0.28732	0.52339	0.86271
0.42127	0.50058	0.42935
0.49698	0.49994	0.35928
0.58050	0.47411	0.37188
0.49944	0.49930	0.64241
0.41614	0.47286	0.63312
0.36086	0.44472	0.00147
0.49898	0.55474	0.25472
0.49755	0.55529	0.74919
0.64566	0.45073	-0.00817
0.30282	0.50073	0.00104
0.28955	0.52446	0.14095
0.07843	0.02487	0.37996
0.21742	0.02140	0.86632
0.19658	0.99891	0.00624
0.99436	0.00192	0.35620
0.78299	0.02130	0.13431
0.80388	0.99922	0.99396
0.92205	0.02549	0.62077
0.00616	0.00232	0.64403
0.13790	0.05514	0.00868
0.86272	0.05538	0.99288
-0.00017	0.94452	0.25014
0.00018	0.94478	0.74935
0.21002	0.97583	0.14330
0.92013	0.99050	0.41816
0.79054	0.97645	0.85616
0.08002	0.99028	0.58252
0.26610	0.40692	0.27860
0.20870	0.35069	0.36902
0.44500	0.34196	0.24758
0.39045	0.28713	0.35188
0.76218	0.25293	0.72113
0.76538	0.90904	0.28914
0.71013	0.85361	0.38872
0.93577	0.84004	0.21688
0.88367	0.78553	0.32732
0.25447	0.75183	0.72150
0.27049	0.59000	0.68380
0.21868	0.64524	0.57981
0.42203	0.66311	0.82104
0.37368	0.71824	0.70883
0.75381	0.75087	0.27793
0.78734	0.09035	0.66232
0.73165	0.14604	0.56634
0.93365	0.16477	0.81083
0.88097	0.22058	0.70817
0.24216	0.25139	0.27992
0.73817	0.40498	0.73836
0.79648	0.43111	0.79521
0.81072	0.47166	0.70391
0.87195	0.45705	0.81197
0.86213	0.51634	0.73013
0.84564	0.58196	-0.35226
0.80388	0.59552	-0.21845
0.76912	0.56006	0.68651
0.71852	0.48262	0.08894
0.84033	0.48137	0.07009
0.95166	0.49289	0.85419
0.91641	0.51051	0.98916
0.99772	0.52474	0.94588
0.01688	0.56783	-0.22073
0.97180	0.53847	0.67872
0.95133	0.58773	-0.30630
0.89766	0.61203	-0.11913
0.95957	0.59171	-0.02614
0.87455	0.58013	-0.00211
0.43719	0.40029	0.12476
0.93779	0.10117	0.88063
0.36498	0.55745	0.79292
0.56153	0.60258	0.88419
0.13115	0.05635	0.78313
0.06617	0.09945	0.87756
0.61983	0.55970	0.77605

0.43571	0.39940	0.88244
0.86958	0.94297	0.78732
0.93293	0.90000	0.11621
0.37746	0.44364	0.22922
0.93306	0.89950	0.88199
0.37917	0.44215	0.77134
0.43193	0.59999	0.12347
0.86874	0.05630	0.21815
0.93448	0.09947	0.12562
0.36715	0.55655	0.21647
0.87229	0.94346	0.21787
0.56495	0.39938	0.11522
0.13022	0.94262	0.21266
0.06703	0.89940	0.11616
0.61790	0.44211	0.23196
0.19187	0.99969	0.11293
0.93989	0.00247	0.34807
0.69622	0.49838	0.15576
0.44268	0.50219	0.35129
0.80621	0.99900	0.10398
0.06221	0.00050	0.34970
0.30697	0.50036	0.11082
0.56469	0.49939	0.34866
0.80866	0.00027	0.88705
0.06053	0.00276	0.65196
0.30572	0.49968	0.89376
0.55330	0.50067	0.64978
0.19417	0.99901	0.89599
0.93806	0.00103	0.65072
0.43074	0.49868	0.65294
0.00046	0.96086	0.18008
0.49959	0.47103	0.13281
0.99780	0.02913	0.13447
0.50010	0.53925	0.18270
0.99979	0.96110	0.81945
0.49995	0.47155	0.86740
0.00263	0.02935	0.86677
0.49562	0.53975	0.82102
0.07356	0.97077	0.00007
0.60222	0.46323	0.00060
0.90165	0.03912	0.99462
0.42632	0.52903	0.00354
0.92677	0.97088	-0.00032
0.39964	0.46118	0.00056
0.09891	0.03893	0.00661
0.57326	0.53080	-0.00058
0.56491	0.60141	0.11835
0.11831	0.05771	0.23503
0.06305	0.10066	0.12249
0.63282	0.55833	0.20455
0.56387	0.40104	0.87385
0.12830	0.94363	0.78152
0.06744	0.89999	0.88200
0.62294	0.44487	0.77049
0.42822	0.60056	0.89009
0.88316	0.05849	0.76606
0.70678	0.50715	0.87157
0.81039	0.52818	0.88744
0.79352	0.48740	1.05957
0.77224	0.48781	0.90392
0.58647	0.50178	0.84085
0.58599	0.50052	0.15919
0.00033	0.06911	0.00114
0.50085	0.43136	-0.00129
0.41151	0.49985	0.16005
0.41061	0.50010	0.84300
0.08654	0.99996	0.16197
0.91064	0.99963	0.15557
0.91393	0.00035	0.83840
0.49805	0.56980	0.00197
0.00006	0.93063	0.99932
0.08972	0.99977	0.84476

POSCAR file for gd_product

POSCAR file from zrtcpb-gd-h2o-c.res: C: 143 F: 1 H: 120 O: 66 P: 1 ZR: 12

```
34.8920000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053
```

143 1 120 66 1 12

Direct

0.79112	0.88254	0.29865
0.64826	0.62573	0.24078
0.23155	0.78334	0.43758
0.20637	0.81573	0.36763
0.15295	0.80970	0.29037

0.12447	0.83980	0.22956
0.23239	0.85253	0.37763
0.26220	0.34843	0.34144
0.11355	0.90876	0.18715
0.14847	0.87674	0.24554
0.38613	0.59145	0.81511
0.20332	0.88285	0.31844
0.71291	0.62294	0.28303
0.39408	0.40966	0.19819
0.72143	0.28086	0.43755
0.69441	0.31330	0.37122
0.64161	0.30784	0.29234
0.61296	0.33864	0.23567
0.71974	0.35009	0.38757
0.60379	0.40788	0.19819
0.63639	0.37540	0.25775
0.69049	0.38105	0.33263
0.35164	0.62356	0.75602
0.88731	0.84342	0.25953
0.36006	0.37748	0.25844
0.29333	0.37966	0.28976
0.74107	0.24801	0.37688
0.24850	0.74970	0.37862
0.25596	0.24948	0.62325
0.74204	0.75233	0.62098
0.25263	0.75114	0.62400
0.75370	0.25122	0.62294
0.75126	0.75220	0.37585
0.24611	0.25119	0.37733
0.20553	0.18488	0.63255
0.29461	0.61809	0.68827
0.76742	0.78529	0.43795
0.22750	0.21823	0.43857
0.19942	0.18578	0.37301
0.14324	0.19130	0.30214
0.11311	0.16071	0.24654
0.22603	0.14912	0.38302
0.10434	0.09175	0.20352
0.13814	0.12400	0.26229
0.19522	0.11831	0.32965
0.23370	0.78398	0.56333
0.79498	0.81767	0.37050
0.20728	0.81662	0.63213
0.14262	0.81348	0.67615
0.11328	0.84358	0.73582
0.24251	0.85026	0.65223
0.11295	0.90985	0.80858
0.23257	0.21742	0.56399
0.14743	0.87784	0.74905
0.21236	0.88109	0.70781
0.76111	0.85205	0.35591
0.72688	0.28223	0.56300
0.13965	0.18695	0.67080
0.69801	0.31496	0.62819
0.62959	0.31547	0.64852
0.59963	0.34659	0.70217
0.88855	0.91005	0.19034
0.73578	0.34642	0.66228
0.73020	0.71924	0.43336
0.60573	0.41133	0.79235
0.63726	0.37869	0.72991
0.70516	0.37856	0.70870
0.85452	0.87827	0.25119
0.95537	0.51479	0.92087
0.96563	0.56520	0.76788
0.91063	0.57953	0.96253
0.77369	0.21840	0.56216
0.11032	0.15644	0.72859
0.80265	0.18624	0.62761
0.85753	0.19205	0.70149
0.88786	0.16149	0.75696
0.77745	0.14933	0.61441
0.70571	0.68710	0.36043
0.89775	0.09237	0.79785
0.86413	0.12461	0.73862
0.80827	0.11863	0.66818
0.24179	0.15182	0.65554
0.11226	0.09050	0.80549
0.14575	0.12276	0.74521
0.21167	0.12056	0.70869
0.72475	0.71934	0.55895
0.69731	0.68689	0.62552
0.26924	0.71743	0.56505
0.64197	0.69016	0.31307
0.64556	0.69296	0.70703
0.61734	0.66273	0.76808
0.72035	0.64976	0.60820
0.60894	0.59333	0.81119

0.63945	0.62567	0.74670
0.69058	0.61940	0.66560
0.76345	0.78529	0.56355
0.78910	0.81733	0.63496
0.84439	0.81083	0.70736
0.87440	0.84057	0.76766
0.61387	0.65999	0.25214
0.29428	0.68493	0.63486
0.76271	0.85410	0.62955
0.88659	0.90930	0.81251
0.81325	0.45433	0.79739
0.85011	0.87757	0.75558
0.92115	0.54938	0.86641
0.85444	0.53661	0.81197
0.81450	0.56744	0.75217
0.79340	0.88408	0.68787
0.27460	0.28242	0.56201
0.85801	0.81350	0.32008
0.30212	0.31489	0.62810
0.35682	0.30924	0.70254
0.38656	0.33979	0.75892
0.27624	0.35166	0.61574
0.39645	0.40884	0.79918
0.35016	0.69034	0.70665
0.36243	0.37660	0.74072
0.26998	0.28318	0.43650
0.30656	0.38242	0.67027
0.76720	0.21686	0.43691
0.74198	0.65385	0.33962
0.79518	0.18438	0.36932
0.86261	0.18522	0.34072
0.29814	0.31559	0.36852
0.89197	0.15481	0.28252
0.75762	0.15256	0.33763
0.88850	0.09014	0.19603
0.37832	0.66007	0.76712
0.85494	0.12229	0.25694
0.78767	0.12120	0.28493
0.36496	0.31365	0.33593
0.61300	0.59323	0.18572
0.26710	0.71680	0.43929
0.29273	0.68405	0.37027
0.35580	0.68757	0.31945
0.38438	0.65733	0.25924
0.25823	0.64985	0.35610
0.38526	0.59054	0.19112
0.35116	0.62259	0.25148
0.26575	0.64865	0.62980
0.28772	0.61902	0.29951
0.39536	0.34401	0.27900
0.65945	0.42295	0.95763
0.78947	0.34608	0.64820
0.54659	0.34659	0.72235
0.59991	0.29088	0.62155
0.74003	0.59622	0.27220
0.23868	0.90800	0.72063
0.29409	0.85234	0.62277
0.06298	0.84144	0.77160
0.11524	0.78703	0.66134
0.79315	0.65195	0.37099
0.28749	0.41135	0.65966
0.23181	0.35596	0.56210
0.42944	0.33603	0.81712
0.56408	0.66189	0.21457
0.37682	0.28048	0.71296
0.73813	0.24740	0.27931
0.61411	0.71650	0.32698
0.77440	0.91312	0.68026
0.71779	0.85922	0.57800
0.91811	0.83601	0.82320
0.86482	0.78204	0.71274
0.24794	0.74930	0.28086
0.70671	0.59025	0.64942
0.76238	0.64473	0.54904
0.57717	0.66704	0.83227
0.62686	0.72190	0.72023
0.23901	0.09406	0.72251
0.29393	0.15042	0.62902
0.05915	0.15780	0.76046
0.11134	0.21290	0.65333
0.70900	0.40998	0.34598
0.76293	0.35415	0.44456
0.57149	0.33521	0.17408
0.62212	0.27909	0.27885
0.22214	0.91182	0.32918
0.27587	0.85735	0.43329
0.08215	0.83560	0.17035
0.13266	0.78096	0.28148

0.26186	0.59177	0.29210
0.20772	0.64739	0.39069
0.43345	0.65972	0.21846
0.38266	0.71442	0.32962
0.73925	0.75214	0.71865
0.75913	0.09555	0.26464
0.70455	0.15210	0.35784
0.94432	0.15536	0.25734
0.89198	0.21018	0.36531
0.25846	0.24924	0.72090
0.21490	0.08946	0.33852
0.27156	0.14495	0.43370
0.06923	0.16440	0.19078
0.12255	0.21996	0.29372
0.70081	0.52800	0.19753
0.58144	0.50132	0.57588
0.29189	0.52470	0.85847
0.41944	0.50245	0.42802
0.49499	0.49942	0.35956
0.57857	0.47319	0.37170
0.50638	0.50152	0.64344
0.42362	0.47340	0.62999
0.36267	0.44487	0.99659
0.49859	0.55435	0.25528
0.50347	0.55549	0.75010
0.64634	0.44843	0.99266
0.30463	0.50091	0.98999
0.28870	0.52342	0.13824
0.07838	0.02503	0.38029
0.21801	0.02166	0.86663
0.19697	0.99914	0.00743
0.99420	0.00217	0.35598
0.78296	0.02137	0.13295
0.80424	0.99952	0.99294
0.92309	0.02559	0.61983
0.00698	0.00245	0.64384
0.13830	0.05544	0.00882
0.86312	0.05563	0.99192
0.00015	0.94478	0.25001
0.00087	0.94500	0.74914
0.21009	0.97583	0.14349
0.92004	0.99043	0.41708
0.79093	0.97694	0.85443
0.08098	0.99026	0.58301
0.26626	0.40605	0.27230
0.20946	0.34978	0.36384
0.44723	0.34257	0.25100
0.39314	0.28790	0.35682
0.75696	0.25190	0.72048
0.76597	0.90992	0.28900
0.71050	0.85472	0.38979
0.93643	0.84071	0.21916
0.88416	0.78644	0.33082
0.25341	0.75158	0.72176
0.27371	0.58947	0.68108
0.22032	0.64444	0.57888
0.42249	0.66376	0.82209
0.37250	0.71868	0.71158
0.75466	0.75233	0.27827
0.78958	0.08963	0.65734
0.73300	0.14492	0.56087
0.93089	0.16532	0.81474
0.87721	0.22087	0.71227
0.24352	0.25146	0.27969
0.73340	0.40395	0.73151
0.80648	0.42379	0.81212
0.79677	0.46182	0.70667
0.86593	0.46159	0.80594
0.86722	0.51478	0.74401
0.84098	0.58039	0.67622
0.80077	0.59002	0.81579
0.76810	0.55477	0.71973
0.72895	0.48882	0.13559
0.79358	0.44064	0.02842
0.96422	0.49256	0.85296
0.92572	0.50207	0.99330
0.00388	0.52282	0.95821
0.01514	0.57172	0.80392
0.97215	0.54443	0.69508
0.94560	0.59162	0.72929
0.89086	0.60617	0.92492
0.95799	0.58628	0.00659
0.87561	0.56946	0.03127
0.43754	0.40015	0.12165
0.93794	0.10145	0.88026
0.36942	0.55746	0.78918
0.56501	0.60223	0.88791
0.13161	0.05671	0.78327

0.06627	0.09978	0.87726
0.62747	0.55973	0.78625
0.43766	0.39980	0.87969
0.87024	0.94335	0.78690
0.93309	0.90034	0.11596
0.37727	0.44342	0.22531
0.93345	0.89978	0.88185
0.38264	0.44266	0.76693
0.43179	0.59994	0.12090
0.86878	0.05634	0.21693
0.93485	0.09960	0.12534
0.36726	0.55656	0.21438
0.87255	0.94396	0.21732
0.56523	0.39916	0.11333
0.13044	0.94272	0.21300
0.06722	0.89956	0.11624
0.61611	0.44140	0.23430
0.19226	0.99982	0.11339
0.93980	0.00280	0.34769
0.69435	0.50025	0.19044
0.44093	0.50158	0.34997
0.80637	0.99915	0.10248
0.06219	0.00069	0.34965
0.30819	0.50007	0.10675
0.56290	0.49868	0.35037
0.80922	0.00068	0.88559
0.06141	0.00294	0.65202
0.30837	0.50035	0.88834
0.55954	0.50510	0.65263
0.19463	0.99931	0.89627
0.93899	0.00116	0.65016
0.43690	0.49931	0.65144
0.00071	0.96111	0.17991
0.49943	0.47070	0.13310
0.99816	0.02938	0.13423
0.49996	0.53900	0.18280
0.00045	0.96132	0.81927
0.50411	0.47231	0.86810
0.00326	0.02960	0.86647
0.50080	0.53995	0.82192
0.07403	0.97101	0.00019
0.60499	0.46334	0.00331
0.90206	0.03938	0.99384
0.42812	0.52911	0.00137
0.92720	0.97113	0.99909
0.40135	0.46139	0.99673
0.09933	0.03919	0.00675
0.57573	0.53060	0.00291
0.56407	0.60198	0.12085
0.11843	0.05794	0.23538
0.06336	0.10088	0.12242
0.63161	0.55942	0.20938
0.56494	0.40145	0.87320
0.12899	0.94376	0.78171
0.06783	0.90019	0.88199
0.62142	0.44508	0.76474
0.43174	0.60073	0.88713
0.88409	0.05861	0.76495
0.70021	0.50093	0.86439
0.81611	0.51989	0.90464
0.75871	0.46029	0.03559
0.76428	0.48127	0.90344
0.59264	0.50182	0.84497
0.58500	0.49985	0.16201
0.00072	0.06934	0.00074
0.50208	0.43156	0.99767
0.41085	0.49990	0.15773
0.41514	0.50032	0.84001
0.08672	0.00021	0.16214
0.91089	0.99991	0.15477
0.91457	0.00060	0.83771
0.49984	0.56970	0.00225
0.00054	0.93090	0.99911
0.09042	-0.00000	0.84484

POSCAR files for ipa solvent

POSCAR file for gb_solvent

POSCAR file from zrtepb-gb-ipa-c.res: C: 143 F: 1 H: 120 O: 66 P: 1 ZR: 12
34.8920000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053
143 1 120 66 1 12

Direct

0.79023	0.88207	0.30393
0.23310	0.21668	0.56282
0.73274	0.71652	0.43658
0.70744	0.68401	0.36688
0.64843	0.68909	0.30333
0.61972	0.65899	0.24289
0.85218	0.81132	0.30654
0.73821	0.64833	0.36384
0.61426	0.59095	0.18651
0.64889	0.62299	0.24586
0.70878	0.61791	0.30542
0.88141	0.84152	0.24703
0.20723	0.18404	0.63189
0.23333	0.78352	0.56310
0.20768	0.81611	0.63258
0.14734	0.81133	0.69266
0.11810	0.84151	0.75223
0.23920	0.85152	0.63824
0.11299	0.90939	0.80970
0.14801	0.87731	0.75118
0.20926	0.88210	0.69541
0.76032	0.85148	0.36115
0.73406	0.28376	0.56356
0.14644	0.18870	0.69039
0.70706	0.31636	0.63162
0.64542	0.31144	0.68693
0.61409	0.34168	0.74261
0.88657	0.90941	0.18987
0.73765	0.35199	0.63765
0.60723	0.40976	0.79857
0.64306	0.37773	0.74138
0.70544	0.38269	0.69015
0.85151	0.87731	0.24822
0.77032	0.21742	0.56295
0.11678	0.15842	0.74883
0.79758	0.18507	0.63030
0.85805	0.19018	0.68918
0.88899	0.15982	0.74442
0.76743	0.14920	0.63316
0.89552	0.09146	0.79720
0.86040	0.12367	0.74037
0.79895	0.11854	0.68626
0.23871	0.14865	0.63728
0.11203	0.09045	0.80654
0.14659	0.12261	0.74747
0.20811	0.11795	0.69265
0.73325	0.71640	0.56275
0.70803	0.68386	0.63287
0.26725	0.71658	0.56322
0.64846	0.68875	0.69534
0.61971	0.65861	0.75586
0.73945	0.64842	0.63740
0.61423	0.59063	0.81187
0.64936	0.62273	0.75363
0.70995	0.61791	0.69561
0.76700	0.78333	0.56257
0.79259	0.81569	0.63248
0.85114	0.81022	0.69713
0.88032	0.84017	0.75765
0.29257	0.68415	0.63323
0.76254	0.85157	0.63485
0.88700	0.90840	0.81225
0.82264	0.53180	0.69660
0.85191	0.87636	0.75388
0.89930	0.51162	1.09541
0.85735	0.54778	1.07897
0.81141	0.55166	1.18796
0.79228	0.88178	0.69372
0.75606	0.41591	1.02650
0.80466	0.42594	0.92541
0.26917	0.28300	0.56212
0.79518	0.41524	1.14423
0.29653	0.31519	0.62980
0.35632	0.30969	0.69058
0.38707	0.33983	0.74723
0.26684	0.35119	0.63174
0.39366	0.40810	0.80099
0.35135	0.68938	0.69738
0.35886	0.37608	0.74273
0.26581	0.28375	0.43617
0.29811	0.38161	0.68649
0.76685	0.21667	0.43701
0.79265	0.18401	0.36792
0.85326	0.18863	0.30882
0.29271	0.31635	0.36795
0.88285	0.15838	0.25040
0.76125	0.14858	0.36304

0.88766	0.09037	0.19317
0.38010	0.65938	0.75820
0.85314	0.12254	0.25229
0.79176	0.11787	0.30764
0.35432	0.31143	0.31255
0.26672	0.71642	0.43704
0.29196	0.68387	0.36703
0.35159	0.68871	0.30472
0.38032	0.65855	0.24435
0.26045	0.64844	0.36242
0.38583	0.59059	0.18854
0.35061	0.62269	0.24657
0.26202	0.64840	0.63622
0.28994	0.61790	0.30437
0.38558	0.34167	0.25667
0.23276	0.78331	0.43693
0.20716	0.81567	0.36700
0.14856	0.81020	0.30246
0.11932	0.84014	0.24206
0.23719	0.85156	0.36465
0.26209	0.35197	0.36189
0.11275	0.90837	0.18732
0.14776	0.87634	0.24579
0.38594	0.59128	0.81437
0.20739	0.88176	0.30588
0.39244	0.40973	0.20079
0.73078	0.28298	0.43761
0.70338	0.31514	0.36988
0.64358	0.30960	0.30913
0.61282	0.33972	0.25238
0.73308	0.35114	0.36775
0.60619	0.40795	0.19841
0.64102	0.37597	0.25673
0.70180	0.38153	0.31287
0.35122	0.62330	0.75506
0.35660	0.37770	0.25792
0.29425	0.38266	0.30925
0.74703	0.24946	0.37739
0.24952	0.74978	0.37737
0.25291	0.24949	0.62240
0.75035	0.74980	0.62226
0.25060	0.75016	0.62274
0.75402	0.25097	0.62317
0.74918	0.75009	0.37689
0.24591	0.25093	0.37661
0.29148	0.61809	0.69506
0.76635	0.78350	0.43640
0.22965	0.21739	0.43689
0.20237	0.18501	0.36965
0.14198	0.19018	0.31054
0.11095	0.15984	0.25531
0.23236	0.14910	0.36700
0.10427	0.09146	0.20260
0.13940	0.12365	0.25951
0.20075	0.11846	0.31392
0.79190	0.81610	0.36682
0.83520	0.46561	0.86657
0.78723	0.35578	0.60004
0.56611	0.33818	0.78664
0.62169	0.28345	0.68325
0.73172	0.58972	0.30603
0.23290	0.91011	0.69788
0.28799	0.85505	0.59726
0.07090	0.83826	0.79914
0.12274	0.78358	0.68948
0.78596	0.64449	0.40780
0.27615	0.41006	0.68694
0.21851	0.35509	0.58995
0.43397	0.33623	0.79443
0.57338	0.66237	0.19380
0.37930	0.28147	0.68941
0.74491	0.24918	0.27971
0.62435	0.71700	0.30477
0.76994	0.91013	0.69279
0.71515	0.85574	0.58990
0.92638	0.83644	0.80733
0.87462	0.78214	0.69626
0.24942	0.74974	0.27960
0.73341	0.58986	0.69578
0.78766	0.64477	0.59442
0.57297	0.66189	0.80420
0.62397	0.71652	0.69302
0.23149	0.08987	0.69368
0.28769	0.14517	0.59696
0.06939	0.16160	0.79511
0.12196	0.21648	0.68721
0.72372	0.40999	0.31232
0.78144	0.35508	0.40945

0.56590	0.33608	0.20525
0.62065	0.28136	0.31041
0.22971	0.91012	0.30681
0.28461	0.85573	0.40952
0.07322	0.83642	0.19249
0.12509	0.78212	0.30339
0.26641	0.58986	0.30406
0.21217	0.64481	0.40519
0.42710	0.66178	0.19610
0.37612	0.71648	0.30694
0.75050	0.74979	0.72004
0.76843	0.08977	0.30699
0.71239	0.14507	0.40375
0.93009	0.16159	0.20365
0.87762	0.21650	0.31148
0.25505	0.24921	0.72007
0.22309	0.09011	0.31330
0.28119	0.14539	0.40713
0.06361	0.16331	0.20948
0.11876	0.21833	0.31199
0.71198	0.52243	0.14130
0.57695	0.50072	0.57183
0.28785	0.52246	0.85821
0.42273	0.50092	0.42801
0.49912	0.49963	0.35815
0.57988	0.47200	0.36875
0.50083	0.49998	0.64177
0.41950	0.47251	0.63077
0.36036	0.44491	0.00088
0.49917	0.55409	0.25331
0.50082	0.55432	0.74713
0.63943	0.44482	0.99861
0.30399	0.50070	0.00502
0.29152	0.52506	0.13751
0.07884	0.02413	0.38184
0.21744	0.02136	0.86541
0.19628	0.99895	0.00977
0.99307	0.00188	0.35629
0.78220	0.02124	0.13407
0.80341	0.99892	0.98954
0.92117	0.02421	0.61778
0.00677	0.00191	0.64336
0.13745	0.05516	0.00783
0.86230	0.05512	0.99173
0.99909	0.94455	0.25013
0.00059	0.94455	0.74942
0.20825	0.97508	0.14262
0.91977	0.98882	0.41612
0.79170	0.97495	0.85686
0.08011	0.98879	0.58363
0.27144	0.41090	0.30691
0.21253	0.35573	0.39962
0.43353	0.33820	0.21252
0.37811	0.28346	0.31630
0.75604	0.25124	0.72085
0.76654	0.91005	0.30136
0.71151	0.85499	0.40208
0.92857	0.83828	0.20002
0.87676	0.78355	0.30971
0.25068	0.75022	0.72051
0.26871	0.58984	0.69443
0.21445	0.64443	0.59169
0.42622	0.66292	0.80782
0.37526	0.71734	0.69611
0.74899	0.75014	0.27911
0.77648	0.09021	0.68689
0.71854	0.14558	0.59325
0.93637	0.16324	0.79019
0.88138	0.21830	0.68759
0.24395	0.25120	0.27893
0.72820	0.41094	0.69250
0.80989	0.51106	0.62194
0.79618	0.55995	0.68027
0.87835	0.53676	0.69783
0.93367	0.50793	1.01567
0.86509	0.48599	1.10254
0.92983	0.51420	1.18045
0.89093	0.57367	1.07149
0.84249	0.55318	1.27244
0.77750	0.52585	1.19244
0.78047	0.57858	1.17972
0.73644	0.38721	1.00923
0.71508	0.46859	1.06524
0.78163	0.42653	0.85164
0.82369	0.45016	0.94038
0.83863	0.40732	0.92184
0.83047	0.39752	1.13800
0.81257	0.43983	1.15972

