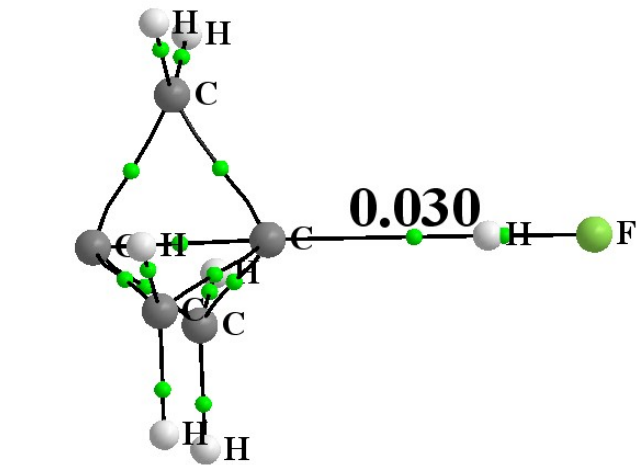
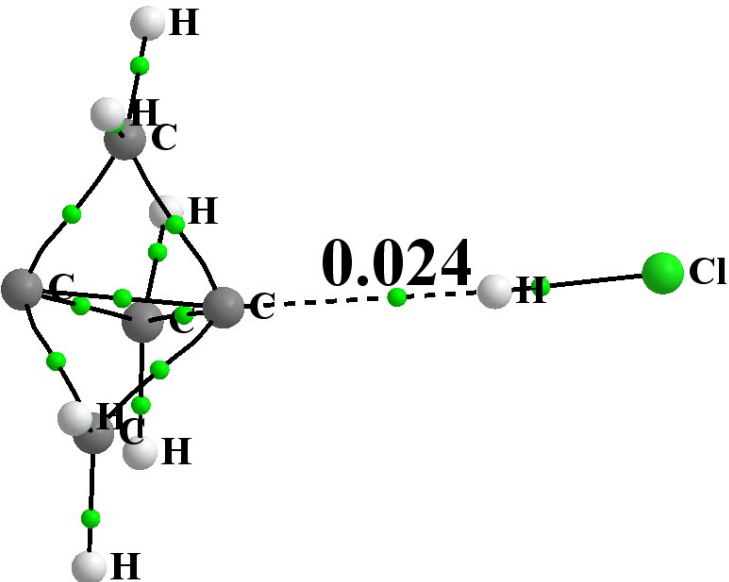


SUPPORTING INFORMATION

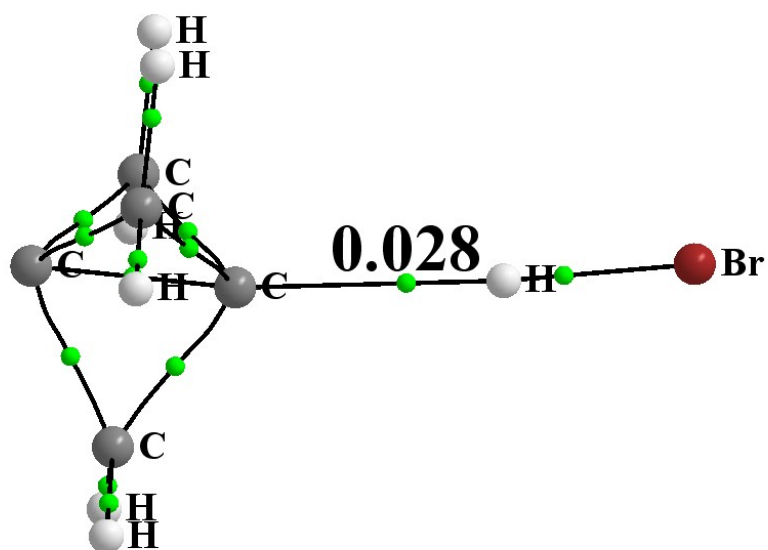
Ability of Strained C Atoms to Act as Electron Donor