0.76663	0.40796	1.20760
0.43564	0.40003	0.12380
0.93784	0.10069	0.87574
0.36825	0.55739	0.79042
0.56731	0.59990	0.88155
0.13011	0.05659	0.78233
0.06650	0.09976	0.87938
0.63163	0.55663	0.78722
0.43527	0.39882	0.88057
0.86949	0.94233	0.78778
0.93123	0.89993	0.11534
0.37785	0.44367	0.23008
0.93392	0.89910	0.88162
0.37964	0.44190	0.76927
0.43290	0.59987	0.11917
0.86956	0.05651	0.21741
0.93316	0.09968	0.12025
0.36835	0.55659	0.21301
0.87149	0.94329	0.21906
0.56448	0.39869	0.11900
0.13032	0.94229	0.21157
0.06575	0.89906	0.11808
0.62030	0.44176	0.23008
0.19179	0.99950	0.11330
0.93897	0.00229	0.34824
0.69226	0.49929	0.10882
0.44430	0.50264	0.35014
0.80604	0.99913	0.10385
0.06181	0.00026	0.34923
0.30759	0.50048	0.10872
0.56583	0.49787	0.34844
0.80792	0.99945	0.88606
0.06090	0.00236	0.65132
0.30769	0.49940	0.89092
0.55549	0.50290	0.64970
0.19370	0.99920	0.89554
0.93811	0.00033	0.65046
0.43376	0.49830	0.65162
0.99984	0.96083	0.17994
0.50002	0.47036	0.13265
0.99728	0.02918	0.13391
0.50121	0.53879	0.18095
0.99992	0.96081	0.81966
0.49981	0.47046	0.86722
0.00249	0.02921	0.86585
0.49879	0.53894	0.81931
0.07351	0.97067	0.00022
0.60001	0.46076	0.99974
0.90131	0.03893	0.99313
0.42757	0.52877	0.00149
0.92630	0.97069	0.99921
0.39980	0.46084	0.99995
0.09844	0.03895	0.00659
0.57233	0.52871	0.99872
0.56769	0.60033	0.11636
0.11877	0.05767	0.23400
0.06198	0.10069	0.12402
0.63190	0.55705	0.21050
0.56411	0.40007	0.87572
0.12810	0.94327	0.78066
0.06835	0.89988	0.88424
0.62179	0.44371	0.76923
0.43262	0.60063	0.88438
0.88098	0.05768	0.76580
0.70557	0.50321	0.84017
0.81659	0.54331	0.96699
0.70299	0.44176	1.03054
0.79540	0.51137	0.84272
0.90980	0.99962	0.15469
0.91423	0.00011	0.83768
0.41135	0.49982	0.84178
0.41349	0.49959	0.15904
0.49988	0.43046	0.99978
0.99988	0.06900	0.99985
0.58852	0.49963	0.15818
0.08555	0.00010	0.16194
0.50003	0.56898	0.00024
0.08995	0.99965	0.84490
0.58639	0.49964	0.84093
0.99989	0.93065	0.99977

POSCAR file for gb_p5

POSCAR file from zrtcpb-gb-ipa-c.res: C: 143 F: 1 H: 120 O: 66 P: 1 ZR: 12
34.89200000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398

0.0004256087542374 0.0000053656439079 0.3214078049098053
143 1 120 66 1 12

Direct

0.79232 0.88298 0.30252
0.23260 0.21733 0.56319
0.73117 0.71851 0.43343
0.70696 0.68608 0.36158
0.64600 0.69007 0.30381
0.61807 0.65976 0.24314
0.85501 0.81246 0.31266
0.74048 0.65137 0.35210
0.61579 0.59194 0.18331
0.64954 0.62439 0.24234
0.71118 0.62038 0.29641
0.88497 0.84233 0.25293
0.20599 0.18481 0.63217
0.23450 0.78394 0.56318
0.20830 0.81658 0.63200
0.14595 0.81225 0.68504
0.11631 0.84233 0.74449
0.24116 0.85139 0.64328
0.11282 0.90962 0.80770
0.14778 0.87762 0.74898
0.21064 0.88202 0.69929
0.76169 0.85265 0.35956
0.73106 0.28284 0.56310
0.14324 0.18856 0.68405
0.70300 0.31566 0.62928
0.63525 0.31465 0.65556
0.60445 0.34555 0.70850
0.88923 0.90970 0.19061
0.73928 0.34824 0.65803
0.60558 0.41112 0.78883
0.64014 0.37886 0.72987
0.70764 0.38021 0.70399
0.85438 0.87792 0.25021
0.77437 0.21816 0.56230
0.11378 0.15805 0.74169
0.80317 0.18604 0.62803
0.86216 0.19113 0.69134
0.89220 0.16049 0.74676
0.77380 0.14996 0.62524
0.89734 0.09195 0.79810
0.86408 0.12428 0.73849
0.80436 0.11910 0.67862
0.23926 0.15010 0.64252
0.11175 0.09053 0.80458
0.14571 0.12287 0.74541
0.20884 0.11908 0.69636
0.72782 0.71855 0.55939
0.70121 0.68609 0.62725
0.26950 0.71725 0.56492
0.64650 0.69187 0.70236
0.61748 0.66166 0.76228
0.72679 0.64926 0.61630
0.60884 0.59243 0.80694
0.64148 0.62478 0.74554
0.69599 0.61880 0.67164
0.76405 0.78502 0.56242
0.78989 0.81715 0.63341
0.84756 0.81108 0.69986
0.87738 0.84077 0.76077
0.29466 0.68492 0.63530
0.76133 0.85339 0.63373
0.88656 0.90908 0.81272
0.79937 0.53986 0.74966
0.85062 0.87732 0.75470
0.90395 0.51392 0.03666
0.84789 0.54175 0.01907
0.83007 0.56345 0.13065
0.79193 0.88339 0.69228
0.77967 0.44105 -0.00527
0.81193 0.41858 0.89522
0.27294 0.28277 0.56070
0.82845 0.45270 0.09069
0.30042 0.31519 0.62728
0.35809 0.30987 0.69438
0.38766 0.334031 0.75162
0.27187 0.35148 0.62281
0.39409 0.40882 0.80147
0.35216 0.69020 0.70303
0.36055 0.37672 0.74145
0.26926 0.28322 0.43496
0.30208 0.38219 0.67789
0.76639 0.21624 0.43734
0.79325 0.18368 0.36874
0.85717 0.18728 0.32167
0.29724 0.31549 0.36642

0.88709	0.15702	0.26364
0.75929	0.14937	0.35362
0.88899	0.09003	0.19580
0.38034	0.66010	0.76431
0.85438	0.12215	0.25521
0.79019	0.11850	0.29974
0.36107	0.31134	0.31934
0.26760	0.71658	0.43896
0.29343	0.68398	0.36966
0.35439	0.68863	0.31167
0.38357	0.65857	0.25151
0.26135	0.64881	0.36180
0.38803	0.59087	0.19184
0.35302	0.62294	0.25028
0.26461	0.64901	0.63536
0.29137	0.61829	0.30454
0.39230	0.34162	0.26343
0.23252	0.78323	0.43721
0.20710	0.81552	0.36706
0.15034	0.80991	0.29754
0.12169	0.83998	0.23685
0.23598	0.85173	0.36951
0.26468	0.35028	0.35282
0.11433	0.90849	0.18591
0.14893	0.87642	0.24510
0.38558	0.59176	0.81871
0.20681	0.88203	0.31034
0.39637	0.40918	0.20045
0.72308	0.28088	0.43804
0.69456	0.31278	0.37196
0.64253	0.30647	0.29170
0.61271	0.33679	0.23434
0.71732	0.35001	0.39036
0.60254	0.40620	0.19563
0.63376	0.37387	0.25848
0.68619	0.38042	0.33671
0.35189	0.62392	0.75839
0.36110	0.37695	0.25760
0.29690	0.38117	0.30154
0.74076	0.24760	0.37771
0.24919	0.74952	0.37842
0.25468	0.24977	0.62204
0.74450	0.75180	0.62058
0.25304	0.75101	0.62368
0.75714	0.25156	0.62265
0.74999	0.75184	0.37528
0.24689	0.25082	0.37613
0.29331	0.61864	0.69493
0.76638	0.78507	0.43660
0.22864	0.21783	0.43752
0.20069	0.18540	0.37146
0.14107	0.19043	0.30994
0.11080	0.15991	0.25420
0.23044	0.14942	0.37186
0.10526	0.09151	0.20190
0.13918	0.12374	0.26069
0.19953	0.11861	0.31852
0.79354	0.81744	0.36850
0.82173	0.48043	0.80159
0.79260	0.34896	0.64002
0.55198	0.34464	0.73278
0.60681	0.28911	0.63320
0.73516	0.59248	0.29535
0.23508	0.90973	0.70571
0.29124	0.85452	0.60721
0.06775	0.83933	0.78683
0.12041	0.78489	0.67707
0.78997	0.64860	0.39047
0.28089	0.41079	0.67310
0.22522	0.35541	0.57532
0.43267	0.33679	0.80454
0.57061	0.66245	0.19724
0.38034	0.28149	0.69834
0.73621	0.24663	0.28037
0.62012	0.71736	0.30922
0.77111	0.91210	0.68919
0.71476	0.85814	0.58670
0.92271	0.83653	0.81223
0.86980	0.78268	0.70034
0.24850	0.74910	0.28062
0.71269	0.58962	0.65694
0.77123	0.64453	0.56293
0.57493	0.66576	0.82142
0.62600	0.72058	0.71079
0.23361	0.09143	0.70069
0.28944	0.14736	0.60660
0.06497	0.16057	0.78346
0.11726	0.21579	0.67676

0.70258	0.40971	0.35115
0.76022	0.35477	0.44735
0.57245	0.33268	0.17054
0.62474	0.27739	0.27765
0.22806	0.91062	0.31499
0.28194	0.85607	0.41879
0.07689	0.83618	0.18367
0.12778	0.78160	0.29488
0.26759	0.59034	0.30198
0.21228	0.64534	0.40174
0.43123	0.66175	0.20611
0.37932	0.71623	0.31669
0.74282	0.75167	0.71834
0.76496	0.09107	0.29208
0.70844	0.14671	0.38643
0.93676	0.15948	0.22532
0.88357	0.21425	0.33266
0.25693	0.24968	0.71972
0.22158	0.09019	0.32015
0.27855	0.14577	0.41471
0.06429	0.16322	0.20561
0.11800	0.21861	0.30910
0.71642	0.51694	0.15677
0.57559	0.49691	0.57760
0.28636	0.52211	0.86371
0.42011	0.49825	0.42013
0.51093	0.49816	0.35733
0.57826	0.46942	0.36005
0.49449	0.50065	0.64446
0.42036	0.47257	0.63541
0.36274	0.44470	0.00239
0.50220	0.55357	0.25503
0.50018	0.55460	0.74754
0.64662	0.44776	0.99442
0.30501	0.50072	0.01647
0.29611	0.52595	0.14384
0.08099	0.02482	0.37785
0.21723	0.02195	0.86286
0.19731	0.99908	0.00288
0.99646	0.00192	0.35554
0.78423	0.02140	0.13532
0.80458	0.99919	0.99586
0.92211	0.02549	0.62067
0.00578	0.00219	0.64315
0.13856	0.05523	0.00625
0.86320	0.05525	0.99305
0.00121	0.94457	0.24961
0.00047	0.94477	0.74874
0.21123	0.97572	0.13918
0.92249	0.99079	0.41892
0.79044	0.97668	0.85730
0.08003	0.99062	0.58068
0.27285	0.40898	0.29455
0.21370	0.35329	0.38465
0.44187	0.33869	0.22490
0.38642	0.28399	0.32895
0.76209	0.25251	0.71993
0.76882	0.91097	0.29715
0.71224	0.85617	0.39781
0.93303	0.83903	0.20898
0.87968	0.78481	0.31931
0.25384	0.75145	0.72145
0.27113	0.59026	0.69229
0.21790	0.64502	0.58805
0.42566	0.66370	0.81629
0.37554	0.71831	0.70416
0.75194	0.75206	0.27754
0.78252	0.09063	0.67574
0.72611	0.14640	0.58088
0.93833	0.16373	0.79656
0.88501	0.21937	0.69377
0.24469	0.25085	0.27848
0.73507	0.40643	0.72198
0.78257	0.53024	0.66126
0.77856	0.56823	0.76763
0.85379	0.54091	0.75115
0.91498	0.49769	-0.04502
0.89152	0.49360	0.10825
0.94904	0.52946	0.06273
0.85972	0.56205	-0.05344
0.87221	0.58095	0.15999
0.81765	0.54343	0.20318
0.78740	0.58228	0.11521
0.74146	0.42252	0.03704
0.71181	0.47118	0.11478
0.77471	0.40948	0.82957
0.84909	0.43632	0.84893
0.83648	0.39299	-0.06928

0.84671 0.42760 0.13960
 0.87147 0.46728 0.05047
 0.80504 0.47222 0.15532
 0.44008 0.39987 0.12385
 0.93798 0.10111 0.87954
 0.36781 0.55791 0.79381
 0.56421 0.60160 0.88169
 0.13045 0.05674 0.78061
 0.06612 0.09970 0.87729
 0.62683 0.55877 0.78126
 0.43554 0.39957 0.88150
 0.86957 0.94311 0.78804
 0.93365 0.90000 0.11601
 0.38059 0.44290 0.22992
 0.93351 0.89955 0.88175
 0.37959 0.44268 0.77091
 0.43580 0.60023 0.12392
 0.87034 0.05616 0.21888
 0.93487 0.09949 0.12418
 0.36981 0.55694 0.21432
 0.87379 0.94364 0.21877
 0.56761 0.39737 0.10578
 0.13205 0.94240 0.21026
 0.06765 0.89922 0.11596
 0.61401 0.43956 0.23304
 0.19314 0.99969 0.10952
 0.94204 0.00245 0.34808
 0.69359 0.49277 0.16689
 0.44477 0.50274 0.34669
 0.80714 0.99894 0.10525
 0.06454 0.00042 0.34815
 0.30912 0.50062 0.11597
 0.56583 0.49629 0.35018
 0.80893 0.00038 0.88825
 0.06038 0.00263 0.65081
 0.30793 0.49957 0.89624
 0.55338 0.50440 0.65128
 0.19452 0.99936 0.89239
 0.93808 0.00098 0.65032
 0.43362 0.49870 0.65431
 0.00187 0.96087 0.17944
 0.50288 0.47023 0.13129
 0.99910 0.02916 0.13395
 0.50460 0.53886 0.18144
 0.00001 0.96111 0.81880
 0.50029 0.47160 0.86613
 0.00280 0.02937 0.86584
 0.49786 0.53970 0.82076
 0.07436 0.97079 -0.00138
 0.60389 0.46227 0.99440
 0.90224 0.03908 0.99474
 0.42924 0.52900 0.00486
 0.92743 0.97087 -0.00027
 0.40153 0.46114 0.00195
 0.09956 0.03902 0.00475
 0.57697 0.53027 0.99628
 0.56839 0.60123 0.11495
 0.12019 0.05772 0.23256
 0.06353 0.10074 0.12224
 0.63505 0.55824 0.20525
 0.56310 0.40110 0.86626
 0.12836 0.94354 0.77976
 0.06792 0.89999 0.88162
 0.62053 0.44496 0.76010
 0.43134 0.60095 0.89069
 0.88274 0.05823 0.76619
 0.69720 0.49894 0.84769
 0.78737 0.52161 0.98536
 0.74804 0.47326 -0.05499
 0.76820 0.50742 0.85778
 0.91209 -0.00038 0.15565
 0.91416 0.00026 0.83861
 0.41042 0.50070 0.84645
 0.41652 0.49919 0.16402
 0.50208 0.43111 -0.00312
 0.00087 0.06898 0.00023
 0.59145 0.49999 0.15383
 0.08783 -0.00005 0.15997
 0.50097 0.56940 0.00192
 0.08984 -0.00019 0.84294
 0.58572 0.50068 0.83742
 0.00085 0.93073 -0.00131

POSCAR file for gb_p5_prime

POSCAR file from zrtcpb-gb-ipa-c.res: C: 143 F: 1 H: 120 O: 66 P: 1 ZR: 12
 34.8920000000000

0.5792995890490465 -0.0000450140396845 0.0007649282407427
 -0.0000781726227076 1.0082675674799713 0.0000166934211398
 0.0004256087542374 0.0000053656439079 0.3214078049098053
 143 1 120 66 1 12

Direct

0.79248 0.88304 0.30286
 0.23343 0.21728 0.56203
 0.73130 0.71855 0.43352
 0.70660 0.68606 0.36234
 0.64434 0.68969 0.30907
 0.61621 0.65942 0.24849
 0.85521 0.81245 0.31070
 0.74101 0.65179 0.34911
 0.61448 0.59209 0.18477
 0.64888 0.62445 0.24308
 0.71173 0.62087 0.29286
 0.88490 0.84246 0.25123
 0.20674 0.18474 0.63096
 0.23439 0.78429 0.56228
 0.20811 0.81694 0.63101
 0.14499 0.81289 0.68124
 0.11538 0.84293 0.74085
 0.24171 0.85143 0.64511
 0.11279 0.90994 0.80704
 0.14766 0.87796 0.74804
 0.21120 0.88209 0.70093
 0.76219 0.85262 0.35996
 0.73038 0.28362 0.55960
 0.14341 0.18835 0.68060
 0.70215 0.31682 0.62387
 0.63484 0.31565 0.65370
 0.60448 0.34667 0.70694
 0.88897 0.90994 0.18993
 0.73807 0.34993 0.64809
 0.60635 0.41244 0.78688
 0.63993 0.38027 0.72528
 0.70673 0.38199 0.69429
 0.85430 0.87807 0.24955
 0.77321 0.21871 0.56179
 0.11387 0.15794 0.73859
 0.80177 0.18662 0.62842
 0.85973 0.19199 0.69462
 0.89024 0.16142 0.74972
 0.77391 0.15015 0.62260
 0.89742 0.09257 0.79751
 0.86368 0.12488 0.73852
 0.80493 0.11938 0.67576
 0.24054 0.15027 0.64387
 0.11232 0.09070 0.80430
 0.14637 0.12294 0.74480
 0.21005 0.11929 0.69789
 0.72725 0.71889 0.55937
 0.70058 0.68666 0.62799
 0.26897 0.71758 0.56449
 0.64633 0.69303 0.70372
 0.61704 0.66314 0.76456
 0.72631 0.64977 0.61889
 0.60703 0.59410 0.80965
 0.64108 0.62618 0.74967
 0.69626 0.61968 0.67756
 0.76385 0.78527 0.56182
 0.78962 0.81741 0.63285
 0.84706 0.81129 0.69995
 0.87690 0.84097 0.76076
 0.29370 0.68518 0.63495
 0.76124 0.85370 0.63279
 0.88653 0.90937 0.81183
 0.84032 0.47762 0.77790
 0.85045 0.87761 0.75404
 0.90263 0.57134 -0.10434
 0.84974 0.55945 -0.19213
 0.81912 0.59279 -0.25726
 0.79190 0.88371 0.69120
 0.85758 0.50442 0.10175
 0.90360 0.47079 1.08522
 0.27388 0.28267 0.56002
 0.89321 0.54167 0.07875
 0.30104 0.31507 0.62683
 0.35726 0.30950 0.69759
 0.38685 0.33998 0.75455
 0.27348 0.35156 0.61905
 0.39476 0.40882 0.79973
 0.35093 0.69032 0.70347
 0.36098 0.37659 0.74077
 0.27015 0.28330 0.43434
 0.30358 0.38225 0.67431
 0.76692 0.21672 0.43656
 0.79421 0.18397 0.36929

0.85919	0.18695	0.32678
0.29832	0.31563	0.36614
0.88899	0.15664	0.26884
0.75930	0.15016	0.35037
0.88922	0.09023	0.19565
0.37854	0.66013	0.76506
0.85508	0.12228	0.25608
0.79003	0.11916	0.29686
0.36332	0.31215	0.32408
0.26665	0.71674	0.43865
0.29223	0.68390	0.37013
0.35390	0.68804	0.31436
0.38296	0.65770	0.25551
0.25942	0.64898	0.36175
0.38643	0.59022	0.19484
0.35164	0.62229	0.25375
0.26339	0.64935	0.63419
0.28941	0.61812	0.30618
0.39429	0.34239	0.26750
0.23200	0.78344	0.43646
0.20680	0.81573	0.36624
0.15125	0.80996	0.29381
0.12270	0.84005	0.23314
0.23478	0.85215	0.37146
0.26454	0.34983	0.34783
0.11413	0.90874	0.18544
0.14888	0.87668	0.24422
0.38340	0.59187	0.81913
0.20574	0.88247	0.31220
0.39630	0.40933	0.19768
0.72483	0.28165	0.43419
0.69822	0.31374	0.36568
0.64450	0.30796	0.28896
0.61573	0.33847	0.23081
0.72446	0.35048	0.37786
0.60658	0.40761	0.19021
0.63988	0.37526	0.24946
0.69497	0.38117	0.32181
0.34984	0.62402	0.75853
0.36158	0.37715	0.25640
0.29645	0.38079	0.29618
0.74278	0.24816	0.37528
0.24831	0.74963	0.37777
0.25557	0.24965	0.62120
0.74381	0.75224	0.62022
0.25303	0.75146	0.62312
0.75506	0.25223	0.62083
0.75102	0.75163	0.37502
0.24741	0.25103	0.37523
0.29161	0.61887	0.69396
0.76706	0.78501	0.43600
0.22924	0.21798	0.43644
0.20126	0.18558	0.37040
0.14232	0.19078	0.30696
0.11191	0.16024	0.25166
0.23030	0.14942	0.37300
0.10540	0.09169	0.20178
0.13951	0.12390	0.26027
0.19928	0.11861	0.31992
0.79405	0.81736	0.36779
0.75629	0.45198	0.88458
0.79110	0.35086	0.62772
0.55250	0.34559	0.73440
0.60639	0.28987	0.63443
0.73711	0.59343	0.28795
0.23612	0.90960	0.70929
0.29229	0.85427	0.61119
0.06628	0.84015	0.78127
0.11894	0.78578	0.67115
0.79113	0.64923	0.38500
0.28321	0.41100	0.66747
0.22771	0.35564	0.56906
0.43097	0.33635	0.80975
0.56770	0.66186	0.20613
0.37850	0.28093	0.70441
0.73960	0.24710	0.27776
0.61758	0.71663	0.31785
0.77126	0.91245	0.68766
0.71472	0.85847	0.58565
0.92207	0.83668	0.81260
0.86909	0.78283	0.70103
0.24742	0.74911	0.28001
0.71449	0.59054	0.66787
0.77054	0.64478	0.56507
0.57427	0.66751	0.82298
0.62628	0.72187	0.71142
0.23522	0.09181	0.70405
0.29109	0.14766	0.60963

0.06462	0.16037	0.77861
0.11707	0.21540	0.67136
0.71385	0.41013	0.33294
0.76844	0.35473	0.43263
0.57342	0.33479	0.17122
0.62430	0.27925	0.27865
0.22622	0.91119	0.31901
0.27990	0.85662	0.42304
0.07869	0.83615	0.17788
0.12943	0.78148	0.28893
0.26497	0.59036	0.30322
0.20982	0.64596	0.39987
0.43102	0.66051	0.21127
0.37940	0.71547	0.31987
0.74165	0.75223	0.71794
0.76388	0.09212	0.28612
0.70776	0.14800	0.37996
0.93942	0.15867	0.23363
0.88640	0.21350	0.34089
0.25771	0.24951	0.71888
0.22079	0.09006	0.32320
0.27792	0.14565	0.41743
0.06581	0.16365	0.20183
0.11982	0.21911	0.30440
0.71420	0.52308	0.14891
0.57527	0.50089	0.57164
0.28793	0.52351	0.86387
0.42419	0.50150	0.42914
0.49953	0.49844	0.35807
0.58300	0.47212	0.36571
0.50024	0.50174	0.64146
0.41751	0.47386	0.63196
0.36230	0.44483	-0.00040
0.50044	0.55396	0.25532
0.49916	0.55615	0.74888
0.64823	0.45217	0.98583
0.30432	0.50073	0.00117
0.29152	0.52419	0.14223
0.08025	0.02496	0.37822
0.21769	0.02188	0.86294
0.19733	0.99924	0.00370
0.99577	0.00209	0.35512
0.78410	0.02160	0.13441
0.80466	0.99960	0.99409
0.92228	0.02594	0.62025
0.00621	0.00258	0.64279
0.13866	0.05542	0.00623
0.86345	0.05569	0.99235
0.00089	0.94491	0.24921
0.00061	0.94515	0.74814
0.21075	0.97571	0.13934
0.92176	0.99118	0.41847
0.79091	0.97694	0.85616
0.08007	0.99067	0.58065
0.27134	0.40815	0.28548
0.21287	0.35236	0.37636
0.44471	0.33989	0.23251
0.38970	0.28529	0.33761
0.75852	0.25332	0.71832
0.76887	0.91101	0.29823
0.71288	0.85602	0.39890
0.93280	0.83926	0.20664
0.87986	0.78478	0.31624
0.25410	0.75201	0.72086
0.26929	0.59053	0.69044
0.21693	0.64550	0.58606
0.42369	0.66352	0.81762
0.37461	0.71833	0.70487
0.75346	0.75163	0.27733
0.78419	0.09068	0.67027
0.72712	0.14615	0.57561
0.93565	0.16496	0.80147
0.88159	0.22046	0.69937
0.24511	0.25120	0.27757
0.73403	0.40849	0.70871
0.83508	0.44649	0.77977
0.83058	0.48704	0.68582
0.89141	0.48493	0.80360
0.92212	0.54661	0.94480
0.88217	0.59170	-0.03916
0.94416	0.58517	-0.15120
0.87074	0.53947	0.74220
0.85739	0.60908	-0.30538
0.79471	0.61213	-0.19326
0.78245	0.58311	-0.32345
0.84143	0.50438	0.19640
0.71695	0.48096	0.08431
0.87763	0.44364	1.09846

0.92671	0.47064	0.99614
0.94332	0.47269	0.15237
0.93429	0.54431	0.14295
0.91417	0.54252	-0.01199
0.85999	0.56623	0.09050
0.43980	0.40002	0.12095
0.93820	0.10167	0.87892
0.36575	0.55799	0.79426
0.56281	0.60322	0.88568
0.13096	0.05687	0.78061
0.06667	0.09995	0.87685
0.62316	0.56052	0.78054
0.43675	0.39971	0.87889
0.86972	0.94341	0.78704
0.93341	0.90026	0.11528
0.37989	0.44306	0.22624
0.93346	0.89981	0.88093
0.37989	0.44262	0.76904
0.43290	0.59980	0.12462
0.87027	0.05635	0.21786
0.93510	0.09974	0.12399
0.36913	0.55616	0.21878
0.87348	0.94385	0.21805
0.56736	0.39871	0.10654
0.13161	0.94266	0.21037
0.06750	0.89949	0.11528
0.61926	0.44114	0.22591
0.19299	0.99979	0.10989
0.94141	0.00263	0.34743
0.69607	0.49733	0.15293
0.44520	0.50063	0.35062
0.80717	0.99926	0.10392
0.06390	0.00061	0.34797
0.30891	0.50019	0.11134
0.56716	0.49775	0.34650
0.80910	0.00075	0.88692
0.06063	0.00298	0.65046
0.30682	0.49984	0.89427
0.55378	0.50524	0.64856
0.19460	0.99946	0.89279
0.93814	0.00139	0.64972
0.43139	0.49977	0.65224
0.00156	0.96112	0.17886
0.50121	0.47064	0.13013
0.99899	0.02945	0.13327
0.50162	0.53888	0.18249
0.00010	0.96144	0.81828
0.50099	0.47238	0.86533
0.00304	0.02973	0.86543
0.49697	0.54061	0.82072
0.07430	0.97101	0.99841
0.60339	0.46330	0.99602
0.90241	0.03946	0.99381
0.42760	0.52918	0.00340
0.92736	0.97115	0.99885
0.40111	0.46126	0.99846
0.09961	0.03925	0.00469
0.57437	0.53110	0.99881
0.56568	0.60129	0.11973
0.12005	0.05787	0.23276
0.06375	0.10093	0.12197
0.63425	0.55829	0.20475
0.56431	0.40214	0.86515
0.12844	0.94386	0.77931
0.06786	0.90028	0.88084
0.62163	0.44640	0.76058
0.42914	0.60114	0.89095
0.88317	0.05881	0.76529
0.70792	0.50630	0.83079
0.79690	0.54123	0.87325
0.79490	0.50113	1.03906
0.77655	0.49649	0.87894
0.91188	-0.00007	0.15477
0.91440	0.00070	0.83773
0.41169	0.50065	0.84225
0.41334	0.49945	0.15936
0.50242	0.43153	0.99431
0.00102	0.06940	0.99974
0.58726	0.50022	0.15676
0.08755	0.00020	0.15994
0.49913	0.57001	0.00247
0.09006	0.00008	0.84295
0.58783	0.50248	0.83952
0.00073	0.93099	0.99806

POSCAR file for gb_product

POSCAR file from zrtepb-gb-ipa-c.res: C: 143 F: 1 H: 120 O: 66 P: 1 ZR: 12
34.8920000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053
143 1 120 66 1 12
Direct
0.79431 0.88551 0.30413
0.23451 0.21858 0.56273
0.72689 0.72270 0.43056
0.70188 0.69089 0.35701
0.63473 0.69122 0.32765
0.60681 0.66074 0.26809
0.85676 0.81480 0.31451
0.74129 0.66026 0.32078
0.61067 0.59563 0.18872
0.64511 0.62875 0.24180
0.71268 0.62874 0.26672
0.88656 0.84448 0.25375
0.20707 0.18616 0.63150
0.23254 0.78387 0.56175
0.20653 0.81673 0.63009
0.14228 0.81372 0.67612
0.11333 0.84403 0.73543
0.24176 0.85050 0.64804
0.11333 0.91060 0.80580
0.14742 0.87840 0.74644
0.21199 0.88152 0.70334
0.76384 0.85539 0.36221
0.73051 0.28429 0.56029
0.14226 0.18892 0.67505
0.70369 0.31791 0.62376
0.63493 0.32088 0.63726
0.60700 0.35265 0.69034
0.89030 0.91159 0.18959
0.74378 0.34764 0.66407
0.61574 0.41570 0.78771
0.64717 0.38306 0.72481
0.71555 0.38049 0.71087
0.85596 0.88007 0.25081
0.77444 0.21978 0.56279
0.11277 0.15837 0.73248
0.80284 0.18777 0.62969
0.85842 0.19358 0.70185
0.88898 0.16307 0.75717
0.77690 0.15095 0.61880
0.89897 0.09392 0.79839
0.86475 0.12621 0.74038
0.80797 0.12028 0.67231
0.24207 0.15230 0.64913
0.11326 0.09168 0.80376
0.14684 0.12400 0.74382
0.21176 0.12112 0.70228
0.71943 0.72273 0.55583
0.69165 0.69026 0.62135
0.26787 0.71727 0.56444
0.64636 0.69654 0.71446
0.61958 0.66627 0.77722
0.70905 0.65275 0.59314
0.60888 0.59665 0.81420
0.63685 0.62902 0.74668
0.68087 0.62245 0.65312
0.76092 0.78805 0.56268
0.78726 0.81970 0.63504
0.84461 0.81303 0.70179
0.87541 0.84250 0.76202
0.29356 0.68497 0.63453
0.75966 0.85619 0.63527
0.88698 0.91089 0.81202
0.81721 0.45825 0.80436
0.84987 0.87935 0.75526
0.90905 0.56489 0.82953
0.84748 0.54297 0.79375
0.79632 0.56853 0.73773
0.79121 0.88595 0.69331
0.80691 0.46046 0.13398
0.86682 0.44000 0.08495
0.27787 0.28341 0.55938
0.82375 0.49428 0.21180
0.30628 0.31585 0.62501
0.36137 0.30996 0.69837
0.39239 0.34042 0.75332
0.28126 0.35280 0.61277
0.40447 0.40965 0.79096
0.35098 0.69041 0.70224
0.36923 0.37741 0.73472
0.27470 0.28356 0.43368
0.31283 0.38344 0.66575

0.76766	0.21757	0.43762
0.79554	0.18486	0.37076
0.86217	0.18674	0.33681
0.30320	0.31549	0.36386
0.89199	0.15647	0.27856
0.75922	0.15212	0.34397
0.89028	0.09112	0.19653
0.37979	0.66030	0.76248
0.85634	0.12311	0.25774
0.78985	0.12101	0.29086
0.36891	0.31247	0.32516
0.26571	0.71639	0.43870
0.29117	0.68339	0.37047
0.35343	0.68702	0.31653
0.38195	0.65659	0.25725
0.25747	0.64876	0.36007
0.38406	0.58953	0.19242
0.34962	0.62146	0.25314
0.26434	0.64885	0.63313
0.28692	0.61775	0.30417
0.39931	0.34235	0.26560
0.23056	0.78306	0.43598
0.20586	0.81555	0.36567
0.15143	0.81003	0.29036
0.12363	0.84033	0.22939
0.23341	0.85203	0.37358
0.26820	0.34889	0.33928
0.11497	0.90929	0.18467
0.14919	0.87701	0.24337
0.38736	0.59199	0.81373
0.20495	0.88258	0.31447
0.39923	0.40859	0.18799
0.72415	0.28210	0.43510
0.69814	0.31450	0.36740
0.64575	0.30916	0.28758
0.61797	0.34003	0.22980
0.72400	0.35117	0.38379
0.60947	0.40922	0.19247
0.64184	0.37667	0.25194
0.69557	0.38218	0.32779
0.35233	0.62389	0.75479
0.36519	0.37638	0.24793
0.29937	0.37954	0.28455
0.74241	0.24869	0.37614
0.24729	0.74927	0.37754
0.25773	0.25087	0.62127
0.73763	0.75537	0.61898
0.25126	0.75107	0.62289
0.75623	0.25327	0.62175
0.75097	0.75509	0.37427
0.25098	0.25136	0.37524
0.29395	0.61838	0.69090
0.76704	0.78801	0.43739
0.23100	0.21882	0.43715
0.20247	0.18634	0.37182
0.14448	0.19167	0.30577
0.11417	0.16115	0.25002
0.23047	0.14994	0.37727
0.10680	0.09247	0.20214
0.14072	0.12463	0.26121
0.19942	0.11914	0.32408
0.79560	0.82015	0.37097
0.67260	0.42254	0.96858
0.79765	0.34542	0.65472
0.55358	0.35440	0.70603
0.60343	0.29760	0.60599
0.74253	0.60377	0.24405
0.23837	0.90847	0.71442
0.29308	0.85253	0.61723
0.06337	0.84195	0.77273
0.11485	0.78719	0.66313
0.79434	0.66047	0.34087
0.29439	0.41249	0.65481
0.23650	0.35739	0.56025
0.43560	0.33632	0.81053
0.55448	0.66059	0.24344
0.38066	0.28106	0.70924
0.73919	0.24757	0.27863
0.60440	0.71560	0.35419
0.77130	0.91486	0.68991
0.71315	0.86128	0.58842
0.92068	0.83787	0.81331
0.86587	0.78438	0.70274
0.24664	0.74872	0.27977
0.69290	0.59313	0.62947
0.74553	0.64730	0.52340
0.58454	0.67068	0.85047
0.63157	0.72572	0.73594

0.23810	0.09410	0.71206
0.29349	0.15031	0.61883
0.06239	0.16023	0.76803
0.11478	0.21541	0.66175
0.71425	0.41108	0.34130
0.76667	0.35509	0.44216
0.57670	0.33674	0.16765
0.62569	0.28052	0.27454
0.22511	0.91131	0.32375
0.27767	0.85643	0.42757
0.08063	0.83647	0.17155
0.12991	0.78154	0.28296
0.26149	0.59030	0.29948
0.20748	0.64611	0.39688
0.43028	0.65914	0.21379
0.37972	0.71416	0.32346
0.73445	0.75504	0.71658
0.76234	0.09473	0.27424
0.70666	0.15079	0.36775
0.94368	0.15782	0.24954
0.89057	0.21243	0.35735
0.25941	0.25099	0.71900
0.22024	0.09047	0.32949
0.27730	0.14593	0.42412
0.06900	0.16477	0.19761
0.12268	0.22014	0.30085
0.69906	0.53133	0.21145
0.58882	0.49788	0.58410
0.29642	0.52417	0.85170
0.42162	0.50794	0.41958
0.49629	0.49765	0.35601
0.58057	0.47319	0.36781
0.51288	0.50452	0.64306
0.43070	0.47659	0.62070
0.36821	0.44446	0.98857
0.49905	0.55444	0.25512
0.50591	0.55810	0.75039
0.65385	0.45273	0.99029
0.30842	0.50019	0.98250
0.29117	0.52231	0.13202
0.08222	0.02576	0.37762
0.21901	0.02252	0.86222
0.19856	0.99973	0.00432
0.99725	0.00322	0.35478
0.78476	0.02242	0.13328
0.80586	0.00100	0.99425
0.92376	0.02719	0.61957
0.00756	0.00366	0.64220
0.14012	0.05631	0.00620
0.86483	0.05699	0.99222
0.00247	0.94584	0.24858
0.00163	0.94634	0.74731
0.21167	0.97589	0.13822
0.92330	0.99219	0.41752
0.79171	0.97909	0.85361
0.08143	0.99155	0.58030
0.27323	0.40636	0.26917
0.21611	0.35104	0.36569
0.45040	0.34016	0.23366
0.39633	0.28627	0.34366
0.76002	0.25453	0.71918
0.77094	0.91351	0.29812
0.71444	0.85889	0.40062
0.93435	0.84104	0.20898
0.88104	0.78704	0.32097
0.25226	0.75168	0.72064
0.27245	0.58985	0.68633
0.21779	0.64469	0.58548
0.42503	0.66402	0.81457
0.37386	0.71865	0.70426
0.75592	0.75522	0.27691
0.78883	0.09132	0.66290
0.73172	0.14659	0.56723
0.93268	0.16694	0.81326
0.87853	0.22236	0.71102
0.24917	0.25124	0.27754
0.74627	0.40419	0.74037
0.81965	0.42911	0.83899
0.78962	0.45800	0.71959
0.86728	0.46930	0.78801
0.94628	0.54625	0.87130
0.89583	0.58752	0.89357
0.93188	0.57848	0.75087
0.86224	0.52084	0.72799
0.81525	0.58086	0.65376
0.78377	0.59208	0.79881
0.75032	0.55277	0.72023
0.77769	0.44012	0.18805

0.72928	0.49519	0.13657
0.85169	0.41603	0.02788
0.89836	0.45954	1.03309
0.89647	0.42860	0.15919
0.84749	0.48392	0.29415
0.85732	0.51403	0.16591
0.77872	0.51003	0.23738
0.44426	0.39973	0.11360
0.93959	0.10290	0.88022
0.37188	0.55789	0.78678
0.56558	0.60503	0.89261
0.13194	0.05788	0.78018
0.06788	0.10094	0.87691
0.62902	0.56335	0.78945
0.44698	0.40073	0.86957
0.87073	0.94497	0.78691
0.93419	0.90171	0.11434
0.38064	0.44213	0.21415
0.93403	0.90109	0.88048
0.39035	0.44349	0.75918
0.42942	0.59948	0.12050
0.87090	0.05724	0.21756
0.93638	0.10066	0.12550
0.36776	0.55527	0.21643
0.87495	0.94557	0.21727
0.57251	0.40057	0.10520
0.13274	0.94318	0.20955
0.06822	0.90034	0.11430
0.62007	0.44260	0.23122
0.19444	0.00015	0.10909
0.94301	0.00398	0.34708
0.69551	0.50354	0.19898
0.44172	0.49789	0.34691
0.80823	0.00030	0.10222
0.06555	0.00145	0.34761
0.31127	0.49921	0.09993
0.56363	0.49853	0.34786
0.81059	0.00257	0.88545
0.06197	0.00392	0.64998
0.31279	0.49976	0.88139
0.56604	0.50850	0.65323
0.19552	0.00020	0.89181
0.93950	0.00264	0.64929
0.44355	0.50192	0.64860
0.00288	0.96215	0.17845
0.50303	0.47112	0.12926
0.00045	0.03042	0.13319
0.50048	0.53944	0.18216
0.00124	0.96255	0.81767
0.50991	0.47441	0.86565
0.00452	0.03083	0.86567
0.50409	0.54204	0.82117
0.07546	0.97196	0.99783
0.61071	0.46643	0.00211
0.90375	0.04072	0.99380
0.43045	0.52937	0.99878
0.92878	0.97246	0.99833
0.40648	0.46129	0.98980
0.10106	0.04014	0.00454
0.57788	0.53329	0.00435
0.56072	0.60390	0.12559
0.12148	0.05858	0.23246
0.06511	0.10172	0.12236
0.63062	0.56219	0.21236
0.57469	0.40527	0.86724
0.12947	0.94447	0.77859
0.06830	0.90110	0.87973
0.63050	0.44968	0.76104
0.43232	0.60157	0.88677
0.88534	0.06022	0.76501
0.70522	0.50657	0.86963
0.82247	0.52517	0.89906
0.75988	0.46918	0.03961
0.77083	0.48824	0.90703
0.91321	0.00117	0.15432
0.91563	0.00207	0.83722
0.42000	0.50106	0.83570
0.41327	0.49922	0.15343
0.50853	0.43278	0.99187
0.00247	0.07054	0.00001
0.58718	0.50140	0.16093
0.08898	0.00101	0.15969
0.50015	0.57100	0.00306
0.09146	0.00104	0.84237
0.59753	0.50517	0.84621
0.00185	0.93202	0.99734

POSCAR file for gd_solvent

POSCAR file from zrtcpb-gd-ipa-c.res: C: 146 F: 1 H: 126 O: 66 P: 1 ZR: 12
34.89200000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053
146 1 126 66 1 12
Direct
0.79241 0.88298 0.30290
0.64952 0.62447 0.24179
0.26482 0.64901 0.63477
0.29124 0.61833 0.30453
0.39247 0.34179 0.26470
0.23242 0.78321 0.43733
0.20708 0.81548 0.36708
0.15063 0.80981 0.29681
0.12204 0.83987 0.23604
0.23584 0.85172 0.37002
0.26436 0.35018 0.35218
0.11443 0.90843 0.18580
0.71167 0.62073 0.29409
0.14906 0.87636 0.24489
0.38548 0.59173 0.81864
0.20673 0.88201 0.31073
0.39607 0.40922 0.20029
0.72287 0.28067 0.43843
0.69441 0.31262 0.37241
0.64249 0.30637 0.29188
0.61255 0.33674 0.23496
0.71712 0.34986 0.39112
0.60234 0.40619 0.19633
0.88497 0.84232 0.25296
0.63353 0.37382 0.25932
0.68605 0.38029 0.33747
0.35188 0.62387 0.75810
0.36088 0.37701 0.25771
0.29646 0.38109 0.30070
0.74092 0.24747 0.37796
0.24910 0.74950 0.37849
0.25484 0.24970 0.62228
0.74414 0.75177 0.62062
0.25322 0.75105 0.62382
0.20628 0.18472 0.63220
0.75696 0.225138 0.62302
0.75012 0.75187 0.37543
0.24684 0.25086 0.37636
0.29349 0.61859 0.69414
0.76651 0.78507 0.43693
0.22872 0.21783 0.43764
0.20078 0.18540 0.37159
0.14129 0.19045 0.30966
0.11104 0.15992 0.25402
0.23042 0.14940 0.37249
0.23449 0.78393 0.56323
0.10539 0.09147 0.20219
0.13929 0.12372 0.26099
0.19951 0.11858 0.31925
0.79369 0.81745 0.36894
0.20821 0.81656 0.63199
0.14565 0.81232 0.68428
0.11602 0.84241 0.74362
0.24129 0.85127 0.64389
0.11285 0.90964 0.80754
0.23283 0.21726 0.56326
0.14773 0.87763 0.74871
0.21078 0.88193 0.69970
0.76184 0.85266 0.36010
0.73065 0.28259 0.56355
0.14340 0.18844 0.68354
0.70250 0.31539 0.62969
0.63451 0.31479 0.65399
0.60392 0.34578 0.70685
0.88923 0.90969 0.19058
0.73920 0.34764 0.66043
0.73099 0.71857 0.43334
0.60562 0.41111 0.78904
0.64010 0.37877 0.73020
0.70784 0.37972 0.70631
0.85440 0.87791 0.25031
0.77450 0.21805 0.56255
0.89835 0.48395 1.13566
0.96479 0.53684 1.07502
0.92483 0.49814 0.91235
0.11389 0.15794 0.74114
0.80337 0.18595 0.62825
0.86207 0.19116 0.69236

0.89218	0.16055	0.74785
0.77437	0.14977	0.62459
0.70676	0.68618	0.36127
0.89771	0.09196	0.79834
0.86442	0.12426	0.73881
0.80502	0.11895	0.67804
0.23968	0.15008	0.64305
0.11202	0.09047	0.80462
0.14596	0.12280	0.74533
0.20921	0.11904	0.69677
0.72743	0.71856	0.55926
0.70089	0.68608	0.62709
0.26964	0.71729	0.56499
0.64528	0.68996	0.30521
0.64694	0.69192	0.70391
0.61811	0.66171	0.76407
0.72599	0.64918	0.61484
0.60884	0.59246	0.80755
0.64158	0.62477	0.74616
0.69542	0.61873	0.67071
0.76394	0.78497	0.56273
0.78978	0.81705	0.63391
0.84736	0.81096	0.70061
0.87718	0.84070	0.76132
0.61745	0.65966	0.24429
0.29485	0.68494	0.63519
0.76131	0.85330	0.63392
0.88660	0.90906	0.81265
0.79959	0.54009	0.74860
0.85058	0.87728	0.75484
0.90409	0.51364	0.03526
0.84830	0.54159	0.01735
0.83064	0.56364	0.12834
0.79195	0.88333	0.69224
0.75992	0.40934	0.07813
0.85509	0.81246	0.31282
0.79171	0.38548	0.98139
0.27300	0.28272	0.56101
0.80911	0.42152	0.17280
0.30047	0.31512	0.62769
0.35788	0.30967	0.69541
0.38756	0.34008	0.75266
0.27215	0.35146	0.62275
0.39437	0.40871	0.80148
0.35231	0.69017	0.70304
0.36079	0.37656	0.74172
0.74089	0.65174	0.34983
0.26926	0.28323	0.43533
0.30247	0.38212	0.67783
0.76665	0.21615	0.43755
0.79365	0.18360	0.36903
0.85781	0.18706	0.32298
0.29724	0.31552	0.36683
0.88762	0.15679	0.26481
0.75940	0.14943	0.35290
0.88909	0.08993	0.19573
0.38036	0.66004	0.76434
0.61573	0.59195	0.18317
0.85460	0.12205	0.25531
0.79021	0.11852	0.29900
0.36132	0.31152	0.32076
0.26757	0.71659	0.43910
0.29338	0.68398	0.36982
0.35440	0.68862	0.31216
0.38359	0.65857	0.25197
0.26118	0.64885	0.36171
0.38796	0.59092	0.19187
0.35295	0.62297	0.25049
0.81098	0.47135	0.83027
0.79267	0.34802	0.64391
0.55125	0.34516	0.72979
0.60572	0.28952	0.63031
0.73615	0.59299	0.29167
0.23534	0.90960	0.70654
0.29150	0.85430	0.60835
0.06733	0.83950	0.78554
0.11997	0.78502	0.67593
0.79073	0.64917	0.38692
0.28149	0.41077	0.67301
0.22560	0.35545	0.57502
0.43238	0.33648	0.80605
0.56960	0.66223	0.19963
0.37980	0.28123	0.69992
0.73652	0.24657	0.28058
0.61889	0.71707	0.31214
0.77121	0.91206	0.68874
0.71480	0.85804	0.58671
0.92249	0.83648	0.81287

0.86956	0.78257	0.70144
0.24839	0.74907	0.28073
0.71167	0.58953	0.65486
0.76981	0.64440	0.55990
0.57599	0.66585	0.82415
0.62682	0.72068	0.71356
0.23406	0.09143	0.70139
0.28993	0.14736	0.60749
0.06498	0.16043	0.78246
0.11734	0.21563	0.67583
0.70250	0.40956	0.35206
0.75992	0.35458	0.44840
0.57229	0.33267	0.17116
0.62493	0.27729	0.27707
0.22784	0.91062	0.31576
0.28160	0.85607	0.41982
0.07743	0.83604	0.18229
0.12824	0.78146	0.29368
0.26742	0.59039	0.30189
0.21203	0.64543	0.40134
0.43129	0.66173	0.20671
0.37939	0.71621	0.31744
0.74232	0.75158	0.71837
0.76471	0.09120	0.29058
0.70839	0.14689	0.38505
0.93745	0.15912	0.22709
0.88451	0.21390	0.33478
0.25706	0.24959	0.71996
0.22148	0.09014	0.32127
0.27840	0.14574	0.41571
0.06463	0.16323	0.20510
0.11831	0.21865	0.30840
0.71579	0.51748	0.15564
0.57568	0.49651	0.57830
0.28717	0.52263	0.86264
0.41964	0.49831	0.41983
0.51027	0.49825	0.35703
0.57779	0.46955	0.36060
0.49466	0.50074	0.64448
0.42023	0.47263	0.63527
0.36229	0.44475	0.00205
0.50181	0.55359	0.25475
0.50013	0.55491	0.74834
0.64688	0.44795	0.99411
0.30474	0.50102	0.01564
0.29641	0.52649	0.14243
0.08078	0.02476	0.37827
0.21747	0.02188	0.86303
0.19742	0.99904	0.00305
0.99632	0.00188	0.35556
0.78424	0.02130	0.13514
0.80471	0.99923	0.99545
0.92201	0.02554	0.62087
0.00589	0.00226	0.64311
0.13868	0.05523	0.00652
0.86350	0.05528	0.99310
0.00135	0.94453	0.24971
0.00062	0.94481	0.74851
0.21120	0.97560	0.13922
0.92230	0.99088	0.41895
0.79083	0.97664	0.85697
0.07990	0.99051	0.58067
0.27213	0.40878	0.29273
0.21323	0.35307	0.38332
0.44223	0.33898	0.22699
0.38691	0.28427	0.33116
0.76180	0.25229	0.72032
0.76887	0.91096	0.29754
0.71241	0.85617	0.39847
0.93296	0.83902	0.20876
0.87973	0.78479	0.31923
0.25414	0.75153	0.72157
0.27143	0.59019	0.69091
0.21821	0.64505	0.58719
0.42562	0.66357	0.81651
0.37575	0.71825	0.70429
0.75226	0.75211	0.27773
0.78349	0.09042	0.67448
0.72696	0.14610	0.57937
0.93808	0.16385	0.79830
0.88469	0.21945	0.69530
0.24456	0.25098	0.27869
0.73569	0.40567	0.72599
0.78236	0.53082	0.66015
0.77956	0.56860	0.76733
0.85406	0.54068	0.74949
0.86028	0.56163	-0.05576
0.87313	0.58090	0.15758

0.81742	0.54391	0.20121
0.78856	0.58283	0.11199
0.72131	0.39154	0.12230
0.71976	0.46268	0.08940
0.75462	0.37595	0.91613
0.82970	0.40228	0.93389
0.81544	0.36011	0.02011
0.82766	0.39666	0.22247
0.85177	0.43589	0.13059
0.78578	0.44137	0.23645
0.95294	0.51376	0.83902
0.96732	0.47779	0.93208
0.88073	0.47922	0.89029
0.88213	0.49482	1.22688
0.95219	0.47534	1.12179
0.86985	0.45648	1.15220
0.97582	0.56069	1.00910
0.94679	0.53496	1.17122
1.01561	0.52311	1.08416
0.43981	0.33992	0.12393
0.93834	0.10113	0.87978
0.36766	0.55789	0.79374
0.56417	0.60163	0.88217
0.13064	0.05668	0.78062
0.06647	0.09967	0.87747
0.62673	0.55877	0.78180
0.43572	0.39951	0.88158
0.86970	0.94308	0.78790
0.93368	0.89997	0.11607
0.38011	0.44297	0.22953
0.93355	0.89954	0.88172
0.37983	0.44254	0.77056
0.43566	0.60028	0.12399
0.87035	0.05608	0.21866
0.93505	0.09941	0.12426
0.36969	0.55698	0.21422
0.87378	0.94362	0.21856
0.56721	0.39738	0.10680
0.13207	0.94234	0.21041
0.06780	0.89917	0.11575
0.61412	0.43958	0.23331
0.19318	0.99961	0.10968
0.94190	0.00244	0.34802
0.69337	0.49310	0.16470
0.44437	0.50267	0.34642
0.80724	0.99892	0.10482
0.06439	0.00038	0.34828
0.30883	0.50101	0.11496
0.56540	0.49639	0.35001
0.80913	0.00040	0.88783
0.06042	0.00266	0.65071
0.30772	0.49973	0.89501
0.55338	0.50448	0.65136
0.19467	0.99932	0.89257
0.93804	0.00101	0.65026
0.43351	0.49875	0.65417
0.00195	0.96080	0.17948
0.50266	0.47025	0.13115
0.99922	0.02911	0.13404
0.50430	0.53883	0.18132
0.00012	0.96109	0.81871
0.50017	0.47161	0.86631
0.00302	0.02937	0.86583
0.49778	0.53975	0.82100
0.07442	0.97077	-0.00134
0.60384	0.46225	0.99450
0.90247	0.03905	0.99470
0.42892	0.52901	0.00465
0.92755	0.97083	-0.00035
0.40118	0.46111	0.00155
0.09973	0.03898	0.00493
0.57661	0.53025	0.99662
0.56816	0.60116	0.11520
0.12028	0.05768	0.23289
0.06370	0.10070	0.12246
0.63507	0.55827	0.20526
0.56313	0.40112	0.86647
0.12843	0.94355	0.77968
0.06796	0.90000	0.88148
0.62046	0.44495	0.76006
0.43118	0.60091	0.89064
0.88315	0.05826	0.76637
0.69694	0.49942	0.84712
0.78773	0.52151	0.98392
0.72903	0.44133	0.02539
0.76810	0.50765	0.85617
0.91215	-0.00041	0.15554
0.50071	0.56940	0.00212

0.08790 -0.00011 0.16016
 0.59120 0.49999 0.15393
 0.00114 0.06894 0.00040
 0.50207 0.43111 -0.00305
 0.41625 0.49918 0.16359
 0.41029 0.50065 0.84613
 0.91437 0.00025 0.83853
 0.09000 -0.00021 0.84303
 0.58559 0.50073 0.83769
 0.00094 0.93069 -0.00135

POSCAR file for gd_p5

POSCAR file from zrtcpb-gd-ipa-c.res: C: 146 F: 1 H: 126 O: 66 P: 1 ZR: 12
 34.8920000000000
 0.5792995890490465 -0.0000450140396845 0.0007649282407427
 -0.0000781726227076 1.0082675674799713 0.0000166934211398
 0.0004256087542374 0.0000053656439079 0.3214078049098053