Mariusz Michalczyk Wiktor Zierkiewicz, and Steve Scheiner

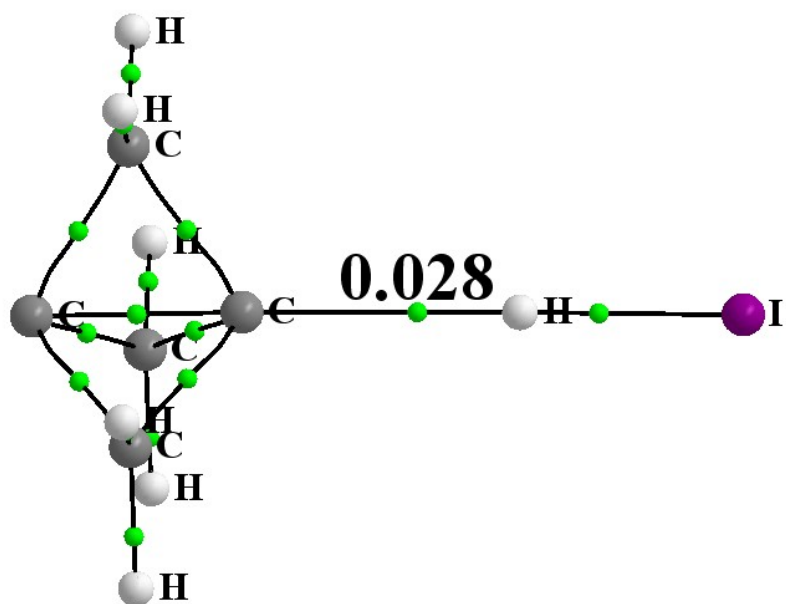
Fig. S1 QTAIM molecular diagrams for fully optimized complexes. The density of the critical point is shown in au.

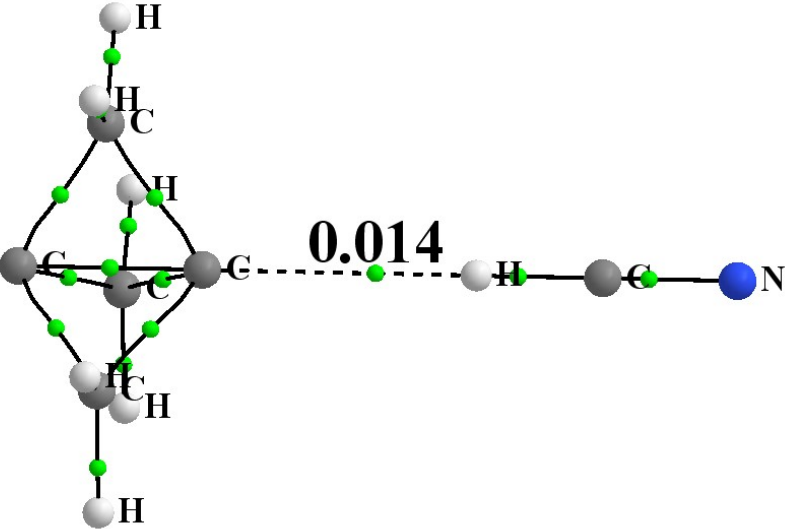
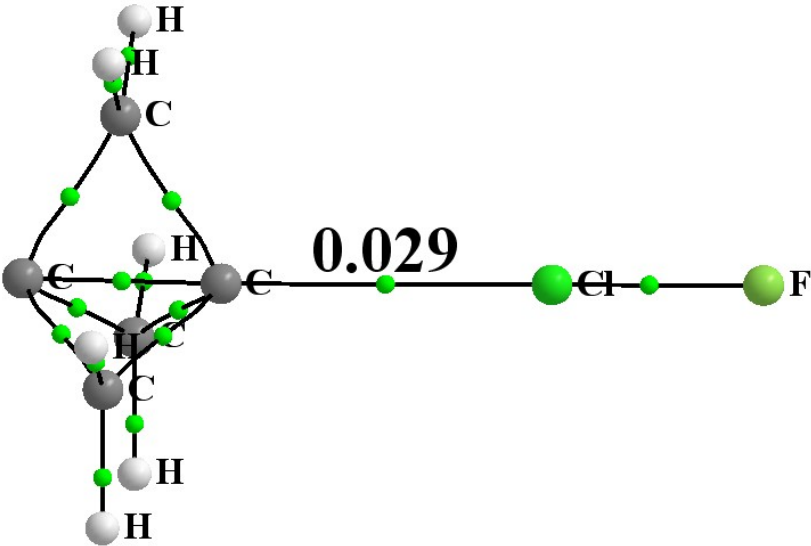
[1.1.1]propellane	
HF	
HCl	