146 1 126 66 1 12

Direct

0.79249	0.88300	0.30315
0.65043	0.62429	0.24148
0.26508	0.64905	0.63414
0.29081	0.61849	0.30345
0.39341	0.34236	0.26881
0.23223	0.78328	0.43717
0.20693	0.81560	0.36707
0.15136	0.80983	0.29472
0.12288	0.83991	0.23383
0.23493	0.85201	0.37219
0.26390	0.34983	0.35008
0.11434	0.90856	0.18610
0.71436	0.62155	0.28712
0.14905	0.87653	0.24491
0.38561	0.59190	0.81901
0.20586	0.88233	0.31298
0.39585	0.40940	0.20034
0.71984	0.28011	0.44093
0.69033	0.31203	0.37621
0.63960	0.30573	0.29330
0.60953	0.33612	0.23669
0.71117	0.34944	0.39853
0.59946	0.40577	0.19916
0.88520	0.84247	0.25303
0.62885	0.37329	0.26428
0.67946	0.37985	0.34614
0.35186	0.62401	0.75846
0.36081	0.37718	0.25835
0.29575	0.38081	0.29847
0.73848	0.24714	0.37971
0.24887	0.74959	0.37827
0.25537	0.24946	0.62272
0.74419	0.75178	0.62053
0.25330	0.75112	0.62352
0.20685	0.18450	0.63218
0.75671	0.25116	0.62440
0.75062	0.75183	0.37541
0.24718	0.25089	0.37685
0.29370	0.61866	0.69384
0.76691	0.78503	0.43697
0.22918	0.21779	0.43782
0.20123	0.18536	0.37171
0.14214	0.19048	0.30870
0.11185	0.15995	0.25310
0.23045	0.14926	0.37385
0.23445	0.78398	0.56296
0.10562	0.09143	0.20278
0.13962	0.12366	0.26136
0.19945	0.11843	0.32080
0.79408	0.81744	0.36906
0.20810	0.81661	0.63173
0.14485	0.81264	0.68142
0.11521	0.84271	0.74082
0.24178	0.85106	0.64612
0.11286	0.90966	0.80767
0.23338	0.21708	0.56335
0.14763	0.87770	0.74843
0.21128	0.88175	0.70177
0.76205	0.85260	0.36016
0.72888	0.28208	0.56579
0.14349	0.18804	0.68170
0.70123	0.31498	0.63204
0.63280	0.31566	0.65186
0.60303	0.34710	0.70349
0.88915	0.90981	0.19068
0.73917	0.34651	0.66531
0.73115	0.71859	0.43336

0.60703	0.41187	0.78919
0.64064	0.37938	0.72953
0.70876	0.37917	0.70917
0.85447	0.87802	0.25047
0.77451	0.21799	0.56327
0.92017	0.55074	0.08144
0.95469	0.59638	-0.07818
0.94270	0.52770	0.87497
0.11400	0.15760	0.73958
0.80384	0.18590	0.62831
0.86148	0.19134	0.69527
0.89164	0.16077	0.75085
0.77590	0.14948	0.62178
0.70688	0.68616	0.36132
0.89827	0.09203	0.79873
0.86498	0.12429	0.73910
0.80660	0.11872	0.67539
0.24074	0.15006	0.64509
0.11256	0.09041	0.80533
0.14661	0.12265	0.74587
0.21032	0.11906	0.69908
0.72736	0.71861	0.55909
0.70103	0.68606	0.62686
0.26971	0.71737	0.56464
0.64355	0.68898	0.31191
0.64854	0.69198	0.70678
0.61996	0.66173	0.76713
0.72511	0.64903	0.61174
0.60932	0.59239	0.80752
0.64234	0.62469	0.74664
0.69498	0.61860	0.66849
0.76409	0.78497	0.56264
0.78979	0.81707	0.63399
0.84713	0.81098	0.70132
0.87693	0.84068	0.76211
0.61604	0.65862	0.25089
0.29492	0.68501	0.63492
0.76143	0.85338	0.63376
0.88663	0.90909	0.81290
0.75836	0.54313	0.74889
0.85053	0.87732	0.75520
0.91499	0.56046	-0.05071
0.84237	0.56712	-0.08578
0.80712	0.59874	-0.02039
0.79204	0.88340	0.69220
0.82264	0.43802	-0.01175
0.85550	0.81256	0.31301
0.85032	0.41841	0.87890
0.27356	0.28252	0.56176
0.87739	0.45275	0.06815
0.30098	0.31488	0.62864
0.35751	0.30927	0.69856
0.38721	0.33968	0.75580
0.27343	0.35136	0.62156
0.39503	0.40850	0.80182
0.35214	0.69031	0.70333
0.36130	0.37629	0.74266
0.74298	0.65266	0.34343
0.26969	0.28319	0.43616
0.30375	0.38201	0.67670
0.76575	0.21609	0.43847
0.79329	0.18369	0.36968
0.85856	0.18671	0.32864
0.29761	0.31559	0.36791
0.88864	0.15649	0.27055
0.75838	0.14498	0.34913
0.88927	0.09010	0.19655
0.38012	0.66022	0.76496
0.61673	0.59173	0.18281
0.85476	0.12218	0.25644
0.78943	0.11906	0.29570
0.36249	0.31208	0.32521
0.26746	0.71167	0.43884
0.29318	0.68406	0.36941
0.35441	0.68862	0.31243
0.38357	0.65857	0.25225
0.26075	0.64902	0.36057
0.38786	0.59099	0.19168
0.35274	0.62303	0.25014
0.79921	0.48065	0.74630
0.79287	0.34599	0.65137
0.55002	0.34743	0.72346
0.60304	0.29103	0.62557
0.74093	0.59456	0.27877
0.23630	0.90922	0.71042
0.29245	0.85386	0.61250
0.06599	0.83999	0.78077
0.11872	0.78556	0.67108

0.79387	0.65086	0.37632
0.28346	0.41079	0.67018
0.22753	0.35550	0.57196
0.43139	0.33597	0.81081
0.56671	0.66046	0.21138
0.37881	0.28070	0.70478
0.73354	0.24630	0.28242
0.61555	0.71537	0.32398
0.77138	0.91214	0.68849
0.71499	0.85816	0.58635
0.92208	0.83640	0.81405
0.86915	0.78252	0.70260
0.24804	0.74915	0.28050
0.71071	0.58937	0.65132
0.76762	0.64415	0.55357
0.57883	0.66590	0.82941
0.62919	0.72083	0.71864
0.23557	0.09160	0.70529
0.29130	0.14749	0.61083
0.06468	0.15997	0.77937
0.11708	0.21507	0.67235
0.69454	0.40920	0.36364
0.75316	0.35437	0.45743
0.57071	0.33201	0.17007
0.62322	0.27657	0.27577
0.22630	0.91106	0.31985
0.28008	0.85648	0.42369
0.07897	0.83597	0.17830
0.12952	0.78136	0.28985
0.26680	0.59060	0.30034
0.21143	0.64567	0.39961
0.43141	0.66167	0.20743
0.37955	0.71615	0.31820
0.74233	0.75158	0.71829
0.76333	0.09204	0.28414
0.70672	0.14773	0.37802
0.93931	0.15857	0.23652
0.88584	0.21316	0.34410
0.25755	0.24926	0.72041
0.22108	0.08991	0.32388
0.27818	0.14552	0.41795
0.06576	0.16335	0.20322
0.11946	0.21877	0.30646
0.71667	0.51602	0.16519
0.57479	0.49843	0.57466
0.28721	0.52229	0.86164
0.41955	0.49819	0.41949
0.50979	0.49863	0.35719
0.57724	0.46983	0.36160
0.49698	0.50087	0.64427
0.41890	0.47328	0.63447
0.36272	0.44476	0.00131
0.50175	0.55377	0.25482
0.50030	0.55513	0.74892
0.64716	0.44791	0.99559
0.30498	0.50095	0.01452
0.29640	0.52652	0.14125
0.08051	0.02479	0.37914
0.21772	0.02174	0.86367
0.19756	0.99894	0.00467
0.99602	0.00198	0.35609
0.78417	0.02145	0.13534
0.80480	0.99937	0.99527
0.92231	0.02541	0.62077
0.00631	0.00226	0.64358
0.13891	0.05521	0.00751
0.86370	0.05545	0.99349
0.00126	0.94452	0.24991
0.00055	0.94483	0.74902
0.21122	0.97548	0.14002
0.92202	0.99056	0.41866
0.79109	0.97668	0.85727
0.08026	0.99032	0.58166
0.27067	0.40820	0.28817
0.21230	0.35237	0.37908
0.44376	0.33985	0.23352
0.38881	0.28518	0.33830
0.76236	0.25208	0.72156
0.76883	0.91095	0.29796
0.71254	0.85600	0.39834
0.93316	0.83922	0.20867
0.88030	0.78495	0.31941
0.25430	0.75159	0.72127
0.27179	0.59022	0.69020
0.21870	0.64500	0.58589
0.42520	0.66382	0.81759
0.37549	0.71842	0.70480
0.75292	0.75204	0.27771

0.78588	0.09002	0.66978
0.72926	0.14557	0.57423
0.93671	0.16426	0.80357
0.88324	0.21982	0.70052
0.24485	0.25113	0.27919
0.73765	0.40462	0.73030
0.72534	0.53303	0.67757
0.73396	0.56702	0.79488
0.80582	0.55231	0.71011
0.84077	0.57248	0.81684
0.83102	0.62630	-0.03829
0.80795	0.59364	0.07672
0.75517	0.60078	-0.04921
0.79393	0.41648	0.03966
0.71097	0.47181	0.12096
0.81065	0.40572	0.82497
0.87744	0.43910	0.82296
0.88474	0.39556	-0.09492
0.90351	0.42882	0.11073
0.91380	0.46899	0.01540
0.85740	0.47130	0.13891
0.93825	0.53362	0.77841
0.99574	0.52374	0.89426
0.91736	0.50069	0.89468
0.90893	0.57539	0.13883
0.97080	0.54123	0.10280
0.88570	0.52768	0.10485
0.94978	0.60510	-0.17244
0.93966	0.62045	-0.02122
0.00761	0.59093	-0.06130
0.43953	0.40004	0.12400
0.93876	0.10120	0.88042
0.36767	0.55806	0.79451
0.56510	0.60152	0.88304
0.13111	0.05659	0.78142
0.06698	0.09966	0.87803
0.62645	0.55866	0.78027
0.43666	0.39938	0.88164
0.86981	0.94313	0.78823
0.93359	0.90012	0.11609
0.37980	0.44318	0.22931
0.93365	0.89956	0.88186
0.38040	0.44228	0.77077
0.43579	0.60035	0.12427
0.87036	0.05625	0.21905
0.93528	0.09961	0.12522
0.36950	0.55705	0.21376
0.87369	0.94375	0.21870
0.56652	0.39709	0.10676
0.13179	0.94249	0.21106
0.06775	0.89933	0.11588
0.61121	0.43912	0.23642
0.19331	-0.00049	0.11049
0.94158	0.00258	0.34846
0.69338	0.49174	0.16634
0.44431	0.50284	0.34627
0.80728	0.99910	0.10505
0.06407	0.00046	0.34886
0.30889	0.50102	0.11404
0.56524	0.49676	0.35122
0.80932	0.00049	0.88804
0.06078	0.00274	0.65124
0.30800	0.49951	0.89426
0.55337	0.50409	0.65073
0.19476	0.99924	0.89328
0.93836	0.00096	0.65072
0.43286	0.49915	0.65505
0.00181	0.96088	0.17987
0.50269	0.47041	0.13108
0.99923	0.02918	0.13451
0.50453	0.53891	0.18162
0.00027	0.96114	0.81915
0.50092	0.47174	0.86624
0.00330	0.02943	0.86653
0.49812	0.53987	0.82138
0.07445	0.97081	-0.00077
0.60417	0.46215	0.99626
0.90265	0.03920	0.99513
0.42912	0.52912	0.00454
0.92763	0.97094	-0.00003
0.40158	0.46115	0.00102
0.09992	0.03898	0.00572
0.57674	0.53024	0.99751
0.56870	0.60095	0.11597
0.12038	0.05762	0.23355
0.06390	0.10066	0.12308
0.63642	0.55804	0.20416
0.56406	0.40184	0.86559

0.12856	0.94358	0.78009
0.06798	0.90000	0.88159
0.62306	0.44575	0.76222
0.43161	0.60110	0.89046
0.88384	0.05831	0.76666
0.69681	0.50139	0.86052
0.80480	0.53246	0.93890
0.77889	0.46733	-0.04863
0.76925	0.50491	0.85074
0.91201	-0.00029	0.15594
0.50081	0.56945	0.00247
0.08783	-0.00007	0.16089
0.59153	0.49986	0.15479
0.00139	0.06907	0.00103
0.50225	0.43126	0.99706
0.41627	0.49929	0.16314
0.41067	0.50066	0.84540
0.91462	0.00036	0.83886
0.09035	-0.00019	0.84364
0.58614	0.50101	0.83943
0.00093	0.93071	0.99891

POSCAR file for gd_p5_prime

POSCAR file from zrtcpb-gd-ipa-c.res: C: 146 F: 1 H: 126 O: 66 P: 1 ZR: 12
34.89200000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053

146 1 126 66 1 12

Direct

0.79291	0.88334	0.30188
0.65046	0.62488	0.24106
0.26326	0.64927	0.63617
0.29154	0.61779	0.30907
0.39813	0.34302	0.27580
0.23203	0.78318	0.43673
0.20694	0.81555	0.36643
0.15270	0.80970	0.29092
0.12430	0.83984	0.23014
0.23378	0.85220	0.37469
0.26588	0.34914	0.34294
0.11441	0.90876	0.18588
0.71676	0.62405	0.27510
0.14918	0.87666	0.24441
0.38297	0.59169	0.82156
0.20478	0.88257	0.31561
0.39946	0.40935	0.20063
0.72384	0.28140	0.43577
0.69768	0.31384	0.36820
0.64504	0.30857	0.28880
0.61768	0.33938	0.22998
0.72397	0.35047	0.38332
0.61073	0.40850	0.18867
0.88606	0.84302	0.25211
0.64239	0.37598	0.25005
0.69615	0.38142	0.32591
0.34966	0.62383	0.76047
0.36435	0.37720	0.25877
0.29800	0.38018	0.29210
0.74204	0.24809	0.37615
0.24914	0.74945	0.37834
0.25629	0.24981	0.62157
0.74261	0.75294	0.61936
0.25252	0.75118	0.62371
0.20690	0.18498	0.63104
0.75602	0.25212	0.62171
0.75172	0.75224	0.37420
0.24858	0.25111	0.37554
0.29134	0.61877	0.69613
0.76780	0.78551	0.43567
0.22977	0.21818	0.43673
0.20165	0.18574	0.37094
0.14386	0.19108	0.30430
0.11352	0.16052	0.24889
0.22956	0.14932	0.37687
0.23384	0.78396	0.56251
0.10582	0.09176	0.20234
0.13991	0.12398	0.26080
0.19853	0.11850	0.32389
0.79512	0.81782	0.36789
0.20747	0.81666	0.63094
0.14325	0.81334	0.67691
0.11398	0.84348	0.73650
0.24236	0.85053	0.64907
0.11331	0.90999	0.80710
0.23383	0.21752	0.56230

0.14773	0.87795	0.74770
0.21224	0.88138	0.70456
0.76274	0.85289	0.35893
0.73013	0.28326	0.56105
0.14247	0.18800	0.67621
0.70174	0.31633	0.62541
0.63315	0.31681	0.64363
0.60287	0.34789	0.69653
0.88933	0.91028	0.18936
0.73924	0.34781	0.66061
0.73029	0.71949	0.43236
0.60645	0.41232	0.78568
0.64022	0.38001	0.72546
0.70844	0.38009	0.70629
0.85495	0.87847	0.24939
0.77448	0.21881	0.56198
0.92284	0.57669	-0.18163
0.93963	0.54707	0.61883
0.95155	0.50761	0.80072
0.11302	0.15754	0.73414
0.80307	0.18667	0.62809
0.85875	0.19236	0.70011
0.88910	0.16180	0.75555
0.77707	0.14987	0.61695
0.70570	0.68699	0.36087
0.89842	0.09272	0.79776
0.86463	0.12500	0.73895
0.80795	0.11915	0.67055
0.24174	0.15103	0.64799
0.11298	0.09079	0.80443
0.14677	0.12304	0.74449
0.21141	0.11994	0.70168
0.72501	0.71989	0.55792
0.69778	0.68762	0.62525
0.26918	0.71739	0.56534
0.63956	0.68778	0.32461
0.64851	0.69431	0.71110
0.61936	0.66431	0.77171
0.71841	0.65017	0.60439
0.60511	0.59487	0.80677
0.63838	0.62700	0.74601
0.68815	0.62010	0.66245
0.76382	0.78580	0.56131
0.78972	0.81784	0.63259
0.84666	0.81149	0.70081
0.87669	0.84112	0.76158
0.61258	0.65736	0.26320
0.29391	0.68500	0.63614
0.76185	0.85424	0.63174
0.88712	0.90959	0.81160
0.80058	0.44773	0.77112
0.85084	0.87789	0.75392
0.91315	0.54056	0.74507
0.83967	0.52916	0.73603
0.79328	0.55973	0.69099
0.79264	0.88420	0.69028
0.85454	0.46804	0.08948
0.85659	0.81302	0.31198
0.88440	0.43097	1.04575
0.27523	0.28270	0.56039
0.90524	0.49978	0.08397
0.30235	0.31516	0.62717
0.35745	0.30952	0.70066
0.38677	0.34001	0.75814
0.27570	0.35180	0.61673
0.39520	0.40889	0.80195
0.35138	0.69002	0.70402
0.36172	0.37671	0.74219
0.74462	0.65542	0.33141
0.27175	0.28327	0.43475
0.30550	0.38248	0.67259
0.76741	0.21685	0.43687
0.79502	0.18418	0.36954
0.86185	0.18578	0.33683
0.30048	0.31558	0.36700
0.89151	0.15546	0.27864
0.75831	0.15167	0.34160
0.88937	0.09027	0.19580
0.37874	0.65985	0.76620
0.61718	0.59237	0.18152
0.85546	0.12231	0.25668
0.78876	0.12049	0.28854
0.36679	0.31277	0.33167
0.26752	0.71660	0.43956
0.29358	0.68374	0.37167
0.35538	0.68792	0.31642
0.38484	0.65755	0.25841
0.26111	0.64869	0.36364

0.38897	0.59002	0.19842
0.35386	0.62202	0.25707
0.71686	0.44668	0.90534
0.79304	0.34746	0.64794
0.54967	0.34798	0.71520
0.60368	0.29225	0.61570
0.74618	0.59851	0.25757
0.23827	0.90844	0.71585
0.29366	0.85275	0.61821
0.06406	0.84120	0.77385
0.11617	0.78669	0.66373
0.79700	0.65509	0.35646
0.28578	0.41133	0.66370
0.23097	0.35604	0.56385
0.43002	0.33628	0.81547
0.56117	0.65773	0.23291
0.37807	0.28085	0.70948
0.73857	0.24713	0.27866
0.60916	0.71260	0.34652
0.77237	0.91303	0.68622
0.71558	0.85919	0.58394
0.92158	0.83667	0.81410
0.86823	0.78293	0.70270
0.24878	0.74892	0.28057
0.70187	0.59065	0.64317
0.75840	0.64466	0.54114
0.58058	0.66693	0.83841
0.63207	0.72353	0.72737
0.23754	0.09284	0.71088
0.29300	0.14890	0.61688
0.06294	0.15958	0.77090
0.11529	0.21464	0.66378
0.71541	0.41023	0.33867
0.76675	0.35442	0.44139
0.57614	0.33608	0.16844
0.62453	0.28000	0.27661
0.22433	0.91144	0.32506
0.27790	0.85686	0.42883
0.08137	0.83577	0.17229
0.13173	0.78108	0.28340
0.26727	0.58997	0.30643
0.21142	0.64561	0.40130
0.43289	0.66044	0.21419
0.38065	0.71543	0.32161
0.74035	0.75286	0.71706
0.76095	0.09437	0.27097
0.70563	0.15055	0.36459
0.94337	0.15658	0.25055
0.89055	0.21127	0.35838
0.25816	0.24971	0.71927
0.21926	0.08981	0.32974
0.27636	0.14534	0.42382
0.06841	0.16411	0.19633
0.12215	0.21957	0.29903
0.71472	0.52634	0.13334
0.57443	0.50132	0.56995
0.28811	0.52285	0.86836
0.42952	0.50165	0.43058
0.50463	0.49865	0.35730
0.58862	0.47290	0.36333
0.49845	0.50158	0.64103
0.41727	0.47371	0.63330
0.36417	0.44479	0.00347
0.50441	0.55410	0.25469
0.49771	0.55632	0.74870
0.64826	0.45103	0.98107
0.30618	0.50057	0.00851
0.29448	0.52421	0.14700
0.08020	0.02513	0.37863
0.21849	0.02186	0.86372
0.19783	0.99915	0.00553
0.99566	0.00230	0.35528
0.78414	0.02162	0.13296
0.80511	0.99979	0.99333
0.92331	0.02607	0.61981
0.00718	0.00270	0.64271
0.13925	0.05554	0.00713
0.86405	0.05591	0.99187
0.00130	0.94493	0.24909
0.00133	0.94532	0.74797
0.21094	0.97549	0.14009
0.92158	0.99105	0.41754
0.79153	0.97736	0.85430
0.08114	0.99068	0.58116
0.27203	0.40708	0.27710
0.21341	0.35117	0.36680
0.44963	0.34097	0.24607
0.39389	0.28644	0.34991

0.75973	0.25312	0.71917
0.76901	0.91121	0.29639
0.71314	0.85607	0.39685
0.93412	0.83993	0.20800
0.88157	0.78547	0.31845
0.25317	0.75174	0.72146
0.26878	0.59049	0.69300
0.21668	0.64548	0.58835
0.42399	0.66322	0.81848
0.37541	0.71794	0.70481
0.75502	0.75221	0.27661
0.78869	0.09022	0.66107
0.73197	0.14555	0.56514
0.93280	0.16560	0.81170
0.87908	0.22109	0.70924
0.24653	0.25126	0.27785
0.73701	0.40559	0.72854
0.77434	0.42084	0.78811
0.78843	0.45673	0.67974
0.85417	0.44254	0.77961
0.83798	0.50454	0.67512
0.80796	0.57003	0.60197
0.79285	0.58425	-0.24762
0.74245	0.54853	0.68452
0.84044	0.46396	0.18432
0.72447	0.48518	0.06206
0.84877	0.40738	1.04940
0.90318	0.43345	0.95372
0.92654	0.42383	1.10403
0.94713	0.49273	0.14294
0.92457	0.50314	-0.00735
0.88404	0.52707	0.11360
0.94532	0.48132	0.74791
0.00488	0.51424	0.80360
0.93475	0.50164	0.89238
0.90173	0.60175	-0.22701
0.97613	0.58214	-0.16871
0.89966	0.57431	-0.09295
0.93214	0.52181	0.56189
0.91583	0.57163	0.57517
-0.00672	0.55282	0.62220
0.44322	0.40006	0.12437
0.93891	0.10177	0.87974
0.36550	0.55579	0.79649
0.56194	0.60376	0.88497
0.13174	0.05697	0.78110
0.06737	0.10005	0.87707
0.62108	0.56136	0.77654
0.43697	0.39978	0.88152
0.87054	0.94364	0.78659
0.93377	0.90061	0.11478
0.38314	0.44311	0.22920
0.93398	0.89999	0.88079
0.38035	0.44272	0.77141
0.43508	0.59972	0.12761
0.86996	0.05641	0.21700
0.93558	0.09978	0.12491
0.37229	0.55588	0.22279
0.87368	0.94421	0.21710
0.57104	0.39966	0.10570
0.13166	0.94271	0.21115
0.06787	0.89962	0.11534
0.62493	0.44213	0.22204
0.19344	0.99964	0.11060
0.94134	0.00292	0.34727
0.70075	0.49969	0.13325
0.45015	0.50050	0.35174
0.80738	0.99935	0.10241
0.06384	0.00078	0.34837
0.31144	0.50013	0.11596
0.57210	0.49831	0.34332
0.80992	0.00105	0.88555
0.06158	0.00307	0.65070
0.30801	0.49951	0.89904
0.55284	0.50519	0.64698
0.19510	0.99951	0.89336
0.93913	0.00154	0.64952
0.43136	0.49963	0.65300
0.00182	0.96126	0.17900
0.50477	0.47095	0.12974
0.99933	0.02954	0.13348
0.50512	0.53895	0.18196
0.00087	0.96157	0.81824
0.50141	0.47240	0.86548
0.00389	0.02986	0.86575
0.49643	0.54075	0.82055
0.07477	0.97118	0.99875
0.60525	0.46354	-0.00787

0.90296	0.03963	0.99362
0.42889	0.52912	0.00544
0.92802	0.97138	-0.00146
0.40300	0.46120	0.00159
0.10023	0.03934	0.00531
0.57549	0.53126	-0.00408
0.56771	0.60142	0.11814
0.12030	0.05792	0.23337
0.06422	0.10094	0.12235
0.63822	0.55870	0.19949
0.56462	0.40206	0.86442
0.12923	0.94389	0.77986
0.06832	0.90037	0.88090
0.62128	0.44619	0.75801
0.42841	0.60095	0.89402
0.88460	0.05898	0.76496
0.70879	0.50773	0.84706
0.81614	0.51766	0.85284
0.79183	0.47833	1.03539
0.76711	0.48188	0.87987
0.91206	0.00010	0.15443
0.50004	0.57010	0.00264
0.08786	0.00029	0.16062
0.59156	0.50057	0.15292
0.00165	0.06958	0.00008
0.50398	0.43163	0.99458
0.41684	0.49941	0.16169
0.41181	0.50064	0.84442
0.91514	0.00091	0.83732
0.09098	0.00022	0.84322
0.58775	0.50289	0.83586
0.00131	0.93110	0.99807

POSCAR file for gd_product

POSCAR file from zrtepb-gd-ipa-c.res: C: 146 F: 1 H: 126 O: 66 P: 1 ZR: 12
34.8920000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053

146 1 126 66 1 12

Direct

0.79297	0.88394	0.30048
0.64648	0.62649	0.24419
0.26460	0.64925	0.63616
0.29169	0.61759	0.30786
0.40070	0.34367	0.27711
0.23225	0.78304	0.43504
0.20727	0.81548	0.36490
0.15396	0.80962	0.28732
0.12568	0.83983	0.22660
0.23335	0.85225	0.37547
0.26677	0.34765	0.33482
0.11505	0.90886	0.18461
0.71489	0.62871	0.25898
0.14977	0.87673	0.24308
0.38759	0.59201	0.81538
0.20448	0.88268	0.31643
0.39883	0.40907	0.19371
0.71903	0.27934	0.43139
0.69464	0.31206	0.36300
0.64506	0.30718	0.27745
0.61850	0.33844	0.21977
0.71945	0.34868	0.38496
0.60933	0.40781	0.18811
0.88684	0.84365	0.25508
0.64110	0.37499	0.24705
0.69248	0.38004	0.32843
0.35329	0.62403	0.75565
0.36499	0.37681	0.25374
0.29788	0.37877	0.28264
0.73983	0.24642	0.37282
0.25008	0.74947	0.37650
0.25790	0.25008	0.62044
0.74225	0.75353	0.62025
0.25223	0.75088	0.62198
0.20689	0.18548	0.63031
0.75005	0.25079	0.61924
0.74972	0.75353	0.37459
0.25023	0.25089	0.37438
0.29389	0.61881	0.69465
0.76700	0.78647	0.43665
0.23025	0.21835	0.43625
0.20184	0.18585	0.37109
0.14624	0.19147	0.29898
0.11600	0.16093	0.24327
0.22767	0.14909	0.38261

0.23337	0.78365	0.56081
0.10652	0.09195	0.20110
0.14035	0.12415	0.26017
0.19678	0.11834	0.32909
0.79500	0.81870	0.36914
0.20675	0.81638	0.62891
0.14154	0.81376	0.67048
0.11246	0.84399	0.72996
0.24267	0.84966	0.65078
0.11352	0.90998	0.80543
0.23433	0.21794	0.56169
0.14746	0.87788	0.74529
0.21283	0.88065	0.70605
0.76246	0.85363	0.35776
0.72281	0.28121	0.55688
0.14032	0.18688	0.66467
0.69427	0.31449	0.61904
0.62580	0.32065	0.61433
0.59795	0.35278	0.66565
0.88993	0.91062	0.18907
0.73418	0.34125	0.67628
0.72747	0.72096	0.43269
0.60764	0.41323	0.78031
0.63866	0.38033	0.71739
0.70685	0.37442	0.72240
0.85547	0.87900	0.24984
0.77166	0.21795	0.56057
0.92594	0.56629	0.97039
0.93023	0.58390	0.75452
0.94740	0.51689	0.81631
0.11112	0.15630	0.72233
0.80106	0.18621	0.62751
0.85428	0.19267	0.70467
0.88559	0.16243	0.76019
0.77822	0.14890	0.61151
0.70160	0.68872	0.36195
0.89918	0.09317	0.79709
0.86441	0.12520	0.73888
0.80993	0.11857	0.66554
0.24383	0.15294	0.65673
0.11393	0.09078	0.80270
0.14738	0.12312	0.74238
0.21392	0.12154	0.70948
0.72347	0.72082	0.55827
0.69778	0.68792	0.62493
0.26961	0.71725	0.56343
0.63312	0.68638	0.34569
0.65127	0.69385	0.71609
0.62414	0.66332	0.77708
0.71772	0.65062	0.59876
0.61137	0.59399	0.81053
0.64283	0.62621	0.74753
0.69008	0.61999	0.65856
0.76350	0.78644	0.56230
0.78961	0.81834	0.63365
0.84594	0.81184	0.70336
0.87607	0.84147	0.76386
0.60588	0.65599	0.28462
0.29522	0.68498	0.63390
0.76232	0.85492	0.63122
0.88746	0.91001	0.81139
0.80077	0.46008	0.76231
0.85088	0.87836	0.75449
0.90937	0.55339	0.84384
0.83420	0.54571	0.83195
0.79032	0.57948	0.85973
0.79319	0.88483	0.68955
0.78270	0.42217	0.06505
0.85707	0.81386	0.31552
0.82078	0.40003	-0.02786
0.27771	0.28265	0.55860
0.82536	0.43251	0.17110
0.30530	0.31529	0.62417
0.35984	0.30980	0.69897
0.38949	0.33408	0.75498
0.27958	0.35203	0.61062
0.39906	0.40954	0.79463
0.35379	0.69015	0.69853
0.36532	0.37723	0.73609
0.74239	0.66033	0.31450
0.27425	0.28294	0.43309
0.30970	0.38290	0.66491
0.76623	0.21582	0.43530
0.79566	0.18345	0.36951
0.86406	0.18351	0.34981
0.30298	0.31514	0.36473
0.89423	0.15342	0.29134
0.75798	0.15263	0.32982

0.89060	0.09012	0.19536
0.38229	0.66010	0.75968
0.61358	0.59388	0.18541
0.85676	0.12190	0.25727
0.78862	0.12145	0.27733
0.37018	0.31343	0.33454
0.26845	0.71657	0.43763
0.29424	0.68369	0.36945
0.35506	0.68796	0.31071
0.38382	0.65755	0.25154
0.26199	0.64849	0.36374
0.38753	0.58985	0.19260
0.35309	0.62192	0.25235
0.67022	0.42593	1.01456
0.78775	0.33654	0.68069
0.54419	0.35673	0.66635
0.59430	0.29962	0.57007
0.74644	0.60566	0.22593
0.23977	0.90727	0.72027
0.29455	0.85133	0.62292
0.06179	0.84220	0.76415
0.11355	0.78762	0.65413
0.79614	0.66254	0.32548
0.29067	0.41181	0.65342
0.23546	0.35624	0.55605
0.43237	0.33681	0.81327
0.55253	0.65413	0.26901
0.37980	0.28106	0.71025
0.73844	0.24538	0.27515
0.60139	0.70878	0.38242
0.77351	0.91377	0.68419
0.71651	0.85992	0.58209
0.92054	0.83696	0.81744
0.86696	0.78315	0.70645
0.25009	0.74905	0.27870
0.70440	0.59074	0.63748
0.75521	0.64571	0.53004
0.58730	0.66739	0.84762
0.63533	0.72292	0.73648
0.24199	0.09545	0.72579
0.29639	0.15202	0.63291
0.05939	0.15723	0.75128
0.11134	0.21236	0.64435
0.71009	0.40888	0.34692
0.75969	0.35233	0.44894
0.57900	0.33550	0.15386
0.62597	0.27857	0.25980
0.22338	0.91162	0.32773
0.27667	0.88569	0.43160
0.08346	0.83572	0.16715
0.13357	0.78091	0.27798
0.26757	0.58971	0.30676
0.21292	0.64536	0.40393
0.43108	0.66055	0.20459
0.38016	0.71555	0.31400
0.74101	0.75320	0.71801
0.75984	0.09651	0.25062
0.70431	0.15275	0.34386
0.94737	0.15351	0.27235
0.89346	0.20767	0.38111
0.25972	0.25013	0.71815
0.21595	0.08941	0.33909
0.27262	0.14473	0.43476
0.07257	0.16476	0.18646
0.12609	0.22021	0.28934
0.70486	0.52967	0.19067
0.58209	0.49844	0.57675
0.29279	0.52452	0.85943
0.42540	0.50526	0.42546
0.49976	0.49789	0.35624
0.58474	0.47253	0.36529
0.50668	0.50342	0.64083
0.42447	0.47508	0.62585
0.36557	0.44486	0.99456
0.50219	0.55373	0.25397
0.50412	0.55694	0.74872
0.64768	0.44807	0.98075
0.30720	0.50082	0.99180
0.29226	0.52321	0.13892
0.08124	0.02529	0.37726
0.21943	0.02164	0.86248
0.19865	0.99917	0.00459
0.99656	0.00249	0.35426
0.78462	0.02158	0.13148
0.80593	0.00026	0.99277
0.92436	0.02638	0.61877
0.00804	0.00289	0.64168
0.14020	0.05559	0.00595

0.86492	0.05609	0.99051
0.00210	0.94512	0.24807
0.00199	0.94552	0.74684
0.21182	0.97567	0.13942
0.92259	0.99135	0.41653
0.79183	0.97850	0.85146
0.08204	0.99096	0.58006
0.27062	0.40495	0.26311
0.21379	0.34879	0.35555
0.45292	0.34240	0.25108
0.39855	0.28795	0.35773
0.75220	0.25197	0.71686
0.76892	0.91172	0.29327
0.71250	0.85687	0.39413
0.93528	0.84046	0.21245
0.88215	0.78639	0.32384
0.25263	0.75137	0.71975
0.27135	0.59051	0.69293
0.21717	0.64538	0.59110
0.42831	0.66364	0.80970
0.37767	0.71812	0.69769
0.75245	0.75366	0.27695
0.79312	0.08930	0.65234
0.73513	0.14386	0.55496
0.92754	0.16684	0.82010
0.87211	0.22179	0.71781
0.24841	0.25084	0.27667
0.73744	0.39563	0.76710
0.82896	0.43434	0.78440
0.75959	0.45214	0.70320
0.83377	0.48057	0.71810
0.82523	0.53655	0.73819
0.79987	0.60357	0.79928
0.79796	0.58902	0.95237
0.73826	0.57087	0.84991
0.73965	0.40501	0.09439
0.73131	0.49085	0.12250
0.78986	0.39355	0.89409
0.86554	0.41563	0.94387
0.83724	0.37303	0.01220
0.84511	0.40664	0.21360
0.86722	0.45039	0.14174
0.79664	0.44849	0.23805
0.93828	0.50719	0.72402
0.00114	0.52164	0.82570
0.93288	0.49385	0.87774
0.90431	0.59436	0.99069
0.98006	0.56863	0.98144
0.90703	0.54571	0.03646
0.91723	0.57561	0.66241
0.90678	0.61154	0.77372
0.98437	0.58801	0.75781
0.44270	0.39985	0.11760
0.93952	0.10226	0.87939
0.37036	0.55803	0.79054
0.56733	0.60271	0.88736
0.13311	0.05702	0.78016
0.06814	0.10010	0.87479
0.62902	0.56029	0.78407
0.44083	0.40052	0.87424
0.87122	0.94408	0.78587
0.93433	0.90083	0.11450
0.38128	0.44269	0.22082
0.93436	0.90038	0.88055
0.38456	0.44338	0.76355
0.43302	0.59944	0.12046
0.87085	0.05624	0.21528
0.93688	0.09983	0.12503
0.37090	0.55573	0.21773
0.87437	0.94463	0.21614
0.57060	0.39944	0.10302
0.13236	0.94279	0.20995
0.06849	0.89974	0.11409
0.62195	0.44127	0.22490
0.19424	0.99976	0.10968
0.94239	0.00017	0.34622
0.69824	0.50202	0.18179
0.44562	0.49922	0.34854
0.80813	0.99950	0.10025
0.06493	0.00091	0.34723
0.31148	0.49989	0.10662
0.56785	0.49784	0.34479
0.81095	0.00187	0.88357
0.06248	0.00323	0.64980
0.31028	0.50035	0.88878
0.55997	0.50765	0.64864
0.19587	0.99942	0.89254
0.94006	0.00180	0.64834

0.43771	0.50081	0.64930
0.00264	0.96144	0.17796
0.50327	0.47052	0.12902
0.00026	0.02971	0.13222
0.50323	0.53881	0.18078
0.00164	0.96175	0.81717
0.50539	0.47316	0.86427
0.00489	0.03003	0.86467
0.50189	0.54094	0.81961
0.07551	0.97126	0.99768
0.60738	0.46358	0.99556
0.90395	0.03990	0.99238
0.43038	0.52920	0.00037
0.92884	0.97163	0.99736
0.40424	0.46140	0.99414
0.10112	0.03944	0.00410
0.57726	0.53104	0.99969
0.56444	0.60264	0.12079
0.12074	0.05812	0.23244
0.06541	0.10112	0.12035
0.63387	0.56023	0.20564
0.56845	0.40300	0.86317
0.12980	0.94386	0.77865
0.06861	0.90037	0.87937
0.62106	0.44720	0.75103
0.43352	0.60134	0.88670
0.88629	0.05938	0.76347
0.69958	0.50259	0.87046
0.81847	0.51572	0.91254
0.75386	0.45728	0.02123
0.76367	0.48076	0.89464
0.91297	0.00027	0.15319
0.50170	0.57015	0.00108
0.08866	0.00042	0.15947
0.58907	0.50004	0.15680
0.00249	0.06979	0.99867
0.50558	0.43188	0.99199
0.41471	0.49944	0.15610
0.41630	0.50095	0.83826
0.91588	0.00122	0.83598
0.09179	0.00026	0.84224
0.59329	0.50291	0.84017
0.00181	0.93123	0.99715

POSCAR files for meoh solvent

POSCAR file for gb_solvent

POSCAR file from zrtcpb-gb-meoh-c.res: C: 141 F: 1 H: 116 O: 66 P: 1 ZR: 12
34.89200000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 0.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053

141 1 116 66 1 12

Direct

0.79241	0.88298	0.30290
0.23283	0.21726	0.56326
0.73099	0.71857	0.43334
0.70676	0.68618	0.36127
0.64528	0.68996	0.30521
0.61745	0.65966	0.24429
0.85509	0.81246	0.31282
0.74089	0.65174	0.34983
0.61573	0.59195	0.18317
0.64952	0.62447	0.24179
0.71167	0.62073	0.29409
0.88497	0.84232	0.25296
0.20628	0.18472	0.63220
0.23449	0.78393	0.56323
0.20821	0.81656	0.63199
0.14565	0.81232	0.68428
0.11602	0.84241	0.74362
0.24129	0.85127	0.64389
0.11285	0.90964	0.80754
0.14773	0.87763	0.74871
0.21078	0.88193	0.69970
0.76184	0.85266	0.36010
0.73065	0.28259	0.56355
0.14340	0.18844	0.68354
0.70250	0.31539	0.62969
0.63451	0.31479	0.65399
0.60392	0.34578	0.70685
0.88923	0.90969	0.19058
0.73920	0.34764	0.66043

0.60562	0.41111	0.78904
0.64010	0.37877	0.73020
0.70784	0.37972	0.70631
0.85440	0.87791	0.25031
0.77450	0.21805	0.56255
0.11389	0.15794	0.74114
0.80337	0.18595	0.62825
0.86207	0.19116	0.69236
0.89218	0.16055	0.74785
0.77437	0.14977	0.62459
0.89771	0.09196	0.79834
0.86442	0.12426	0.73881
0.80502	0.11895	0.67804
0.23968	0.15008	0.64305
0.11202	0.09047	0.80462
0.14596	0.12280	0.74533
0.20921	0.11904	0.69677
0.72743	0.71856	0.55926
0.70089	0.68608	0.62709
0.26964	0.71729	0.56499
0.64694	0.69192	0.70391
0.61811	0.66171	0.76407
0.72599	0.64918	0.61484
0.60884	0.59246	0.80755
0.64158	0.62477	0.74616
0.69542	0.61873	0.67071
0.76394	0.78497	0.56273
0.78978	0.81705	0.63391
0.84736	0.81099	0.70061
0.87718	0.84070	0.76132
0.29485	0.68494	0.63519
0.76131	0.85330	0.63392
0.88660	0.90906	0.81265
0.79559	0.54009	0.74860
0.85058	0.87728	0.75484
0.90409	0.51364	0.03526
0.84830	0.54159	0.01735
0.83064	0.56364	0.12834
0.79195	0.88333	0.69224
0.75992	0.40934	0.07813
0.27300	0.28272	0.56101
0.30047	0.31512	0.62769
0.35788	0.30967	0.69541
0.38756	0.34008	0.75266
0.27215	0.35146	0.62275
0.39437	0.40871	0.80148
0.35231	0.69017	0.70304
0.36079	0.37656	0.74172
0.26926	0.28323	0.43533
0.30247	0.38212	0.67783
0.76665	0.21615	0.43755
0.79365	0.18360	0.36903
0.85781	0.18706	0.32298
0.29724	0.31552	0.36683
0.88762	0.15679	0.26481
0.75940	0.14943	0.35290
0.88909	0.08993	0.19573
0.38036	0.66004	0.76434
0.85460	0.12205	0.25531
0.79021	0.11852	0.29900
0.36132	0.31152	0.32076
0.26757	0.71659	0.43910
0.29338	0.68398	0.36982
0.35440	0.68862	0.31216
0.38359	0.65857	0.25197
0.26118	0.64885	0.36171
0.38796	0.59092	0.19187
0.35295	0.62297	0.25049
0.26482	0.64901	0.63477
0.29124	0.61833	0.30453
0.39247	0.34179	0.26470
0.23242	0.78321	0.43733
0.20708	0.81548	0.36708
0.15063	0.80981	0.29681
0.12204	0.83987	0.23604
0.23584	0.85172	0.37002
0.26436	0.35018	0.35218
0.11443	0.90843	0.18580
0.14906	0.87636	0.24489
0.38548	0.59173	0.81864
0.20673	0.88201	0.31073
0.39607	0.40922	0.20029
0.72287	0.28067	0.43843
0.69441	0.31262	0.37241
0.64249	0.30637	0.29188
0.61255	0.33674	0.23496
0.71712	0.34986	0.39112
0.60234	0.40619	0.19633

0.63353	0.37382	0.25932
0.68605	0.38029	0.33747
0.35188	0.62387	0.75810
0.36088	0.37701	0.25771
0.29646	0.38109	0.30070
0.74092	0.24747	0.37796
0.24910	0.74950	0.37849
0.25484	0.24970	0.62228
0.74414	0.75177	0.62062
0.25322	0.75105	0.62382
0.75696	0.25138	0.62302
0.75012	0.75187	0.37543
0.24684	0.25086	0.37636
0.29349	0.61859	0.69414
0.76651	0.78507	0.43693
0.22872	0.21783	0.43764
0.20078	0.18540	0.37159
0.14129	0.19045	0.30966
0.11104	0.15992	0.25402
0.23042	0.14940	0.37249
0.10539	0.09147	0.20219
0.13929	0.12372	0.26099
0.19951	0.11858	0.31925
0.79369	0.81745	0.36894
0.81098	0.47135	0.83027
0.79267	0.34802	0.64391
0.55125	0.34516	0.72979
0.60572	0.28952	0.63031
0.73615	0.59299	0.29167
0.23534	0.90960	0.70654
0.29150	0.85430	0.60835
0.06733	0.83950	0.78554
0.11997	0.78502	0.67593
0.79073	0.64917	0.38692
0.28149	0.41077	0.67301
0.22560	0.35545	0.57502
0.43238	0.33648	0.80605
0.56960	0.66223	0.19963
0.37980	0.28123	0.69992
0.73652	0.24657	0.28058
0.61889	0.71707	0.31214
0.77121	0.91206	0.68874
0.71480	0.85804	0.58671
0.92249	0.83648	0.81287
0.86956	0.78257	0.70144
0.24839	0.74907	0.28073
0.71167	0.58953	0.65486
0.76981	0.64440	0.55990
0.57599	0.66585	0.82415
0.62682	0.72068	0.71356
0.23406	0.09143	0.70139
0.28993	0.14736	0.60749
0.06498	0.16043	0.78246
0.11734	0.21563	0.67583
0.70250	0.40956	0.35206
0.75992	0.35458	0.44840
0.57229	0.33267	0.17116
0.62493	0.27729	0.27707
0.22784	0.91062	0.31576
0.28160	0.85607	0.41982
0.07743	0.83604	0.18229
0.12824	0.78146	0.29368
0.26742	0.59039	0.30189
0.21203	0.64543	0.40134
0.43129	0.66173	0.20671
0.37939	0.71621	0.31744
0.74232	0.75158	0.71837
0.76471	0.09120	0.29058
0.70839	0.14689	0.38505
0.93745	0.15912	0.22709
0.88451	0.21390	0.33478
0.25706	0.24959	0.71996
0.22148	0.09014	0.32127
0.27840	0.14574	0.41571
0.06463	0.16323	0.20510
0.11831	0.21865	0.30840
0.71579	0.51748	0.15564
0.57568	0.49651	0.57830
0.28717	0.52263	0.86264
0.41964	0.49831	0.41983
0.51027	0.49825	0.35703
0.57779	0.46955	0.36060
0.49466	0.50074	0.64448
0.42023	0.47263	0.63527
0.36229	0.44475	0.00205
0.50181	0.55359	0.25475
0.50013	0.55491	0.74834
0.64688	0.44795	0.99411

0.30474	0.50102	0.01564
0.29641	0.52649	0.14243
0.08078	0.02476	0.37827
0.21747	0.02188	0.86303
0.19742	0.99904	0.00305
0.99632	0.00188	0.35556
0.78424	0.02130	0.13514
0.80471	0.99923	0.99545
0.92201	0.02554	0.62087
0.00589	0.00226	0.64311
0.13868	0.05523	0.00652
0.86350	0.05528	0.99310
0.00135	0.94453	0.24971
0.00062	0.94481	0.74851
0.21120	0.97560	0.13922
0.92230	0.99088	0.41895
0.79083	0.97664	0.85697
0.07990	0.99051	0.58067
0.27213	0.40878	0.29273
0.21323	0.35307	0.38332
0.44223	0.33898	0.22699
0.38691	0.28427	0.33116
0.76180	0.25229	0.72032
0.76887	0.91096	0.29754
0.71241	0.85617	0.39847
0.93296	0.83902	0.20876
0.87973	0.78479	0.31923
0.25414	0.75153	0.72157
0.27143	0.59019	0.69091
0.21821	0.64505	0.58719
0.42562	0.66357	0.81651
0.37575	0.71825	0.70429
0.75226	0.75211	0.27773
0.78349	0.09042	0.67448
0.72696	0.14610	0.57937
0.93808	0.16385	0.79830
0.88469	0.21945	0.69530
0.24456	0.25098	0.27869
0.73569	0.40567	0.72599
0.78236	0.53082	0.66015
0.77956	0.56860	0.76733
0.85406	0.54068	0.74949
0.91488	0.49730	-0.04635
0.89144	0.49344	0.10698
0.94938	0.52904	0.06107
0.86028	0.56163	-0.05576
0.87313	0.58090	0.15758
0.81742	0.54391	0.20121
0.78856	0.58283	0.11199
0.72131	0.39154	0.12230
0.71976	0.46268	0.08940
0.79672	0.41972	1.14784
0.78173	0.39129	1.00339
0.43981	0.39992	0.12393
0.93834	0.10113	0.87978
0.36766	0.55789	0.79374
0.56417	0.60163	0.88217
0.13064	0.05668	0.78062
0.06647	0.09967	0.87747
0.62673	0.55877	0.78180
0.43572	0.39951	0.88158
0.86970	0.94308	0.78790
0.93368	0.88997	0.11607
0.38011	0.44297	0.22953
0.93355	0.89954	0.88172
0.37983	0.44254	0.77056
0.43566	0.60028	0.12399
0.87035	0.05608	0.21866
0.93505	0.09941	0.12426
0.36969	0.55698	0.21422
0.87378	0.94362	0.21856
0.56721	0.39738	0.10680
0.13207	0.94234	0.21041
0.06780	0.89917	0.11575
0.61412	0.43958	0.23331
0.19318	0.99961	0.10968
0.94190	0.00244	0.34802
0.69337	0.49310	0.16470
0.44437	0.50267	0.34642
0.80724	0.99892	0.10482
0.06439	0.00038	0.34828
0.30883	0.50101	0.11496
0.56540	0.49639	0.35001
0.80913	0.00040	0.88783
0.06042	0.00266	0.65071
0.30772	0.49973	0.89501
0.55338	0.50448	0.65136
0.19467	0.99932	0.89257

0.93804	0.00101	0.65026
0.43351	0.49875	0.65417
0.00195	0.96080	0.17948
0.50266	0.47025	0.13115
0.99922	0.02911	0.13404
0.50430	0.53883	0.18132
0.00012	0.96109	0.81871
0.50017	0.47161	0.86631
0.00302	0.02937	0.86583
0.49778	0.53975	0.82100
0.07442	0.97077	-0.00134
0.60384	0.46225	0.99450
0.90247	0.03905	0.99470
0.42892	0.52901	0.00465
0.92755	0.97083	-0.00035
0.40118	0.46111	0.00155
0.09973	0.03898	0.00493
0.57661	0.53025	0.99662
0.56816	0.60116	0.11520
0.12028	0.05768	0.23289
0.06370	0.10070	0.12246
0.63507	0.55827	0.20526
0.56313	0.40112	0.86647
0.12843	0.94355	0.77968
0.06796	0.90000	0.88148
0.62046	0.44495	0.76006
0.43118	0.60091	0.89064
0.88315	0.05826	0.76637
0.69694	0.49942	0.84712
0.78773	0.52151	0.98392
0.72903	0.44133	0.02539
0.76810	0.50765	0.85617
0.91215	-0.00041	0.15554
0.91437	0.00025	0.83853
0.41029	0.50065	0.84613
0.41625	0.49918	0.16359
0.50207	0.43111	-0.00305
0.00114	0.06894	0.00040
0.59120	0.49999	0.15393
0.08790	-0.00011	0.16016
0.50071	0.56940	0.00212
0.09000	-0.00021	0.84304
0.58559	0.50073	0.83769
0.00094	0.93069	-0.00135

POSCAR file for gb_p5

POSCAR file from zrtcpb-gb-meoh-c.res: C: 141 F: 1 H: 116 O: 66 P: 1 ZR: 12
34.89200000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053

141 1 116 66 1 12

Direct

0.79262	0.88305	0.30283
0.23321	0.21729	0.56198
0.73143	0.71852	0.43318
0.70687	0.68600	0.36191
0.64493	0.68971	0.30748
0.61683	0.65944	0.24682
0.85533	0.81245	0.31045
0.74101	0.65159	0.34976
0.61489	0.59197	0.18393
0.64918	0.62435	0.24252
0.71170	0.62066	0.29360
0.88503	0.84247	0.25105
0.20656	0.18474	0.63088
0.23456	0.78429	0.56240
0.20822	0.81693	0.63114
0.14539	0.81273	0.68243
0.11565	0.84274	0.74193
0.24145	0.85156	0.64430
0.11272	0.90987	0.80722
0.14756	0.87790	0.74818
0.21086	0.88218	0.70019
0.76227	0.85260	0.35967
0.72979	0.28343	0.55975
0.14350	0.18841	0.68156
0.70168	0.31668	0.62402
0.63455	0.31544	0.65513
0.60421	0.34659	0.70778
0.88910	0.90997	0.19004
0.73745	0.34998	0.64648
0.60612	0.41268	0.78536
0.63947	0.38037	0.72408
0.70605	0.38214	0.69176
0.85447	0.87810	0.24960

0.77280	0.21853	0.56171
0.11400	0.15799	0.73958
0.80165	0.18644	0.62816
0.86006	0.19177	0.69312
0.89068	0.16123	0.74826
0.77358	0.15001	0.62347
0.89752	0.09244	0.79746
0.86384	0.12472	0.73818
0.80475	0.11924	0.67645
0.24016	0.15016	0.64291
0.11227	0.09066	0.80437
0.14628	0.12292	0.74490
0.20973	0.11920	0.69705
0.72716	0.71897	0.55904
0.70013	0.68688	0.62771
0.26908	0.71757	0.56436
0.64597	0.69349	0.70348
0.61617	0.66369	0.76402
0.72532	0.64989	0.61832
0.60540	0.59455	0.80810
0.63955	0.62663	0.74845
0.69461	0.61989	0.67628
0.76393	0.78531	0.56145
0.78979	0.81745	0.63244
0.84716	0.81129	0.69968
0.87700	0.84093	0.76072
0.29369	0.68514	0.63475
0.76145	0.85376	0.63257
0.88661	0.90932	0.81216
0.79436	0.53295	0.76956
0.85060	0.87758	0.75412
0.91843	0.52890	0.01828
0.84883	0.54434	0.00653
0.82664	0.56634	0.11549
0.79209	0.88372	0.69123
0.78082	0.42746	0.02813
0.27346	0.28273	0.55998
0.30059	0.31511	0.62700
0.35729	0.30957	0.69655
0.38689	0.34002	0.75368
0.27262	0.35152	0.62056
0.39446	0.40878	0.80004
0.35107	0.69013	0.70297
0.36060	0.37657	0.74115
0.26987	0.28336	0.43428
0.30277	0.38220	0.67588
0.76637	0.21657	0.43648
0.79372	0.18386	0.36900
0.85835	0.18712	0.32495
0.29812	0.31568	0.36605
0.88829	0.15686	0.26697
0.75925	0.14983	0.35139
0.88923	0.09022	0.19572
0.37844	0.65986	0.76462
0.85490	0.12228	0.25568
0.79014	0.11891	0.29776
0.36270	0.31187	0.32212
0.26670	0.71676	0.43851
0.29223	0.68394	0.36981
0.35374	0.68816	0.31353
0.38290	0.65782	0.25476
0.25960	0.64894	0.36184
0.38674	0.59024	0.19503
0.35182	0.62233	0.25359
0.26306	0.64939	0.63413
0.28970	0.61810	0.30637
0.39391	0.34207	0.26565
0.23214	0.78347	0.43656
0.20682	0.81577	0.36645
0.15084	0.81005	0.29504
0.12227	0.84013	0.23430
0.23516	0.85211	0.37062
0.26498	0.35017	0.34946
0.11417	0.90877	0.18556
0.14879	0.87671	0.24450
0.38259	0.59166	0.81935
0.20603	0.88244	0.31153
0.39690	0.40928	0.19803
0.72412	0.28150	0.43432
0.69760	0.31362	0.36573
0.64394	0.30791	0.28880
0.61550	0.33844	0.23016
0.72403	0.35033	0.37774
0.60701	0.40760	0.18880
0.63988	0.37520	0.24859
0.69482	0.38104	0.32135
0.34937	0.62384	0.75833
0.36192	0.37710	0.25635