HBr

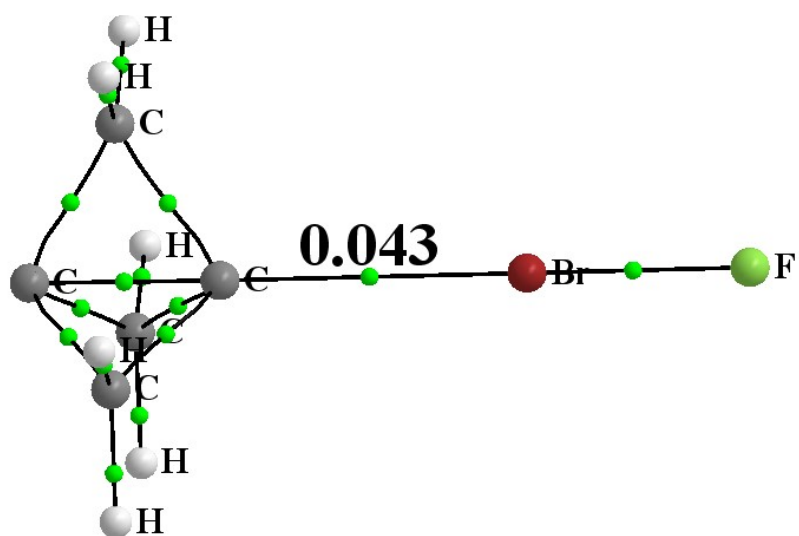


HI

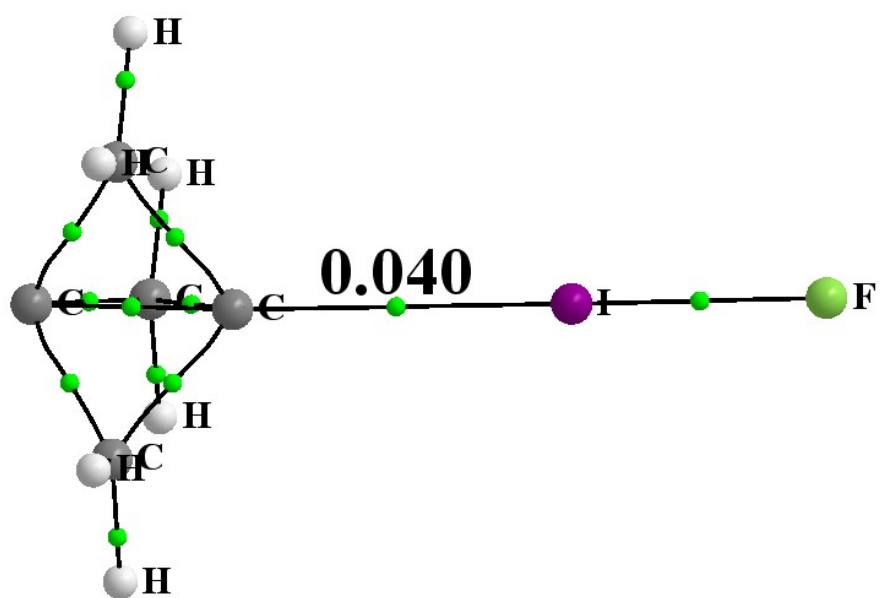


HCN	 The diagram illustrates the hydrogen bonding interaction between a water molecule (H₂O) and a hydrogen cyanide (HCN) molecule. The water molecule is shown on the left, with its oxygen atom (red) and two hydrogen atoms (white). The HCN molecule is on the right, with its carbon atom (grey) and nitrogen atom (blue). A dashed line represents the hydrogen bond between a hydrogen atom of the water molecule and the carbon atom of the HCN molecule. The value 0.014 is displayed next to the dashed line, indicating the strength of the hydrogen bond.
FCl	 The diagram illustrates the hydrogen bonding interaction between a water molecule (H₂O) and a hydrogen chloride (HCl) molecule. The water molecule is shown on the left, with its oxygen atom (red) and two hydrogen atoms (white). The HCl molecule is on the right, with its hydrogen atom (white) and chlorine atom (green). A dashed line represents the hydrogen bond between a hydrogen atom of the water molecule and the chlorine atom of the HCl molecule. The value 0.029 is displayed next to the dashed line, indicating the strength of the hydrogen bond.