0.29714	0.38104	0.29776
0.74208	0.24802	0.37534
0.24837	0.74967	0.37773
0.25521	0.24971	0.62116
0.74379	0.75230	0.61988
0.25318	0.75142	0.62315
0.75456	0.25202	0.62086
0.75122	0.75159	0.37465
0.24727	0.25104	0.37517
0.29108	0.61883	0.69382
0.76715	0.78500	0.43562
0.22912	0.21797	0.43637
0.20115	0.18553	0.37040
0.14187	0.19062	0.30790
0.11150	0.16006	0.25262
0.23052	0.14945	0.37218
0.10540	0.09157	0.20195
0.13942	0.12379	0.26053
0.19948	0.11860	0.31934
0.79417	0.81736	0.36749
0.80221	0.46434	0.79838
0.79038	0.35097	0.62530
0.55240	0.34546	0.73631
0.60619	0.28953	0.63724
0.73678	0.59311	0.28986
0.23556	0.90977	0.70786
0.29187	0.85454	0.60974
0.06675	0.83980	0.78301
0.11959	0.78550	0.67317
0.79092	0.64891	0.38648
0.28210	0.41090	0.67004
0.22650	0.35557	0.57152
0.43140	0.33640	0.80789
0.56858	0.66198	0.20356
0.37886	0.28105	0.70221
0.73883	0.24699	0.27781
0.61836	0.71674	0.31542
0.77137	0.91244	0.68783
0.71490	0.85856	0.58554
0.92211	0.83654	0.81266
0.86915	0.78283	0.70084
0.24745	0.74919	0.27997
0.71227	0.59066	0.66629
0.76959	0.64471	0.56480
0.57349	0.66825	0.82255
0.62639	0.72243	0.71141
0.23479	0.09167	0.70252
0.29056	0.14748	0.60802
0.06491	0.16052	0.78019
0.11726	0.21552	0.67306
0.71383	0.40998	0.33248
0.76803	0.35454	0.43249
0.57321	0.33479	0.17050
0.62354	0.27923	0.27863
0.22689	0.91109	0.31754
0.28065	0.85651	0.42120
0.07801	0.83618	0.17972
0.12881	0.78162	0.29082
0.26544	0.59028	0.30385
0.21010	0.64584	0.40029
0.43088	0.66069	0.21026
0.37908	0.71564	0.31867
0.74161	0.75228	0.71761
0.76434	0.09172	0.28805
0.70793	0.14744	0.38200
0.93848	0.15912	0.23082
0.88525	0.21383	0.33800
0.25730	0.24961	0.71886
0.22134	0.09013	0.32203
0.27841	0.14578	0.41573
0.06519	0.16346	0.20347
0.11912	0.21888	0.30584
0.71544	0.52266	0.14616
0.57454	0.50080	0.57096
0.28743	0.52319	0.86503
0.42498	0.50044	0.42849
0.50077	0.49857	0.35716
0.58346	0.47199	0.36397
0.49917	0.50157	0.64108
0.41709	0.47357	0.63269
0.36245	0.44478	0.00014
0.50095	0.55388	0.25479
0.49831	0.55614	0.74825
0.64869	0.45234	0.98287
0.30441	0.50058	0.00305
0.29228	0.52423	0.14335
0.08061	0.02493	0.37840
0.21765	0.02193	0.86291

0.19734	0.99913	0.00381
0.99605	0.00208	0.35564
0.78422	0.02162	0.13488
0.80472	0.99953	0.99490
0.92202	0.02587	0.62056
0.00605	0.00254	0.64277
0.13870	0.05546	0.00636
0.86346	0.00575	0.99249
0.00108	0.94481	0.24948
0.00051	0.94504	0.74827
0.21095	0.97569	0.13933
0.92187	0.99115	0.41864
0.79087	0.97685	0.85669
0.08007	0.99057	0.58087
0.27249	0.40859	0.28827
0.21357	0.35300	0.37920
0.44404	0.33930	0.22946
0.38862	0.28480	0.33428
0.75809	0.25309	0.71836
0.76894	0.91100	0.29813
0.71289	0.85596	0.39835
0.93291	0.83921	0.20644
0.87995	0.78476	0.31585
0.25424	0.75191	0.72090
0.26854	0.59055	0.69043
0.21654	0.64566	0.58610
0.42370	0.66313	0.81695
0.37504	0.71806	0.70410
0.75378	0.75158	0.27696
0.78370	0.09960	0.67174
0.72647	0.14601	0.57748
0.93638	0.16487	0.79911
0.88215	0.22209	0.69712
0.24506	0.25119	0.27748
0.73301	0.40887	0.70424
0.77207	0.52562	0.68307
0.77534	0.56114	0.79554
0.84854	0.53413	0.75851
0.93161	0.51113	0.94078
0.92272	0.51137	0.09949
0.95451	0.55233	0.02445
0.84557	0.56288	0.92749
0.86142	0.58970	0.13466
0.82515	0.54747	0.19426
0.77725	0.57896	0.10211
0.74259	0.41038	0.07494
0.71781	0.48098	0.08082
0.81718	0.43817	1.09810
0.80459	0.40867	0.95720
0.44033	0.40003	0.12112
0.93830	0.10155	0.87882
0.36500	0.55778	0.79423
0.56142	0.60359	0.88474
0.13082	0.05684	0.78057
0.06668	0.09989	0.87710
0.62136	0.56102	0.77827
0.43660	0.39967	0.87897
0.86978	0.94335	0.78750
0.93355	0.90031	0.11543
0.38073	0.44303	0.22712
0.93349	0.89977	0.88134
0.37954	0.44259	0.76948
0.43338	0.59981	0.12515
0.87046	0.05634	0.21829
0.93513	0.09967	0.12405
0.36942	0.55618	0.21883
0.87360	0.94388	0.21807
0.56801	0.39876	0.10470
0.13173	0.94269	0.21022
0.06754	0.89955	0.11541
0.61976	0.44113	0.22449
0.19307	0.99970	0.10957
0.94167	0.00267	0.34784
0.69688	0.49701	0.15010
0.44618	0.50099	0.35011
0.80725	0.99926	0.10445
0.06411	0.00062	0.34813
0.30924	0.50010	0.11258
0.56790	0.49771	0.34527
0.80919	0.00062	0.88749
0.06052	0.00292	0.65051
0.30668	0.49963	0.89554
0.55298	0.50522	0.64776
0.19455	0.99947	0.89244
0.93810	0.00136	0.64997
0.43097	0.49954	0.65219
0.00169	0.96111	0.17932
0.50188	0.47067	0.12930

0.99908	0.02939	0.13334
0.50213	0.53883	0.18187
0.00007	0.96136	0.81837
0.50086	0.47248	0.86495
0.00305	0.02966	0.86573
0.49625	0.54065	0.82022
0.07428	0.97104	0.99845
0.60405	0.46350	0.99420
0.90234	0.03945	0.99413
0.42754	0.52912	0.00353
0.92753	0.97120	-0.00076
0.40127	0.46120	-0.00113
0.09973	0.03923	0.00472
0.57434	0.53120	0.99759
0.56615	0.60118	0.11879
0.12014	0.05776	0.23270
0.06370	0.10079	0.12223
0.63478	0.55817	0.20368
0.56411	0.40244	0.86378
0.12835	0.94378	0.77955
0.06783	0.90023	0.88115
0.62158	0.44662	0.75904
0.42798	0.60092	0.89186
0.88319	0.05867	0.76564
0.69162	0.50433	0.85875
0.80398	0.51261	0.99414
0.74148	0.45787	0.97649
0.76549	0.49686	0.87628
0.91198	0.99994	0.15528
0.91435	0.00065	0.83804
0.41128	0.50062	0.84252
0.41392	0.49939	0.15961
0.50259	0.43159	0.99357
0.00104	0.06938	-0.00013
0.58797	0.50026	0.15525
0.08767	0.00018	0.16005
0.49892	0.57002	0.00217
0.09011	0.00007	0.84287
0.58752	0.50275	0.83788
0.00080	0.93097	0.99830

POSCAR file for gb_p5_prime

POSCAR file from zrtcpb-gb-meoh-c.res: C: 141 F: 1 H: 116 O: 66 P: 1 ZR: 12
34.8920000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053

141 1 116 66 1 12

Direct

0.79256	0.88312	0.30281
0.23358	0.21729	0.56195
0.73117	0.71862	0.43384
0.70636	0.68612	0.36276
0.64411	0.68981	0.30948
0.61591	0.65958	0.24884
0.85522	0.81252	0.31044
0.74070	0.65183	0.34940
0.61407	0.59227	0.18472
0.64854	0.62460	0.24313
0.71140	0.62097	0.29287
0.88488	0.84252	0.25086
0.20684	0.18476	0.63087
0.23430	0.78444	0.56221
0.20805	0.81711	0.63090
0.14484	0.81309	0.68075
0.11522	0.84312	0.74040
0.24176	0.88514	0.64542
0.11275	0.91007	0.80693
0.14762	0.87811	0.74795
0.21126	0.88222	0.70126
0.76227	0.85269	0.35984
0.73096	0.28391	0.56008
0.14340	0.18835	0.68001
0.70316	0.31707	0.62520
0.63543	0.31650	0.65180
0.60544	0.34743	0.70615
0.88895	0.91002	0.18966
0.74008	0.34938	0.65478
0.60755	0.41257	0.78952
0.64191	0.38034	0.72954
0.70941	0.38133	0.70328
0.85434	0.87816	0.24932
0.77350	0.21895	0.56170
0.11380	0.15796	0.73801
0.80182	0.18681	0.62833
0.85947	0.19218	0.69540

0.88979	0.16159	0.75076
0.77399	0.15034	0.62206
0.89718	0.09270	0.79761
0.86338	0.12503	0.73888
0.80485	0.11956	0.67541
0.24070	0.15032	0.64424
0.11226	0.09079	0.80417
0.14638	0.12301	0.74469
0.21016	0.11935	0.69826
0.72716	0.71902	0.55966
0.70031	0.68688	0.62851
0.26871	0.71772	0.56463
0.64604	0.69340	0.70404
0.61641	0.66360	0.76484
0.72579	0.64993	0.61973
0.60576	0.59453	0.80958
0.64011	0.62658	0.75003
0.69538	0.61994	0.67829
0.76389	0.78539	0.56169
0.78965	0.81757	0.63262
0.84705	0.81143	0.69978
0.87687	0.84111	0.76068
0.29330	0.68529	0.63508
0.76125	0.85386	0.63266
0.88653	0.90950	0.81175
0.82938	0.46434	0.78698
0.85044	0.87775	0.75397
0.90505	0.55728	-0.15960
0.83608	0.55044	-0.20701
0.79924	0.58684	-0.23522
0.79189	0.88387	0.69115
0.85510	0.48528	0.09456
0.27412	0.28266	0.55998
0.30127	0.31508	0.62673
0.35735	0.30956	0.69787
0.38687	0.34007	0.75478
0.27381	0.35159	0.61845
0.39475	0.40894	0.79953
0.35050	0.69034	0.70372
0.36108	0.37669	0.74055
0.27031	0.28329	0.43435
0.30385	0.38231	0.67363
0.76685	0.21697	0.43652
0.79407	0.18420	0.36910
0.85920	0.18708	0.32725
0.29842	0.31563	0.36608
0.88903	0.15676	0.26937
0.75906	0.15046	0.34965
0.88913	0.09038	0.19571
0.37790	0.66011	0.76539
0.85500	0.12246	0.25611
0.78982	0.11943	0.29629
0.36355	0.31225	0.32463
0.26638	0.71687	0.43882
0.29186	0.68398	0.37040
0.35365	0.68804	0.31502
0.38265	0.65766	0.25632
0.25889	0.64912	0.36182
0.38591	0.59022	0.19545
0.35118	0.62230	0.25439
0.26288	0.64949	0.63412
0.28885	0.61821	0.30648
0.39441	0.34251	0.26791
0.23189	0.78358	0.43642
0.20671	0.81586	0.36612
0.15134	0.81006	0.29325
0.12284	0.84012	0.23238
0.23454	0.85232	0.37159
0.26440	0.34971	0.34709
0.11408	0.90883	0.18509
0.14883	0.87679	0.24380
0.38251	0.59187	0.81944
0.20551	0.88261	0.31224
0.39605	0.40935	0.19736
0.72478	0.28192	0.43478
0.69809	0.31407	0.36664
0.64463	0.30828	0.28933
0.61588	0.33878	0.23115
0.72411	0.35084	0.37945
0.60655	0.40792	0.19067
0.63994	0.37559	0.24996
0.69481	0.38149	0.32284
0.34910	0.62403	0.75868
0.36144	0.37716	0.25614
0.29620	0.38068	0.29536
0.74253	0.24844	0.37557
0.24815	0.74975	0.37784
0.25579	0.24964	0.62114

0.74386	0.75239	0.62027
0.25286	0.75162	0.62316
0.75582	0.25251	0.62094
0.75097	0.75166	0.37516
0.24750	0.25105	0.37522
0.29097	0.61895	0.69379
0.76708	0.78509	0.43590
0.22930	0.21799	0.43640
0.20124	0.18562	0.37032
0.14245	0.19088	0.30648
0.11203	0.16037	0.25104
0.23013	0.14943	0.37318
0.10530	0.09178	0.20159
0.13943	0.12399	0.26004
0.19906	0.11864	0.32009
0.79410	0.81742	0.36762
0.74808	0.44368	0.90088
0.79335	0.34985	0.63628
0.55299	0.34681	0.73065
0.60631	0.29125	0.62911
0.73677	0.59353	0.28770
0.23626	0.90968	0.70992
0.29243	0.85434	0.61183
0.06605	0.84035	0.78053
0.11872	0.78601	0.67032
0.79079	0.64921	0.38539
0.28355	0.41107	0.66631
0.22818	0.35565	0.56799
0.43088	0.33646	0.81029
0.56737	0.66206	0.20666
0.37852	0.28098	0.70510
0.73907	0.24742	0.27808
0.61743	0.71677	0.31831
0.77123	0.91260	0.68768
0.71469	0.85864	0.58562
0.92202	0.83680	0.81256
0.86906	0.78298	0.70088
0.24721	0.74921	0.28007
0.71334	0.59073	0.66880
0.77006	0.64480	0.56611
0.57360	0.66814	0.82305
0.62624	0.72230	0.71164
0.23536	0.09189	0.70469
0.29132	0.14772	0.61030
0.06444	0.16039	0.77758
0.11701	0.21537	0.67034
0.71364	0.41046	0.33410
0.76781	0.35512	0.43502
0.57367	0.33507	0.17137
0.62460	0.27954	0.27861
0.22588	0.91136	0.31927
0.27952	0.85683	0.42352
0.07900	0.83615	0.17670
0.12968	0.78154	0.28802
0.26430	0.59048	0.30342
0.20921	0.64618	0.39964
0.43078	0.66039	0.21232
0.37927	0.71542	0.32069
0.74170	0.75243	0.71800
0.76358	0.09243	0.28526
0.70743	0.14834	0.37876
0.93958	0.15875	0.23472
0.88653	0.21357	0.34183
0.25799	0.24950	0.71882
0.22049	0.09007	0.32356
0.27766	0.14562	0.41788
0.06606	0.16383	0.20084
0.12009	0.21924	0.30360
0.71472	0.52314	0.15104
0.57470	0.50161	0.57133
0.28760	0.52372	0.86420
0.42362	0.50204	0.42928
0.49881	0.49858	0.35824
0.58270	0.47251	0.36621
0.49954	0.50161	0.64149
0.41669	0.47404	0.63185
0.36193	0.44490	-0.00041
0.50000	0.55419	0.25526
0.49820	0.55637	0.74909
0.64734	0.45200	0.98657
0.30374	0.50075	0.00042
0.29074	0.52399	0.14280
0.08026	0.02504	0.37818
0.21765	0.02201	0.86313
0.19725	0.99929	0.00357
0.99574	0.00218	0.35514
0.78405	0.02171	0.13417
0.80460	0.99967	0.99406

0.92216	0.02613	0.62014
0.00618	0.00275	0.64258
0.13858	0.05555	0.00620
0.86336	0.05584	0.99223
0.00085	0.94496	0.24900
0.00054	0.94526	0.74796
0.21067	0.97582	0.13943
0.92165	0.99127	0.41832
0.79087	0.97704	0.85592
0.08002	0.99070	0.58062
0.27092	0.40798	0.28420
0.21265	0.35214	0.37526
0.44493	0.34010	0.23337
0.39009	0.28548	0.33870
0.75955	0.25356	0.71839
0.76895	0.91109	0.29822
0.71297	0.85610	0.39882
0.93273	0.83929	0.20609
0.87985	0.78483	0.31582
0.25398	0.75219	0.72090
0.26859	0.59063	0.69002
0.21648	0.64570	0.58577
0.42300	0.66344	0.81813
0.37429	0.71832	0.70522
0.75349	0.75160	0.27746
0.78412	0.09086	0.66954
0.72737	0.14636	0.57450
0.93499	0.16516	0.80308
0.88123	0.22066	0.70065
0.24513	0.25124	0.27755
0.73773	0.40716	0.72254
0.81905	0.43369	0.79274
0.81852	0.47350	0.69510
0.88207	0.46906	0.80750
0.92976	0.53020	0.86191
0.90255	0.57457	-0.07761
0.93553	0.57255	-0.22566
0.83825	0.53250	0.71237
0.82564	0.60354	-0.30352
0.79481	0.60449	-0.15411
0.74930	0.58069	-0.26992
0.85273	0.48583	0.19292
0.71704	0.48152	0.08571
0.88430	0.50994	0.06324
0.87949	0.45880	1.06562
0.43951	0.40008	0.12050
0.93805	0.10176	0.87895
0.36495	0.55798	0.79438
0.56154	0.60362	0.88568
0.13090	0.05695	0.78060
0.06655	0.10005	0.87661
0.62169	0.56095	0.78005
0.43694	0.39990	0.87839
0.86974	0.94355	0.78700
0.93343	0.90036	0.11504
0.37961	0.44307	0.22603
0.93347	0.89994	0.88085
0.37958	0.44274	0.76917
0.43233	0.59982	0.12514
0.87015	0.05650	0.21779
0.93505	0.09986	0.12410
0.36864	0.55616	0.21939
0.87345	0.94395	0.21765
0.56719	0.39902	0.10726
0.13150	0.94277	0.21003
0.06742	0.89961	0.11494
0.61923	0.44148	0.22617
0.19288	0.99987	0.10978
0.94138	0.00275	0.34739
0.69637	0.49744	0.15421
0.44461	0.50056	0.35081
0.80713	0.99936	0.10377
0.06386	0.00070	0.34791
0.30849	0.50014	0.11152
0.56671	0.49807	0.34655
0.80907	0.00084	0.88678
0.06058	0.00311	0.65027
0.30616	0.49993	0.89437
0.55317	0.50486	0.64874
0.19453	0.99956	0.89270
0.93809	0.00159	0.64959
0.43086	0.49989	0.65226
0.00150	0.96123	0.17880
0.50088	0.47085	0.13029
0.99890	0.02955	0.13309
0.50115	0.53901	0.18261
0.00004	0.96156	0.81809
0.50063	0.47251	0.86535

0.00296	0.02986	0.86537
0.49618	0.54076	0.82080
0.07420	0.97116	0.99826
0.60309	0.46373	0.99642
0.90230	0.03959	0.99377
0.42705	0.52926	0.00356
0.92737	0.97132	0.99873
0.40072	0.46134	0.99845
0.09954	0.03936	0.00455
0.57390	0.53136	0.99873
0.56519	0.60147	0.11991
0.11988	0.05796	0.23259
0.06366	0.10101	0.12174
0.63390	0.55845	0.20446
0.56477	0.40233	0.86656
0.12840	0.94399	0.77929
0.06779	0.90041	0.88071
0.62242	0.44651	0.76240
0.42806	0.60112	0.89161
0.88298	0.05895	0.76527
0.70424	0.49949	0.84615
0.79837	0.53151	0.88477
0.78903	0.48700	1.05078
0.77243	0.48772	0.89178
0.91179	0.00004	0.15477
0.91429	0.00084	0.83755
0.41122	0.50072	0.84242
0.41279	0.49952	0.15943
0.50219	0.43171	0.99457
0.00091	0.06957	0.99965
0.58687	0.50047	0.15694
0.08752	0.00030	0.15989
0.49844	0.57016	0.00271
0.09002	0.000021	0.84278
0.58718	0.50278	0.83927
0.00067	0.93108	0.99793

POSCAR file for gb_product

POSCAR file from zrtcpb-gb-meho-c.res: C: 141 F: 1 H: 116 O: 66 P: 1 ZR: 12
 34.89200000000000

0.5792995890490465	-0.0000450140396845	0.0007649282407427
-0.0000781726227076	1.00826756747799713	0.0000166934211398
0.0004256087542374	0.0000053656439079	0.3214078049098053

141 1 116 66 1 12

Direct

0.79340	0.88444	0.30370
0.23349	0.21785	0.56214
0.72854	0.72088	0.42862
0.70415	0.68903	0.35438
0.63809	0.69020	0.31805
0.61060	0.65976	0.25763
0.85603	0.81379	0.31291
0.74308	0.65763	0.32336
0.61353	0.59410	0.18290
0.64808	0.62706	0.23666
0.71480	0.62627	0.26791
0.88568	0.84359	0.25249
0.20642	0.18537	0.63090
0.23336	0.78400	0.56173
0.20708	0.81674	0.63016
0.14310	0.81334	0.67714
0.11383	0.84353	0.73653
0.24176	0.85073	0.64715
0.11292	0.91019	0.80593
0.14732	0.87812	0.74661
0.21163	0.88161	0.70250
0.76307	0.85420	0.36152
0.72915	0.28341	0.55957
0.14204	0.18841	0.67623
0.70105	0.31663	0.62319
0.63255	0.31773	0.64227
0.60307	0.34914	0.69492
0.88933	0.91076	0.18907
0.73932	0.34787	0.65792
0.60904	0.41345	0.78589
0.64124	0.38095	0.72372
0.70936	0.38024	0.70448
0.85502	0.87917	0.25004
0.77341	0.21895	0.56191
0.11252	0.15791	0.73382
0.80179	0.18687	0.62870
0.85792	0.19256	0.69956
0.88833	0.16202	0.75496
0.77534	0.15015	0.61891
0.89758	0.09298	0.79765
0.86351	0.12524	0.73938

0.80630	0.11944	0.67240
0.24114	0.15136	0.64729
0.11239	0.09107	0.80333
0.14616	0.12336	0.74368
0.21075	0.12024	0.70066
0.72195	0.72060	0.55405
0.69420	0.68804	0.61936
0.26867	0.71740	0.56426
0.64726	0.69437	0.70974
0.61955	0.66416	0.77139
0.71251	0.65051	0.59323
0.60805	0.59468	0.80922
0.63740	0.62686	0.74246
0.68341	0.62023	0.65199
0.76176	0.78635	0.56163
0.78772	0.81810	0.63419
0.84509	0.81169	0.70115
0.87552	0.84128	0.76151
0.29384	0.68502	0.63462
0.75981	0.85453	0.63435
0.88649	0.90975	0.81147
0.81509	0.45820	0.79396
0.84970	0.87807	0.75463
0.90957	0.55136	0.82860
0.83622	0.54398	0.81194
0.79642	0.58025	0.80632
0.79104	0.88442	0.69238
0.80747	0.44969	0.11060
0.27524	0.28299	0.55964
0.30280	0.31548	0.62591
0.35818	0.30979	0.69867
0.38830	0.34028	0.75480
0.27661	0.35221	0.61525
0.39854	0.40931	0.79551
0.35114	0.69029	0.70277
0.36396	0.37711	0.73794
0.27208	0.28332	0.43399
0.30732	0.38292	0.66944
0.76742	0.21699	0.43662
0.79521	0.18429	0.36978
0.86153	0.18635	0.33414
0.30052	0.31549	0.36532
0.89122	0.15604	0.27596
0.75899	0.15137	0.34472
0.88952	0.09052	0.19564
0.37945	0.66011	0.76347
0.85574	0.12253	0.25675
0.78952	0.12026	0.29146
0.36635	0.31254	0.32729
0.26706	0.71667	0.43851
0.29282	0.68379	0.37023
0.35484	0.68768	0.31557
0.38361	0.65733	0.25624
0.25955	0.64902	0.36064
0.38603	0.59006	0.19273
0.35169	0.62208	0.25291
0.26416	0.64903	0.63339
0.28925	0.61813	0.30472
0.39704	0.34266	0.26952
0.23167	0.78327	0.43595
0.20657	0.81566	0.36564
0.15190	0.80988	0.29112
0.12354	0.84002	0.23023
0.23381	0.85222	0.37291
0.26571	0.34904	0.34214
0.11420	0.90888	0.18481
0.14883	0.87678	0.24351
0.38600	0.59177	0.81527
0.20481	0.88260	0.31381
0.39728	0.40901	0.19357
0.72390	0.28151	0.43420
0.69755	0.31382	0.36638
0.64459	0.30830	0.28789
0.61624	0.33903	0.23026
0.72344	0.35054	0.38135
0.60746	0.40820	0.19171
0.64018	0.37574	0.25109
0.69448	0.38141	0.32547
0.35152	0.62382	0.75600
0.36308	0.37681	0.25320
0.29719	0.37992	0.28931
0.74270	0.24824	0.37511
0.24874	0.74957	0.37742
0.25594	0.25022	0.62112
0.73963	0.75331	0.61751
0.25194	0.75115	0.62278
0.75452	0.25229	0.62104
0.75105	0.75372	0.37269

0.24903	0.25106	0.37506
0.29320	0.61851	0.69182
0.76690	0.78663	0.43613
0.22984	0.21827	0.43654
0.20159	0.18582	0.37083
0.14359	0.19119	0.30481
0.11322	0.16068	0.24911
0.22960	0.14942	0.37605
0.10574	0.09199	0.20143
0.13975	0.12416	0.26022
0.19851	0.11865	0.32285
0.79491	0.81897	0.36971
0.65954	0.42533	1.02775
0.79307	0.34710	0.64479
0.54994	0.34954	0.71425
0.60245	0.29330	0.61541
0.74418	0.60078	0.24936
0.23750	0.90876	0.71298
0.29292	0.85304	0.61561
0.06409	0.84121	0.77463
0.11614	0.78661	0.66488
0.79555	0.65728	0.34780
0.28804	0.41184	0.65985
0.23163	0.35656	0.56315
0.43173	0.33643	0.81163
0.55907	0.66017	0.22806
0.37840	0.28104	0.70798
0.74003	0.24725	0.27753
0.60811	0.71519	0.33995
0.77080	0.91326	0.68879
0.71326	0.85949	0.58747
0.92077	0.83679	0.81299
0.86673	0.78313	0.70224
0.24835	0.74909	0.27967
0.69629	0.59087	0.62994
0.75048	0.64507	0.52609
0.58319	0.66864	0.84249
0.63185	0.72356	0.72967
0.23677	0.09309	0.70944
0.29235	0.14921	0.61595
0.06246	0.15994	0.77069
0.11491	0.21509	0.66412
0.71323	0.41034	0.33793
0.76669	0.35459	0.43822
0.57452	0.33557	0.16922
0.62463	0.27960	0.27573
0.22469	0.91142	0.32254
0.27822	0.85683	0.42630
0.08033	0.83595	0.17303
0.13060	0.78132	0.28438
0.26429	0.59053	0.30069
0.20973	0.64619	0.39800
0.43181	0.66003	0.21240
0.38078	0.71494	0.32205
0.73682	0.75274	0.71513
0.76219	0.09385	0.27594
0.70662	0.14994	0.36968
0.94266	0.15746	0.24558
0.88981	0.21219	0.35336
0.25761	0.225023	0.71884
0.21932	0.08996	0.32818
0.27650	0.14540	0.42263
0.06800	0.16432	0.19688
0.12179	0.21966	0.30009
0.70281	0.52925	0.19304
0.58266	0.49817	0.57888
0.29270	0.52454	0.85892
0.42289	0.50448	0.42625
0.49772	0.49839	0.35734
0.58230	0.47299	0.36725
0.50711	0.50290	0.64257
0.42497	0.47460	0.62677
0.36495	0.44468	0.99424
0.50024	0.55407	0.25463
0.50303	0.55675	0.74924
0.64851	0.44956	0.98594
0.30622	0.50062	0.98998
0.29083	0.52299	0.13858
0.08052	0.02535	0.37738
0.21810	0.02212	0.86250
0.19759	0.99937	0.00380
0.99591	0.00253	0.35464
0.78404	0.02200	0.13274
0.80485	0.00007	0.99389
0.92264	0.02642	0.61956
0.00655	0.00298	0.64196
0.13904	0.05578	0.00588
0.86377	0.05616	0.99167

0.00137	0.94521	0.24842
0.00087	0.94553	0.74710
0.21085	0.97571	0.13870
0.92179	0.99155	0.41739
0.79110	0.97763	0.85428
0.08052	0.99110	0.57995
0.27118	0.40683	0.27484
0.21353	0.35112	0.36800
0.44818	0.34054	0.23782
0.39359	0.28622	0.34487
0.75761	0.25336	0.71856
0.76993	0.91244	0.29830
0.71372	0.85766	0.40021
0.93344	0.84026	0.20751
0.88050	0.78608	0.31897
0.25255	0.75168	0.72052
0.27136	0.59007	0.68748
0.21765	0.64500	0.58553
0.42464	0.66370	0.81578
0.37434	0.71843	0.70476
0.75528	0.75412	0.27524
0.78673	0.09055	0.66381
0.72982	0.14589	0.56825
0.93239	0.16579	0.81022
0.87856	0.22125	0.70768
0.24720	0.25108	0.27737
0.73849	0.40505	0.72999
0.82135	0.42861	0.82312
0.78759	0.45818	0.70915
0.86359	0.47166	0.77998
0.93795	0.52460	0.83317
0.91726	0.56692	0.91299
0.92975	0.56882	0.75537
0.82849	0.52774	0.72805
0.81048	0.59737	0.72780
0.80513	0.59756	0.88692
0.74336	0.57344	0.80136
0.78382	0.43268	0.18135
0.72996	0.48982	0.13042
0.82771	0.47631	0.14672
0.84767	0.43291	0.06970
0.44106	0.39983	0.11719
0.93831	0.10202	0.87928
0.36950	0.55775	0.78934
0.56468	0.60345	0.88698
0.13119	0.05726	0.77992
0.06673	0.10028	0.87597
0.62738	0.56116	0.78484
0.44081	0.40027	0.87430
0.87001	0.94380	0.78634
0.93346	0.90093	0.11412
0.38015	0.44267	0.22132
0.93360	0.90012	0.88010
0.38421	0.44318	0.76428
0.43189	0.59970	0.12133
0.87013	0.05665	0.21688
0.93557	0.10002	0.12438
0.36900	0.55595	0.21679
0.87380	0.94472	0.21660
0.56906	0.39948	0.10658
0.13167	0.94282	0.20972
0.06753	0.89977	0.11447
0.61939	0.44169	0.22857
0.19333	0.99987	0.10930
0.94161	0.00319	0.34677
0.69624	0.50149	0.18694
0.44355	0.49977	0.34883
0.80716	0.99966	0.10233
0.06411	0.00096	0.34747
0.31022	0.49968	0.10652
0.56561	0.49834	0.34678
0.80958	0.00131	0.88542
0.06098	0.00333	0.64980
0.30961	0.50021	0.88820
0.56044	0.50697	0.65110
0.19480	0.99974	0.89209
0.93851	0.00185	0.64893
0.43813	0.50037	0.65000
0.00182	0.96150	0.17821
0.50180	0.47069	0.13008
0.99934	0.02981	0.13281
0.50150	0.53907	0.18163
0.00041	0.96179	0.81737
0.50552	0.47324	0.86578
0.00345	0.03009	0.86499
0.50118	0.54091	0.82048
0.07459	0.97138	0.99767
0.60693	0.46421	0.99913

0.90269	0.03988	0.99325
0.42910	0.52918	0.00069
0.92779	0.97162	0.99799
0.40350	0.46131	0.99421
0.10001	0.03958	0.00414
0.57642	0.53150	0.00115
0.56378	0.60254	0.11959
0.12026	0.05813	0.23228
0.06418	0.10120	0.12137
0.63315	0.56052	0.20615
0.56841	0.40321	0.86648
0.12881	0.94410	0.77860
0.06796	0.90060	0.87985
0.62341	0.44740	0.75802
0.43149	0.60113	0.88746
0.88381	0.05923	0.76470
0.70083	0.50330	0.86808
0.81475	0.52175	0.91120
0.75676	0.45658	0.02429
0.76593	0.48374	0.90372
0.91214	0.00043	0.15396
0.91463	0.00114	0.83686
0.41614	0.50071	0.83864
0.41299	0.49946	0.15652
0.50477	0.43192	0.99332
0.00141	0.06982	0.99927
0.58701	0.50029	0.15877
0.08789	0.00049	0.15955
0.50005	0.57017	0.00156
0.09053	0.00045	0.84215
0.59367	0.50314	0.84278
0.00108	0.93134	0.99717

POSCAR file for gd_solvant

POSCAR file from zrtpb-gd-meho-c.res: C: 144 F: 1 H: 122 O: 66 P: 1 ZR: 12
34.8920000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053

144 1 122 66 1 12

Direct

0.79244	0.88301	0.30309
0.64941	0.62460	0.24158
0.39252	0.34185	0.26530
0.23238	0.78326	0.43720
0.20701	0.81554	0.36700
0.15059	0.80989	0.29664
0.12204	0.83994	0.23578
0.23573	0.85179	0.37004
0.26427	0.35008	0.35228
0.11437	0.90851	0.18583
0.14898	0.87644	0.24488
0.38542	0.59170	0.81854
0.71178	0.62092	0.29313
0.20658	0.88210	0.31092
0.39587	0.40923	0.20041
0.72281	0.28072	0.43867
0.69410	0.31271	0.37293
0.64206	0.30646	0.29260
0.61204	0.33684	0.23579
0.71676	0.34998	0.39152
0.60199	0.40628	0.19666
0.63305	0.37394	0.25993
0.68573	0.38043	0.33771
0.88502	0.84238	0.25304
0.35183	0.62385	0.75801
0.36073	0.37700	0.25788
0.29625	0.38099	0.30062
0.74113	0.24756	0.37809
0.24918	0.74956	0.37835
0.25457	0.24970	0.62240
0.74428	0.75175	0.62064
0.25306	0.75105	0.62374
0.75673	0.25126	0.62321
0.75009	0.75189	0.37539
0.20621	0.18471	0.63210
0.24711	0.25080	0.37637
0.29344	0.61860	0.69401
0.76655	0.78508	0.43691
0.22885	0.21778	0.43759
0.20089	0.18535	0.37155
0.14134	0.19038	0.30975
0.11111	0.15985	0.25410
0.23053	0.14934	0.37243
0.10546	0.09140	0.20236
0.13934	0.12365	0.26117

0.23438	0.78393	0.56314
0.19956	0.11850	0.31944
0.79377	0.81746	0.36899
0.20809	0.81655	0.63186
0.14550	0.81235	0.68402
0.11588	0.84247	0.74324
0.24124	0.85124	0.64379
0.11288	0.90965	0.80750
0.23273	0.21725	0.56325
0.14770	0.87765	0.74854
0.21079	0.88191	0.69967
0.76189	0.85267	0.36019
0.73052	0.28253	0.56385
0.14333	0.18840	0.68343
0.70256	0.31533	0.63031
0.63449	0.31494	0.65379
0.60406	0.34596	0.70669
0.88918	0.90975	0.19060
0.73955	0.34735	0.66254
0.73092	0.71861	0.43331
0.60574	0.41113	0.78955
0.64056	0.37871	0.73177
0.70850	0.37937	0.70962
0.85442	0.87796	0.25045
0.97924	0.51802	1.03385
0.88094	0.47849	0.96201
0.89201	0.50505	1.16808
0.77440	0.21795	0.56270
0.11390	0.15788	0.74099
0.80336	0.18583	0.62834
0.86204	0.19106	0.69256
0.89219	0.16047	0.74815
0.77452	0.14960	0.62454
0.70662	0.68626	0.36120
0.89792	0.09187	0.79841
0.86459	0.12415	0.73886
0.80528	0.11879	0.67785
0.23971	0.15010	0.64297
0.11214	0.09045	0.80462
0.14607	0.12277	0.74532
0.20936	0.11906	0.69686
0.72746	0.71857	0.55926
0.70096	0.68609	0.62714
0.26963	0.71731	0.56489
0.64496	0.69000	0.30581
0.64717	0.69197	0.70432
0.61837	0.66177	0.76461
0.72597	0.64917	0.61469
0.60879	0.59249	0.80757
0.64168	0.62481	0.74641
0.69542	0.61874	0.67074
0.76400	0.78496	0.56274
0.78982	0.81704	0.63392
0.84730	0.81095	0.70086
0.87716	0.84067	0.76148
0.61712	0.65971	0.24485
0.29485	0.68495	0.63510
0.76140	0.85330	0.63377
0.88668	0.90905	0.81257
0.79966	0.53994	0.74768
0.85065	0.87727	0.75478
0.90350	0.51327	0.03476
0.84823	0.54155	0.01668
0.83100	0.56371	0.12769
0.79204	0.88333	0.69211
0.75936	0.40979	0.07327
0.85519	0.81250	0.31289
0.27290	0.28271	0.56119
0.30041	0.31504	0.62787
0.35785	0.30963	0.69556
0.38753	0.34003	0.75287
0.27215	0.35145	0.62287
0.39436	0.40867	0.80169
0.35235	0.69015	0.70290
0.36078	0.37651	0.74189
0.26937	0.28318	0.43547
0.30253	0.38211	0.67787
0.74095	0.65190	0.34909
0.76671	0.21617	0.43760
0.79370	0.18359	0.36908
0.85795	0.18699	0.32342
0.29730	0.31548	0.36706
0.88778	0.15669	0.26542
0.75937	0.14945	0.35268
0.88917	0.08987	0.19608
0.38034	0.66001	0.76426
0.85466	0.12199	0.25557
0.79017	0.11853	0.29883

0.61553	0.59209	0.18311
0.36145	0.31155	0.32130
0.26765	0.71665	0.43895
0.29346	0.68405	0.36969
0.35450	0.68866	0.31209
0.38364	0.65858	0.25196
0.26121	0.64894	0.36167
0.38785	0.59094	0.19172
0.35293	0.62301	0.25043
0.26480	0.64903	0.63467
0.29122	0.61840	0.30450
0.81091	0.47124	0.83136
0.79300	0.34768	0.64566
0.55122	0.34558	0.72832
0.60550	0.28982	0.62931
0.73645	0.59325	0.29000
0.23545	0.90954	0.70673
0.29147	0.85424	0.60831
0.06712	0.83959	0.78492
0.11982	0.78505	0.67571
0.79089	0.64939	0.38581
0.28171	0.41080	0.67279
0.22558	0.35547	0.57525
0.43229	0.33643	0.80643
0.56908	0.66219	0.20082
0.37989	0.28121	0.69985
0.73711	0.24676	0.28065
0.61845	0.71705	0.31329
0.77129	0.91205	0.68866
0.71489	0.85804	0.58656
0.92242	0.83643	0.81314
0.86937	0.78251	0.70199
0.24859	0.74915	0.28059
0.71159	0.58953	0.65485
0.76970	0.64437	0.55952
0.57642	0.66591	0.82508
0.62712	0.72074	0.71409
0.23435	0.09149	0.70174
0.28997	0.14743	0.60738
0.06494	0.16032	0.78214
0.11724	0.21558	0.67574
0.70228	0.40972	0.35183
0.75964	0.35473	0.44857
0.57187	0.33277	0.17177
0.62445	0.27739	0.27768
0.22761	0.91073	0.31622
0.28154	0.85614	0.41971
0.07756	0.83611	0.18168
0.12817	0.78155	0.29348
0.26737	0.59047	0.30189
0.21206	0.64554	0.40132
0.43138	0.66168	0.20677
0.37953	0.71623	0.31735
0.74261	0.75152	0.71839
0.76455	0.09125	0.29002
0.70830	0.14694	0.38452
0.93770	0.15898	0.22811
0.88470	0.21380	0.33542
0.25648	0.24962	0.72010
0.22146	0.09005	0.32172
0.27860	0.14572	0.41538
0.06475	0.16316	0.20498
0.11824	0.21855	0.30863
0.71536	0.51786	0.15595
0.57546	0.49639	0.57807
0.28697	0.52246	0.86270
0.41916	0.49819	0.41942
0.51052	0.49819	0.35716
0.57775	0.46949	0.36019
0.49516	0.50077	0.64453
0.42004	0.47272	0.63500
0.36227	0.44470	0.00187
0.50180	0.55352	0.25490
0.50007	0.55484	0.74828
0.64719	0.44813	0.99478
0.30472	0.50096	0.01564
0.29633	0.52645	0.14240
0.08073	0.02485	0.37815
0.21756	0.02184	0.86290
0.19748	0.99899	0.00377
0.99632	0.00184	0.35590
0.78419	0.02134	0.13510
0.80473	0.99919	0.99569
0.92217	0.02558	0.62115
0.00589	0.00221	0.64310
0.13876	0.05527	0.00676
0.86362	0.05539	0.99311
0.00133	0.94456	0.24982

0.00061	0.94489	0.74845
0.21131	0.97551	0.13910
0.92218	0.99100	0.41938
0.79070	0.97666	0.85707
0.08010	0.99066	0.58058
0.27176	0.40863	0.29228
0.21312	0.35291	0.38343
0.44240	0.33913	0.22807
0.38711	0.28432	0.33182
0.76129	0.25209	0.72056
0.76888	0.91099	0.29785
0.71241	0.85613	0.39838
0.93298	0.83900	0.20873
0.87989	0.78485	0.31930
0.25378	0.75149	0.72149
0.27141	0.59019	0.69063
0.21817	0.64509	0.58713
0.42556	0.66352	0.81655
0.37591	0.71820	0.70401
0.75208	0.75214	0.27768
0.78389	0.09022	0.67403
0.72710	0.14588	0.57942
0.93795	0.16382	0.79901
0.88467	0.21935	0.69555
0.24518	0.25090	0.27867
0.73662	0.40511	0.73076
0.78218	0.53079	0.65928
0.77971	0.56844	0.76686
0.85413	0.54051	0.74822
0.86067	0.56152	0.94361
0.87373	0.58082	0.15658
0.81770	0.54402	0.20066
0.78907	0.58302	0.11155
0.72398	0.39035	0.11830
0.71942	0.46293	0.08952
0.79705	0.41809	0.14002
0.78392	0.39359	0.00127
0.88441	0.48504	0.86264
0.91736	0.45405	0.97404
0.83397	0.46056	0.96388
0.92303	0.47801	1.16460
0.91268	0.53464	1.18621
0.84490	0.50001	1.22180
1.01597	0.51507	0.95719
1.01163	0.49553	1.07791
0.98862	0.54883	1.06038
0.43953	0.39993	0.12392
0.93855	0.10106	0.87982
0.36752	0.55787	0.79373
0.56418	0.60167	0.88231
0.13067	0.05666	0.78039
0.06669	0.09965	0.87766
0.62652	0.55881	0.78139
0.43565	0.39944	0.88187
0.86982	0.94307	0.78774
0.93360	0.90003	0.11603
0.37993	0.44297	0.22981
0.93357	0.89953	0.88175
0.37982	0.44247	0.77067
0.43557	0.60029	0.12385
0.87040	0.05602	0.21903
0.93516	0.09933	0.12465
0.36948	0.55701	0.21402
0.87370	0.94366	0.21860
0.56697	0.39743	0.10701
0.13202	0.94241	0.21046
0.06773	0.89926	0.11579
0.61377	0.43969	0.23351
0.19333	0.99954	0.10966
0.94191	0.00235	0.34822
0.69348	0.49331	0.16493
0.44406	0.50274	0.34629
0.80720	0.99893	0.10501
0.06440	0.00043	0.34842
0.30873	0.50096	0.11500
0.56535	0.49637	0.35037
0.80919	0.00036	0.88802
0.06046	0.00259	0.65086
0.30766	0.49961	0.89507
0.55333	0.50448	0.65120
0.19466	0.99932	0.89246
0.93815	0.00101	0.65028
0.43339	0.49878	0.65451
0.00190	0.96082	0.17958
0.50262	0.47031	0.13125
0.99924	0.02908	0.13413
0.50426	0.53882	0.18134
0.00016	0.96110	0.81880

0.50016	0.47162	0.86634
0.00310	0.02934	0.86606
0.49776	0.53972	0.82104
0.07443	0.97079	0.99874
0.60387	0.46233	0.99466
0.90249	0.03908	0.99487
0.42886	0.52900	0.00467
0.92756	0.97085	0.99977
0.40113	0.46109	0.00152
0.09984	0.03899	0.00508
0.57673	0.53034	0.99662
0.56794	0.60129	0.11519
0.12038	0.05762	0.23300
0.06377	0.10064	0.12268
0.63483	0.55841	0.20539
0.56286	0.40120	0.86639
0.12850	0.94356	0.77969
0.06801	0.90002	0.88150
0.62050	0.44494	0.76005
0.43118	0.60089	0.89042
0.88335	0.05818	0.76649
0.69686	0.49954	0.84611
0.78733	0.52188	0.98315
0.72777	0.44180	0.02446
0.76802	0.50766	0.85562
0.59118	0.50006	0.15383
0.00125	0.06891	0.00051
0.50195	0.43119	0.99711
0.41615	0.49915	0.16374
0.41025	0.50061	0.84607
0.91443	0.00024	0.83869
0.91212	0.99960	0.15574
0.50060	0.56936	0.00213
0.00094	0.93072	0.99862
0.08786	0.99990	0.16022
0.09016	0.99980	0.84304
0.58552	0.50071	0.83790

POSCAR file for gd_p5

POSCAR file from zrtcpb-gd-meoh-c.res: C: 144 F: 1 H: 122 O: 66 P: 1 ZR: 12
34.8920000000000
0.5792995890490465 -0.0000450140396845 0.000764928407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053

144 1 122 66 1 12

Direct

0.79249	0.88302	0.30317
0.64969	0.62476	0.23955
0.39310	0.34213	0.26766
0.23223	0.78348	0.43705
0.20691	0.81578	0.36695
0.15098	0.81004	0.29549
0.12247	0.84009	0.23458
0.23528	0.85211	0.37114
0.26401	0.34992	0.35091
0.11432	0.90869	0.18601
0.14898	0.87666	0.24486
0.38275	0.59161	0.81981
0.71317	0.62159	0.28698
0.20615	0.88242	0.31199
0.39606	0.40938	0.20137
0.72170	0.28081	0.44053
0.69334	0.31292	0.37479
0.64195	0.30676	0.29311
0.61266	0.33719	0.23536
0.71614	0.35015	0.39386
0.60292	0.40660	0.19568
0.63403	0.37425	0.25912
0.68615	0.38065	0.33817
0.88517	0.84249	0.25289
0.34989	0.62383	0.75838
0.36089	0.37711	0.25861
0.29601	0.38089	0.29957
0.73978	0.24770	0.37949
0.24874	0.74797	0.37808
0.25510	0.24952	0.62253
0.74413	0.75187	0.62049
0.25313	0.75131	0.62348
0.75732	0.25154	0.62425
0.75045	0.75183	0.37533
0.20655	0.18457	0.63209
0.24707	0.25084	0.37660
0.29167	0.61880	0.69374
0.76686	0.78504	0.43679
0.22904	0.21777	0.43769
0.20109	0.18533	0.37161

0.14177	0.19041	0.30926
0.11151	0.15987	0.25363
0.23056	0.14929	0.37312
0.10555	0.09142	0.20272
0.13951	0.12363	0.26135
0.23444	0.78419	0.56286
0.19956	0.11844	0.32018
0.79403	0.81744	0.36883
0.20810	0.81678	0.63164
0.14516	0.81264	0.68251
0.11546	0.84269	0.74187
0.24148	0.85136	0.64500
0.11279	0.90975	0.80764
0.23313	0.21711	0.56324
0.14755	0.87779	0.74846
0.21094	0.88200	0.70080
0.76201	0.85261	0.36004
0.73026	0.28270	0.56549
0.14340	0.18821	0.68243
0.70254	0.31552	0.63215
0.63391	0.31630	0.64976
0.60393	0.34740	0.70294
0.88911	0.90984	0.19072
0.74045	0.34649	0.67039
0.73082	0.71862	0.43333
0.60662	0.41183	0.79062
0.64154	0.37927	0.73358
0.71001	0.37875	0.71732
0.85447	0.87806	0.25051
0.97014	0.56983	-0.06338
0.92154	0.50635	0.97785
0.90650	0.55823	0.12584
0.77464	0.21824	0.56330
0.11389	0.15776	0.74019
0.80366	0.18606	0.62846
0.86176	0.19135	0.69428
0.89189	0.16075	0.74977
0.77531	0.14972	0.62295
0.70645	0.68627	0.36098
0.89807	0.09207	0.79855
0.86481	0.12435	0.73893
0.80604	0.11891	0.67629
0.24022	0.15003	0.64416
0.11224	0.09047	0.80501
0.14626	0.12273	0.74563
0.20979	0.11904	0.69812
0.72698	0.71872	0.55913
0.69997	0.68641	0.62711
0.26940	0.71755	0.56451
0.64372	0.68956	0.30941
0.64734	0.69275	0.70647
0.61784	0.66273	0.76660
0.72341	0.64923	0.61258
0.60553	0.59331	0.80592
0.63939	0.62554	0.74613
0.69231	0.61904	0.66889
0.76415	0.78502	0.56251
0.78996	0.81711	0.63372
0.84730	0.81103	0.70105
0.87709	0.84075	0.76179
0.61604	0.65936	0.24778
0.29423	0.68510	0.63466
0.76158	0.85341	0.63344
0.88664	0.90916	0.81274
0.75740	0.54465	0.74517
0.85066	0.87739	0.75483
0.91140	0.54906	-0.00703
0.84900	0.56210	-0.07471
0.82125	0.66015	-0.03680
0.79217	0.88344	0.69181
0.82186	0.44234	-0.01716
0.85544	0.81256	0.31275
0.27334	0.28254	0.56144
0.30073	0.31490	0.62833
0.35760	0.30938	0.69744
0.38710	0.33979	0.75505
0.27271	0.35129	0.62221
0.39394	0.40854	0.80288
0.35166	0.69007	0.70273
0.36061	0.37631	0.74309
0.26952	0.28317	0.43583
0.30281	0.38193	0.67775
0.74191	0.65248	0.34430
0.76616	0.21640	0.43839
0.79336	0.18380	0.36961
0.85822	0.18704	0.32654
0.29744	0.31553	0.36755
0.88819	0.15677	0.26854

0.75871	0.14998	0.35088
0.88912	0.09015	0.19663
0.37901	0.65983	0.76453
0.85463	0.12227	0.25632
0.78964	0.11904	0.29733
0.61563	0.59227	0.18102
0.36205	0.31184	0.32376
0.26717	0.71687	0.43871
0.29275	0.68422	0.36950
0.35404	0.68866	0.31267
0.38309	0.65850	0.25286
0.26015	0.64923	0.36109
0.38705	0.59091	0.19298
0.35207	0.62301	0.25123
0.26365	0.64935	0.63399
0.29012	0.61858	0.30448
0.79903	0.48160	0.74947
0.79428	0.34591	0.65815
0.55063	0.34777	0.72052
0.60416	0.29200	0.62064
0.73921	0.59441	0.27936
0.23573	0.90957	0.70878
0.29195	0.85428	0.61055
0.06645	0.83985	0.78261
0.11930	0.78544	0.67299
0.79243	0.65029	0.37876
0.28215	0.41064	0.67208
0.22661	0.35534	0.57316
0.43155	0.33615	0.80942
0.56711	0.66155	0.20684
0.37930	0.28089	0.70273
0.73513	0.24692	0.28214
0.61626	0.71619	0.32029
0.77147	0.91217	0.68813
0.71511	0.85816	0.58610
0.92220	0.83647	0.81383
0.86933	0.78258	0.70245
0.24794	0.74935	0.28033
0.70737	0.58968	0.65224
0.76619	0.64403	0.55532
0.57666	0.66723	0.82854
0.62863	0.72176	0.71800
0.23486	0.09151	0.70375
0.29063	0.14739	0.60926
0.06473	0.16018	0.78059
0.11716	0.21532	0.67380
0.70293	0.40988	0.35253
0.75817	0.35485	0.45307
0.57253	0.33319	0.17122
0.62413	0.27774	0.27809
0.22685	0.91111	0.31810
0.28077	0.85652	0.42169
0.07832	0.83619	0.17968
0.12889	0.78162	0.29136
0.26605	0.59071	0.30169
0.21082	0.64602	0.40015
0.43095	0.66146	0.20805
0.37931	0.71615	0.31828
0.74238	0.75167	0.71822
0.76372	0.09191	0.28702
0.70729	0.14761	0.38105
0.93855	0.15894	0.23311
0.88532	0.21364	0.34042
0.25720	0.24936	0.72021
0.22134	0.08996	0.32285
0.27847	0.14561	0.41659
0.06529	0.16322	0.20416
0.11889	0.21863	0.30751
0.71551	0.51795	0.15339
0.57258	0.49824	0.57488
0.28520	0.52197	0.86405
0.41993	0.49824	0.42044
0.51019	0.49851	0.35645
0.57819	0.47005	0.35993
0.49233	0.50052	0.64415
0.41715	0.47276	0.63561
0.36176	0.44460	0.00369
0.50138	0.55389	0.25464
0.49734	0.55504	0.74792
0.64603	0.44883	0.99252
0.30359	0.50075	0.01737
0.29576	0.52650	0.14354
0.08053	0.02490	0.37887
0.21779	0.02177	0.86308
0.19758	0.99898	0.00478
0.99609	0.00202	0.35620
0.78399	0.02147	0.13542
0.80466	0.99938	0.99532

0.92224	0.02558	0.62088
0.00613	0.00231	0.64330
0.13883	0.05530	0.00726
0.86355	0.05554	0.99345
0.00124	0.94456	0.24987
0.00048	0.94490	0.74887
0.21122	0.97545	0.13948
0.92196	0.99075	0.41888
0.79085	0.97672	0.85727
0.08024	0.99050	0.58130
0.27122	0.40841	0.29016
0.21255	0.35258	0.38058
0.44327	0.33954	0.23157
0.38809	0.28481	0.33588
0.76258	0.25236	0.72149
0.76884	0.91097	0.29804
0.71248	0.85600	0.39810
0.93309	0.83923	0.20844
0.88023	0.78494	0.31903
0.25401	0.75175	0.72121
0.26925	0.59049	0.69029
0.21716	0.64562	0.58587
0.42421	0.66313	0.81701
0.37564	0.71801	0.70383
0.75267	0.75202	0.27764
0.78500	0.09027	0.67133
0.72832	0.14589	0.57646
0.93727	0.16416	0.80169
0.88393	0.21974	0.69866
0.24482	0.25104	0.27893
0.73905	0.40377	0.74263
0.72648	0.53411	0.67146
0.73184	0.56864	0.78840
0.80550	0.55389	0.70922
0.86133	0.56273	0.82898
0.85929	0.62252	-0.04249
0.80380	0.59876	0.05642
0.77921	0.60856	-0.09327
0.80153	0.41815	0.03480
0.71047	0.47332	0.11093
0.86165	0.45543	0.03696
0.84420	0.43060	-0.09940
0.92309	0.49797	0.88294
0.96908	0.49794	0.01809
0.88181	0.49006	1.02175
0.94860	0.54530	0.17344
0.90808	0.58912	0.14248
0.86044	0.54681	0.16516
-0.02370	0.56150	0.84219
0.01626	0.56235	-0.01650
0.96460	0.60102	-0.05972
0.43997	0.40013	0.12528
0.93859	0.10122	0.88022
0.36469	0.55779	0.79512
0.56124	0.60246	0.88148
0.13075	0.05666	0.78091
0.06675	0.09969	0.87793
0.62218	0.55965	0.77765
0.43555	0.33947	0.88274
0.86978	0.94320	0.78805
0.93356	0.90020	0.11611
0.37985	0.44303	0.23064
0.93355	0.89964	0.88193
0.37888	0.44230	0.77210
0.43484	0.60030	0.12530
0.87027	0.05629	0.21933
0.93513	0.09959	0.12519
0.36878	0.55694	0.21530
0.87359	0.94380	0.21870
0.56762	0.39773	0.10632
0.13185	0.94262	0.21081
0.06768	0.89946	0.11589
0.61454	0.44003	0.23245
0.19340	0.99952	0.11003
0.94164	0.00260	0.34850
0.69345	0.49342	0.16102
0.44441	0.50281	0.34687
0.80718	0.99914	0.10514
0.06409	0.00054	0.34883
0.30796	0.50094	0.11650
0.56547	0.49684	0.34928
0.80917	0.00049	0.88814
0.06063	0.00275	0.65106
0.30614	0.49921	0.89653
0.55064	0.50388	0.65043
0.19466	0.99933	0.89277
0.93825	0.00108	0.65056
0.43074	0.49882	0.65473