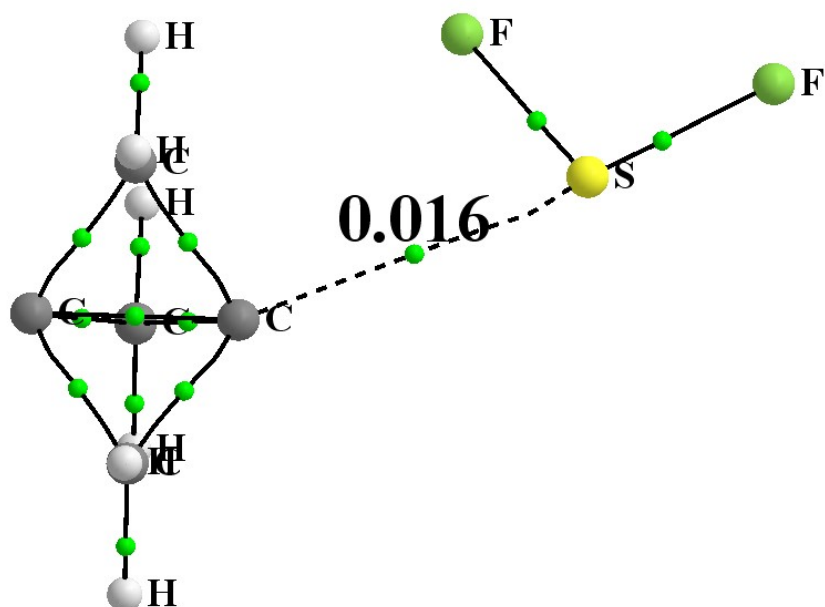
FBr



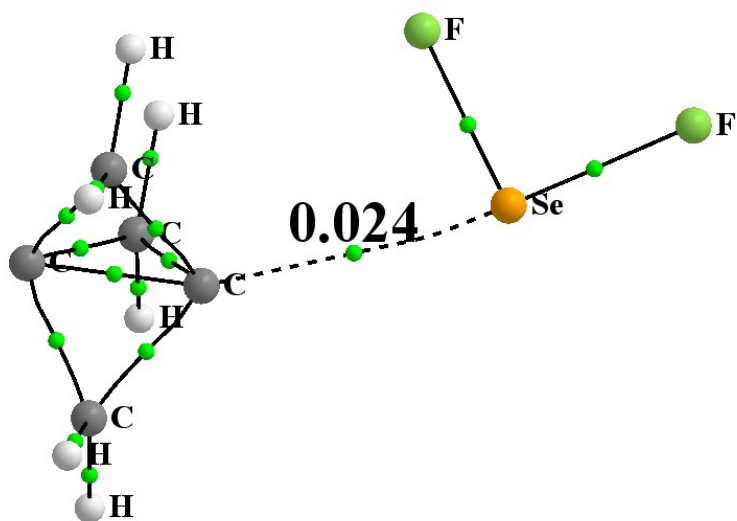
FI



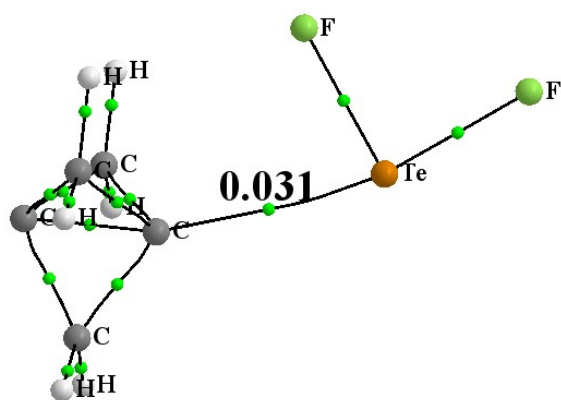
SF₂