0.00177	0.96095	0.17990
0.50230	0.47057	0.13149
0.99915	0.02921	0.13443
0.50378	0.53908	0.18128
0.00016	0.96121	0.81903
0.49876	0.47177	0.86611
0.00316	0.02947	0.86648
0.49518	0.53999	0.82085
0.07438	0.97090	0.99909
0.60259	0.46290	0.99387
0.90247	0.03925	0.99512
0.42759	0.52906	0.00540
0.92756	0.97104	-0.00000
0.40048	0.46109	0.00267
0.09986	0.03905	0.00551
0.57516	0.53084	0.99558
0.56738	0.60147	0.11468
0.12041	0.05759	0.23336
0.06377	0.10063	0.12313
0.63532	0.55859	0.20235
0.56307	0.40184	0.86615
0.12848	0.94367	0.77996
0.06794	0.90012	0.88165
0.62160	0.44565	0.76162
0.42820	0.60077	0.89235
0.88360	0.05834	0.76655
0.69338	0.50291	0.85081
0.79517	0.53493	0.94210
0.77291	0.46899	-0.04835
0.76582	0.50662	0.84875
0.59091	0.50044	0.15264
0.00123	0.06909	0.00093
0.50176	0.43145	0.99737
0.41571	0.49926	0.16428
0.40854	0.50060	0.84698
0.91450	0.00042	0.83880
0.91193	0.99978	0.15603
0.49906	0.56968	0.00218
0.00086	0.93084	0.99887
0.08777	-0.00000	0.16070
0.09029	0.99989	0.84339
0.58349	0.50134	0.83682

POSCAR file for gd_p5_prime

POSCAR file from zrtepb-gd-meoh-c.res: C: 144 F: 1 H: 122 O: 66 P: 1 ZR: 12

```
34.8920000000000
0.5792995890490465 -0.0000450140396845 0.0007649282407427
-0.0000781726227076 1.0082675674799713 0.0000166934211398
0.0004256087542374 0.0000053656439079 0.3214078049098053
```

144 1 122 66 1 12

Direct

0.79240	0.88339	0.30245
0.64862	0.62582	0.23914
0.39752	0.34302	0.27472
0.23146	0.78353	0.43695
0.20649	0.81587	0.36654
0.15202	0.80996	0.29157
0.12350	0.84007	0.23084
0.23349	0.85249	0.37420
0.26589	0.34921	0.34570
0.11372	0.90895	0.18596
0.14858	0.87686	0.24446
0.38045	0.59152	0.82085
0.71450	0.62409	0.27557
0.20444	0.88280	0.31493
0.39843	0.40957	0.20144
0.72318	0.28210	0.43707
0.69680	0.31465	0.37036
0.64554	0.30927	0.28811
0.61787	0.34011	0.22990
0.72142	0.35152	0.38900
0.60905	0.40933	0.19159
0.64092	0.37689	0.25306
0.69339	0.38247	0.33184
0.88561	0.84315	0.25266
0.34704	0.62367	0.76012
0.36375	0.37731	0.25959
0.29768	0.38032	0.29475
0.74150	0.24891	0.37679
0.24828	0.74976	0.37852
0.25621	0.24968	0.62203
0.74231	0.75279	0.61968
0.25137	0.75146	0.62395
0.75704	0.25283	0.62217
0.75150	0.75232	0.37459
0.20675	0.18489	0.63114

0.24922	0.25093	0.37593
0.28870	0.61877	0.69568
0.76755	0.78554	0.43633
0.23024	0.21802	0.43696
0.20203	0.18565	0.37096
0.14383	0.19110	0.30556
0.11322	0.16064	0.25011
0.23009	0.14926	0.37559
0.10536	0.09195	0.20245
0.13977	0.12411	0.26077
0.23319	0.78432	0.56276
0.19879	0.11854	0.32254
0.79478	0.81790	0.36864
0.20694	0.81705	0.63122
0.14295	0.81356	0.67810
0.11361	0.84366	0.73781
0.24154	0.85104	0.64845
0.11250	0.91028	0.80749
0.23389	0.21738	0.56255
0.14700	0.87825	0.74806
0.21128	0.88186	0.70395
0.76234	0.85294	0.35972
0.73014	0.28385	0.56233
0.14257	0.18817	0.67728
0.70162	0.31666	0.62748
0.63253	0.31883	0.63604
0.60246	0.34983	0.68967
0.88876	0.91043	0.18976
0.73986	0.34636	0.67356
0.73015	0.71949	0.43243
0.60674	0.41266	0.78895
0.64088	0.38032	0.72934
0.70972	0.37867	0.72065
0.85443	0.87858	0.24991
0.95721	0.55560	0.67572
0.93557	0.54512	0.89088
0.87569	0.59684	-0.21685
0.77521	0.21957	0.56185
0.11294	0.15779	0.73529
0.80381	0.18732	0.62740
0.85992	0.19277	0.69857
0.88991	0.16210	0.75399
0.77712	0.15065	0.61697
0.70516	0.68725	0.36031
0.89792	0.09305	0.79777
0.86460	0.12544	0.73841
0.80759	0.11983	0.67075
0.24115	0.15076	0.64709
0.11232	0.09096	0.80488
0.14623	0.12314	0.74480
0.21060	0.11976	0.70090
0.72490	0.71975	0.55796
0.69737	0.68749	0.62512
0.26749	0.71759	0.56558
0.63965	0.68906	0.32073
0.64687	0.69428	0.70850
0.61724	0.66441	0.76897
0.71889	0.65005	0.60699
0.60322	0.59509	0.80618
0.63719	0.62708	0.74601
0.68850	0.62006	0.66550
0.76350	0.78573	0.56198
0.78922	0.81778	0.63343
0.84639	0.81159	0.70116
0.87630	0.84128	0.76185
0.61200	0.65893	0.25890
0.29168	0.68508	0.63634
0.76107	0.85414	0.63285
0.88640	0.90976	0.81205
0.83282	0.44874	0.82166
0.85016	0.87798	0.75447
0.90395	0.55672	0.77267
0.85006	0.52749	0.74019
0.80670	0.53797	0.63525
0.79179	0.88414	0.69118
0.83852	0.50150	0.09862
0.85621	0.81314	0.31255
0.27520	0.28257	0.56104
0.30228	0.31501	0.62798
0.35801	0.30950	0.69998
0.38722	0.34000	0.75767
0.27495	0.35151	0.61906
0.39464	0.40885	0.80283
0.34904	0.68995	0.70461
0.36145	0.37660	0.74315
0.27202	0.28314	0.43541
0.30466	0.38223	0.67492
0.74301	0.65508	0.33281

0.76738	0.21766	0.43677
0.79475	0.18498	0.36903
0.86142	0.18658	0.33522
0.30051	0.31551	0.36784
0.89089	0.15618	0.27711
0.75807	0.15236	0.34227
0.88882	0.09074	0.19586
0.37622	0.65967	0.76644
0.85494	0.12292	0.25647
0.78841	0.12108	0.28947
0.61452	0.59343	0.18081
0.36648	0.31266	0.33050
0.26610	0.71683	0.43978
0.29201	0.68395	0.37194
0.35391	0.68801	0.31694
0.38310	0.65762	0.25862
0.25919	0.64902	0.36346
0.38647	0.59023	0.19753
0.35170	0.62221	0.25669
0.26083	0.64940	0.63596
0.28931	0.61809	0.30853
0.73731	0.44308	0.92452
0.79394	0.34475	0.66787
0.54864	0.35106	0.70060
0.60250	0.29561	0.60001
0.74301	0.59808	0.25959
0.23703	0.90905	0.71448
0.29269	0.85342	0.61693
0.06391	0.84125	0.77604
0.11603	0.78683	0.66543
0.79506	0.65405	0.35971
0.28436	0.41098	0.66724
0.22973	0.35563	0.56744
0.43093	0.33634	0.81389
0.56098	0.65998	0.22669
0.37911	0.28092	0.70764
0.73777	0.24804	0.27933
0.61023	0.71443	0.34072
0.77136	0.91293	0.68712
0.71475	0.85898	0.58516
0.92129	0.83695	0.81416
0.86826	0.78309	0.70274
0.24807	0.74929	0.28075
0.70330	0.59058	0.64911
0.75981	0.64449	0.54570
0.57733	0.66916	0.83337
0.62988	0.72350	0.72285
0.23631	0.09250	0.70929
0.29222	0.14840	0.61513
0.06308	0.16001	0.77289
0.11570	0.21495	0.66545
0.71149	0.41140	0.34711
0.76296	0.35569	0.44982
0.57733	0.33664	0.16663
0.62629	0.28055	0.27319
0.22413	0.91165	0.32368
0.27771	0.85717	0.42804
0.08033	0.83600	0.17361
0.13095	0.78135	0.28461
0.26476	0.59036	0.30539
0.20943	0.64609	0.40091
0.43125	0.66038	0.21464
0.37943	0.71542	0.32252
0.73990	0.75266	0.71735
0.76067	0.09486	0.27319
0.70551	0.15117	0.36617
0.94258	0.15732	0.24805
0.89017	0.21213	0.35590
0.25789	0.24953	0.71974
0.21955	0.08984	0.32743
0.27711	0.14520	0.42178
0.06778	0.16422	0.19855
0.12203	0.21958	0.30135
0.71152	0.52764	0.14214
0.57274	0.50373	0.56914
0.28647	0.52289	0.86871
0.42647	0.50134	0.43061
0.50187	0.49961	0.35837
0.58620	0.47419	0.36584
0.49725	0.50131	0.64100
0.41572	0.47350	0.63378
0.36295	0.44468	0.00365
0.50157	0.55488	0.25461
0.49576	0.55631	0.74850
0.64790	0.45245	0.98413
0.30420	0.50036	0.00649
0.29183	0.52375	0.14733
0.07962	0.02522	0.37913

0.21771	0.02215	0.86449
0.19709	0.99937	0.00457
0.99521	0.00253	0.35537
0.78380	0.02200	0.13378
0.80452	0.00008	0.99392
0.92222	0.02618	0.61993
0.00641	0.00299	0.64309
0.13859	0.00572	0.00732
0.86336	0.05617	0.99233
0.00055	0.94519	0.24940
0.00052	0.94550	0.74839
0.21026	0.97585	0.14065
0.92101	0.99124	0.41757
0.79096	0.97754	0.85521
0.08020	0.99084	0.58151
0.27172	0.40729	0.28098
0.21362	0.35122	0.37092
0.44879	0.34099	0.24359
0.39355	0.28622	0.34718
0.76132	0.25374	0.71955
0.76839	0.91123	0.29683
0.71282	0.85614	0.39794
0.93365	0.84010	0.20853
0.88124	0.78559	0.31897
0.25192	0.75203	0.72169
0.26590	0.59056	0.69233
0.21424	0.64574	0.58807
0.42147	0.66293	0.81877
0.37312	0.71785	0.70584
0.75471	0.75242	0.27701
0.78771	0.09102	0.66207
0.73171	0.14655	0.56585
0.93393	0.16568	0.80945
0.88081	0.22139	0.70708
0.24736	0.25107	0.27824
0.73942	0.40272	0.75186
0.81437	0.42040	0.84673
0.83337	0.45039	0.72358
0.88340	0.45186	0.85695
0.87624	0.50055	0.72145
0.83648	0.54365	0.55476
0.77725	0.56363	-0.34500
0.77196	0.51477	0.61431
0.82890	0.50196	0.19550
0.71967	0.48642	0.07052
0.86142	0.52876	0.07199
0.87278	0.47801	1.07804
0.95270	0.51530	0.88825
0.97882	0.56327	-0.09022
0.90037	0.54788	-0.03455
0.91415	0.61653	-0.18435
0.85833	0.60766	-0.30378
0.83392	0.59778	-0.15331
0.97942	0.52697	0.66877
-0.00268	0.57568	-0.30229
0.93778	0.56352	0.58722
0.44218	0.40042	0.12492
0.93830	0.10208	0.87984
0.36325	0.55754	0.79586
0.55964	0.60406	0.88365
0.13109	0.05714	0.78172
0.06670	0.10028	0.87734
0.61893	0.56151	0.77608
0.43669	0.39995	0.88221
0.86966	0.94378	0.78718
0.93311	0.90073	0.11508
0.38185	0.44329	0.23001
0.93336	0.90017	0.88102
0.37932	0.44266	0.77249
0.43251	0.59992	0.12649
0.86937	0.05693	0.21737
0.93503	0.10019	0.12493
0.36969	0.55609	0.22174
0.87313	0.94433	0.21757
0.57006	0.40037	0.10754
0.13102	0.94285	0.21131
0.06717	0.89977	0.11559
0.62233	0.44303	0.22536
0.19261	0.99993	0.11096
0.94076	0.00318	0.34742
0.69822	0.50088	0.14288
0.44747	0.50141	0.35199
0.80684	0.99966	0.10321
0.06315	0.00093	0.34861
0.30957	0.49989	0.11599
0.56946	0.49952	0.34533
0.80916	0.00132	0.88624
0.06077	0.00340	0.65089

0.30607 0.49942 0.89911
 0.55143 0.50452 0.64738
 0.19459 0.99967 0.89384
 0.93825 0.00173 0.64993
 0.42980 0.49944 0.65329
 0.00118 0.96148 0.17922
 0.50279 0.47144 0.13056
 0.99871 0.02983 0.13388
 0.50253 0.53958 0.18220
 0.00006 0.96182 0.81852
 0.50019 0.47255 0.86600
 0.00309 0.03014 0.86587
 0.49452 0.54084 0.82055
 0.07413 0.97137 0.99898
 0.60423 0.46451 0.99417
 0.90230 0.03992 0.99395
 0.42711 0.52921 0.00510
 0.92720 0.97160 -0.00108
 0.40153 0.46129 0.00192
 0.09955 0.03954 0.00551
 0.57358 0.53190 0.99647
 0.56496 0.60236 0.11745
 0.11971 0.05813 0.23357
 0.06375 0.10123 0.12263
 0.63506 0.55972 0.20003
 0.56442 0.40238 0.86683
 0.12842 0.94418 0.78018
 0.06755 0.90062 0.88124
 0.62130 0.44653 0.76107
 0.42593 0.60083 0.89322
 0.88372 0.05936 0.76516
 0.71112 0.49442 0.81414
 0.80798 0.52219 0.84336
 0.77674 0.49622 1.03968
 0.77289 0.48274 0.88408
 0.58881 0.50144 0.15485
 0.00103 0.06977 0.00042
 0.50303 0.43195 0.99586
 0.41441 0.49973 0.16178
 0.41026 0.50057 0.84443
 0.91442 0.00114 0.83777
 0.91155 0.00036 0.15472
 0.49780 0.57056 0.00212
 0.00056 0.93137 0.99837
 0.08729 0.00047 0.16074
 0.09006 0.00042 0.84362
 0.58605 0.50330 0.83661

POSCAR file for gd_product

POSCAR file from zrtcpb-gd-meoh-c.res: C: 144 F: 1 H: 122 O: 66 P: 1 ZR: 12
 34.89200000000000
 0.5792995890490465 -0.0000450140396845 0.0007649282407427
 -0.0000781726227076 1.0082675674799713 0.0000166934211398
 0.0004256087542374 0.0000053656439079 0.3214078049098053

144 1 122 66 1 12

Direct

0.79214	0.88385	0.30130
0.64642	0.62600	0.24569
0.39769	0.34425	0.27633
0.23175	0.78336	0.43658
0.20670	0.81578	0.36646
0.15308	0.80985	0.28963
0.12469	0.84000	0.22888
0.23300	0.85251	0.37618
0.26447	0.34796	0.33910
0.11423	0.90897	0.18593
0.14902	0.87688	0.24445
0.38842	0.59220	0.81415
0.71421	0.62690	0.26831
0.20404	0.88288	0.31700
0.39473	0.40968	0.19416
0.71797	0.27963	0.43429
0.69257	0.31226	0.36668
0.64363	0.30707	0.28003
0.61617	0.33820	0.22295
0.71583	0.34912	0.39031
0.60471	0.40761	0.19379
0.63721	0.37493	0.25199
0.68803	0.38032	0.33432
0.88578	0.84351	0.25538
0.35360	0.62422	0.75539
0.36162	0.37742	0.25520
0.29487	0.37926	0.28665
0.73940	0.24698	0.37478
0.24933	0.74980	0.37788
0.25699	0.25007	0.62201

0.74183	0.75333	0.62126
0.25187	0.75113	0.62330
0.75024	0.25081	0.62116
0.74884	0.75340	0.37593
0.20694	0.18531	0.63181
0.25014	0.25071	0.37587
0.29487	0.61876	0.69255
0.76615	0.78636	0.43772
0.23071	0.21803	0.43760
0.20241	0.18554	0.37219
0.14602	0.19120	0.30207
0.11552	0.16075	0.24634
0.22880	0.14884	0.38158
0.10611	0.09187	0.20281
0.14035	0.12398	0.26145
0.23309	0.78395	0.56234
0.19759	0.11813	0.32824
0.79406	0.81859	0.36997
0.20656	0.81666	0.63060
0.14166	0.81380	0.67361
0.11249	0.84402	0.73297
0.24214	0.85016	0.65111
0.11302	0.91019	0.80684
0.23432	0.21773	0.56310
0.14710	0.87811	0.74691
0.21221	0.88110	0.70641
0.76164	0.85356	0.35875
0.72210	0.28120	0.55986
0.14115	0.18753	0.67049
0.69301	0.31399	0.62360
0.62467	0.32045	0.61591
0.59624	0.35223	0.66833
0.88906	0.91056	0.18960
0.73230	0.33997	0.68573
0.72713	0.72070	0.43399
0.60609	0.41200	0.78762
0.63650	0.37909	0.72446
0.70439	0.37276	0.73334
0.85454	0.87889	0.25033
0.94128	0.57189	0.71793
0.95214	0.53776	0.90928
0.87574	0.59332	0.89537
0.77222	0.21823	0.56155
0.11164	0.15705	0.72821
0.80195	0.18643	0.62782
0.85572	0.19272	0.70392
0.88666	0.16239	0.75971
0.77840	0.14923	0.61266
0.70178	0.68844	0.36254
0.89887	0.09318	0.79821
0.86464	0.12526	0.73942
0.80982	0.11879	0.66673
0.24293	0.15211	0.65435
0.11319	0.09100	0.80457
0.14682	0.12326	0.74442
0.21267	0.12091	0.70756
0.72316	0.72055	0.55959
0.69739	0.68772	0.62662
0.26912	0.71750	0.56459
0.63411	0.68761	0.33720
0.65115	0.69352	0.71831
0.62448	0.66299	0.78001
0.71672	0.65041	0.59999
0.61238	0.59345	0.81421
0.64277	0.62586	0.74996
0.68871	0.61978	0.65905
0.76294	0.78628	0.56332
0.78915	0.81823	0.63449
0.84575	0.81184	0.70359
0.87590	0.84153	0.76382
0.60688	0.65704	0.27696
0.29478	0.68520	0.63475
0.76173	0.85478	0.63224
0.88699	0.91009	0.81186
0.81225	0.44803	0.80378
0.85050	0.87838	0.75478
0.90356	0.55895	0.82902
0.84753	0.53154	0.79106
0.79471	0.54973	0.71493
0.79263	0.88475	0.69029
0.80088	0.45626	0.12925
0.85603	0.81374	0.31596
0.27633	0.28275	0.56027
0.30365	0.31548	0.62573
0.35904	0.31020	0.69858
0.38871	0.34097	0.75403
0.27716	0.35208	0.61353
0.39761	0.40992	0.79449

0.35249	0.69063	0.70166
0.36382	0.37762	0.73623
0.27315	0.28298	0.43473
0.30740	0.38308	0.66695
0.74195	0.65853	0.32328
0.76639	0.21634	0.43626
0.79555	0.18400	0.36981
0.86383	0.18409	0.34866
0.30107	0.31537	0.36650
0.89374	0.15385	0.29047
0.75772	0.15307	0.33147
0.88986	0.09026	0.19654
0.38138	0.66056	0.76203
0.85616	0.12219	0.25794
0.78810	0.12177	0.27907
0.61304	0.59324	0.18830
0.36792	0.31379	0.33381
0.26778	0.71689	0.43880
0.29349	0.68415	0.36999
0.35476	0.68833	0.31277
0.38329	0.65807	0.25259
0.26059	0.64922	0.36178
0.38608	0.59061	0.19070
0.35188	0.62267	0.25085
0.26525	0.64915	0.63447
0.29006	0.61845	0.30487
0.65312	0.42354	1.03459
0.78571	0.33499	0.69273
0.54256	0.35650	0.66582
0.59382	0.29997	0.56779
0.74508	0.60267	0.24236
0.23883	0.90788	0.71968
0.29384	0.85201	0.62223
0.06203	0.84210	0.76810
0.11395	0.78749	0.65834
0.79528	0.65958	0.34038
0.28783	0.41190	0.65632
0.23235	0.35611	0.56068
0.43218	0.33745	0.81095
0.55419	0.65620	0.25496
0.37963	0.28158	0.70873
0.73774	0.24619	0.27710
0.60284	0.71125	0.36670
0.77278	0.91366	0.68514
0.71576	0.85973	0.58355
0.92055	0.83709	0.81701
0.86695	0.78320	0.70653
0.24921	0.74940	0.28010
0.70175	0.59060	0.63541
0.75400	0.64537	0.53122
0.58822	0.66711	0.85146
0.63512	0.72254	0.73901
0.23984	0.09434	0.72111
0.29502	0.15060	0.62758
0.06050	0.15853	0.76018
0.11301	0.21356	0.65331
0.70473	0.40929	0.35348
0.75555	0.35304	0.45523
0.57724	0.33497	0.15605
0.62575	0.27829	0.26095
0.22312	0.91181	0.32750
0.27660	0.85726	0.43159
0.08220	0.83588	0.17002
0.13254	0.78115	0.28101
0.26547	0.59074	0.30185
0.21122	0.64620	0.40085
0.43093	0.66096	0.20690
0.38035	0.71573	0.31807
0.74066	0.75304	0.71902
0.75918	0.09676	0.25341
0.70413	0.15319	0.34659
0.94680	0.15392	0.27061
0.89335	0.20836	0.37880
0.25859	0.25015	0.71972
0.21713	0.08924	0.33672
0.27444	0.14449	0.43178
0.07149	0.16462	0.19108
0.12548	0.21991	0.29411
0.70224	0.52772	0.19349
0.58445	0.49760	0.58057
0.29344	0.52556	0.85529
0.42023	0.50568	0.42521
0.49499	0.49837	0.35786
0.57877	0.47240	0.36939
0.50887	0.50284	0.64326
0.42617	0.47517	0.62545
0.36355	0.44536	0.99269
0.49939	0.55407	0.25498

0.50591	0.55656	0.75010
0.64669	0.44826	0.98994
0.30574	0.50162	0.98622
0.28944	0.52403	0.13518
0.08001	0.02526	0.37886
0.21868	0.02192	0.86405
0.19789	0.99926	0.00614
0.99549	0.00240	0.35551
0.78393	0.02181	0.13244
0.80515	0.00032	0.99338
0.92395	0.02662	0.62012
0.00742	0.00302	0.64283
0.13947	0.05572	0.00761
0.86430	0.05630	0.99165
0.00098	0.94519	0.24930
0.00138	0.94575	0.74786
0.21099	0.97563	0.14057
0.92128	0.99150	0.41790
0.79124	0.97839	0.85277
0.08152	0.99098	0.58143
0.26732	0.40544	0.26868
0.21172	0.34896	0.36165
0.44958	0.34312	0.24828
0.39658	0.28826	0.35506
0.75271	0.25179	0.71878
0.76815	0.91166	0.29428
0.71177	0.85687	0.39538
0.93413	0.84028	0.21245
0.88109	0.78625	0.32405
0.25227	0.75158	0.72106
0.27316	0.59027	0.68891
0.21842	0.64500	0.58775
0.42686	0.66428	0.81343
0.37549	0.71883	0.70300
0.75147	0.75352	0.27828
0.79241	0.08960	0.65424
0.73494	0.14439	0.55686
0.92890	0.16668	0.81911
0.87413	0.22176	0.71624
0.24844	0.25066	0.27817
0.73429	0.39346	0.78163
0.81478	0.41945	0.84276
0.78530	0.44628	0.71860
0.86248	0.45878	0.78697
0.87247	0.50872	0.73869
0.81652	0.56436	0.63728
0.76623	0.57026	0.76835
0.75914	0.52840	0.68250
0.78113	0.43511	0.19248
0.72745	0.48791	0.13026
0.80464	0.48435	0.17224
0.85029	0.44741	0.09855
0.96864	0.51087	0.86766
0.99647	0.55535	0.92535
0.92980	0.53095	0.99620
0.91639	0.61095	0.93082
0.84549	0.61145	0.83659
0.84438	0.58418	0.97083
0.96083	0.54727	0.66766
0.98386	0.58964	0.74420
0.91031	0.58890	0.65724
0.43831	0.40035	0.11762
0.93905	0.10222	0.88076
0.37154	0.55824	0.78824
0.56823	0.60229	0.89066
0.13215	0.05719	0.78171
0.06750	0.10029	0.87697
0.63089	0.55984	0.78921
0.43854	0.40087	0.87547
0.87065	0.94413	0.78639
0.93354	0.90077	0.11523
0.37717	0.44338	0.22049
0.93381	0.90044	0.88110
0.38410	0.44381	0.76216
0.43216	0.60003	0.11956
0.87002	0.05641	0.21661
0.93629	0.09986	0.12629
0.36858	0.55658	0.21498
0.87339	0.94452	0.21673
0.56612	0.39930	0.10842
0.13144	0.94289	0.21148
0.06778	0.89983	0.11526
0.61659	0.44107	0.23146
0.19347	0.99976	0.11100
0.94123	0.00302	0.34724
0.69477	0.50004	0.18748
0.44089	0.49996	0.34848
0.80725	0.99962	0.10150

0.06373	0.00089	0.34867
0.30905	0.50075	0.10343
0.56296	0.49791	0.34864
0.81019	0.00183	0.88473
0.06191	0.00332	0.65102
0.30973	0.50113	0.88491
0.56223	0.50642	0.65277
0.19521	0.99961	0.89371
0.93955	0.00197	0.64932
0.43968	0.50080	0.64960
0.00167	0.96146	0.17908
0.49973	0.47068	0.13125
0.99939	0.02971	0.13351
0.50068	0.53901	0.18211
0.00098	0.96189	0.81836
0.50528	0.47302	0.86618
0.00419	0.03018	0.86606
0.50312	0.54067	0.82115
0.07479	0.97137	0.99899
0.60530	0.46339	0.00149
0.90317	0.03998	0.99368
0.42939	0.52953	-0.00025
0.92798	0.97170	0.99840
0.40218	0.46193	0.99337
0.10043	0.03954	0.00567
0.57696	0.53077	0.00312
0.56399	0.60204	0.12361
0.12018	0.05798	0.23405
0.06476	0.10110	0.12246
0.63283	0.55955	0.20955
0.56547	0.40214	0.86852
0.12926	0.94405	0.77998
0.06807	0.90056	0.88068
0.62206	0.44578	0.76053
0.43430	0.60145	0.88566
0.88570	0.05938	0.76485
0.70248	0.49955	0.86742
0.81953	0.51541	0.89638
0.75516	0.45666	0.03218
0.76631	0.47892	0.90359
0.58550	0.49955	0.16116
0.00189	0.06991	0.00035
0.50287	0.43183	0.99466
0.41138	0.49998	0.15553
0.41672	0.50105	0.83756
0.91530	0.00138	0.83716
0.91203	0.00037	0.15431
0.50133	0.56997	0.00221
0.00114	0.93140	0.99822
0.08781	0.00050	0.16096
0.09115	0.00048	0.84353
0.59432	0.50208	0.84507