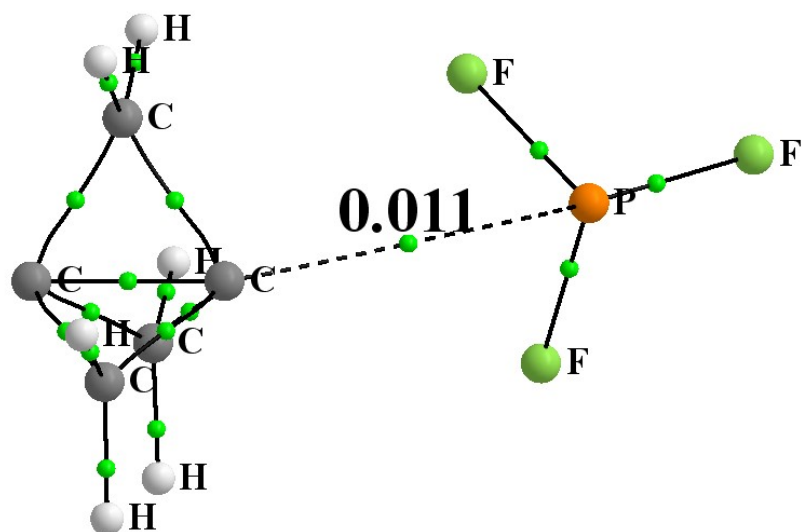
SeF₂



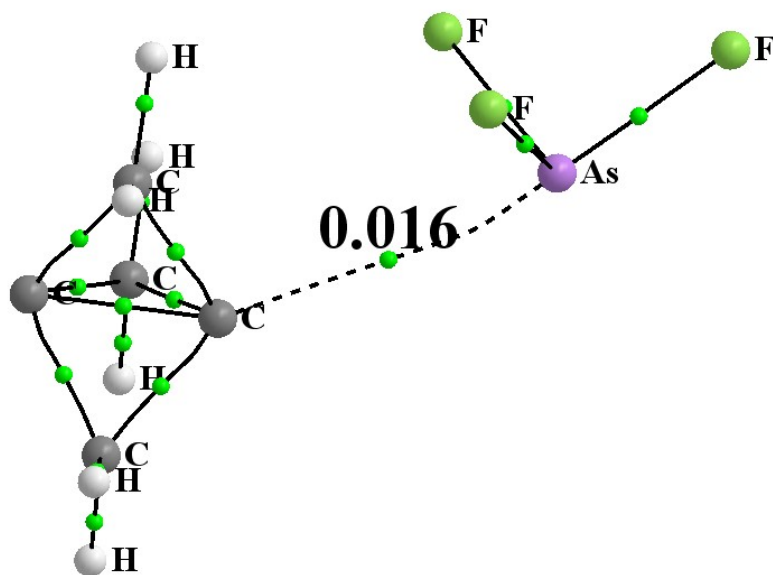
TeF₂



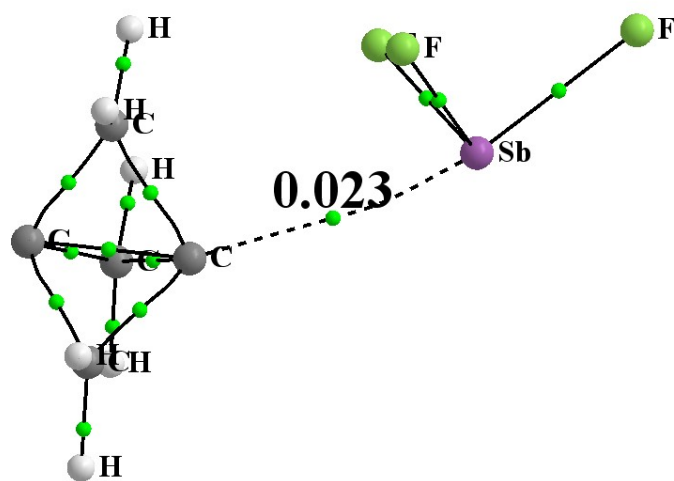
PF₃



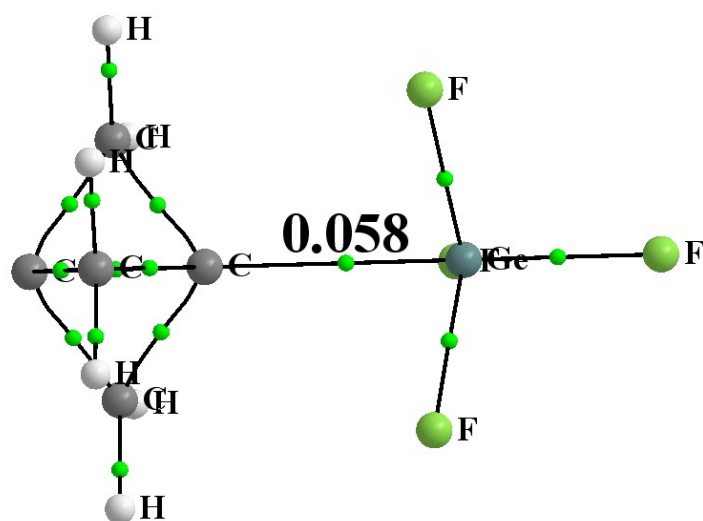
AsF₃



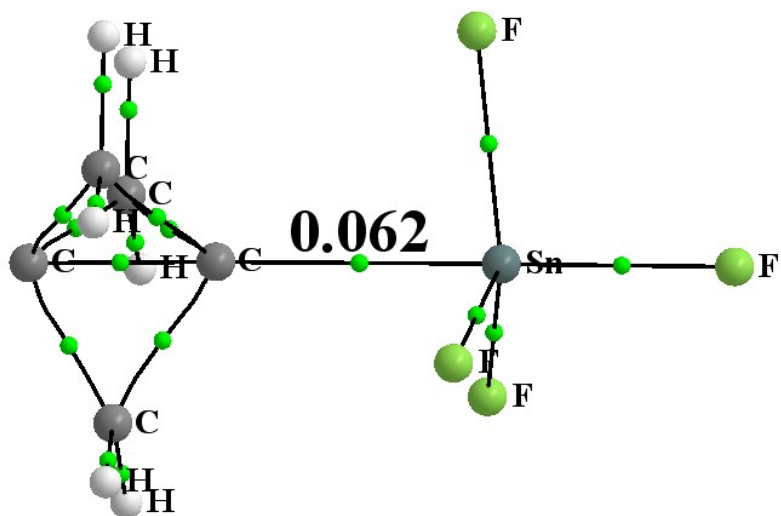
SbF₃

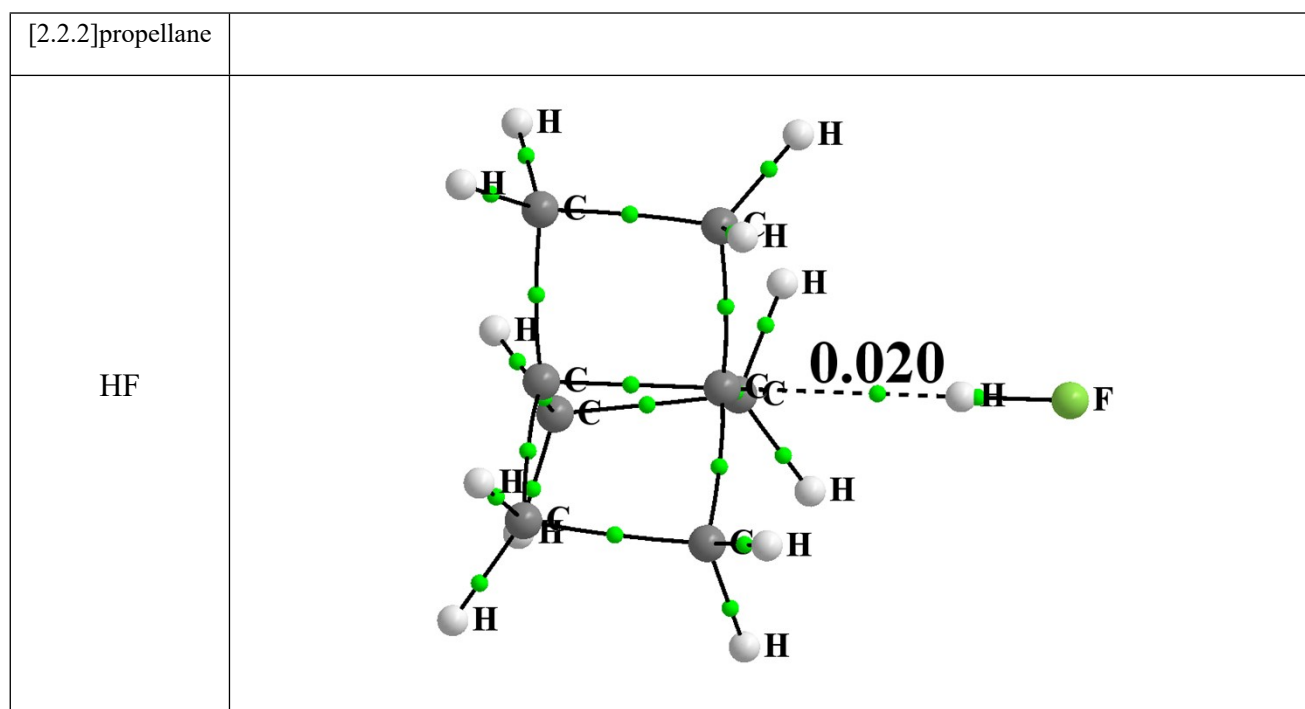
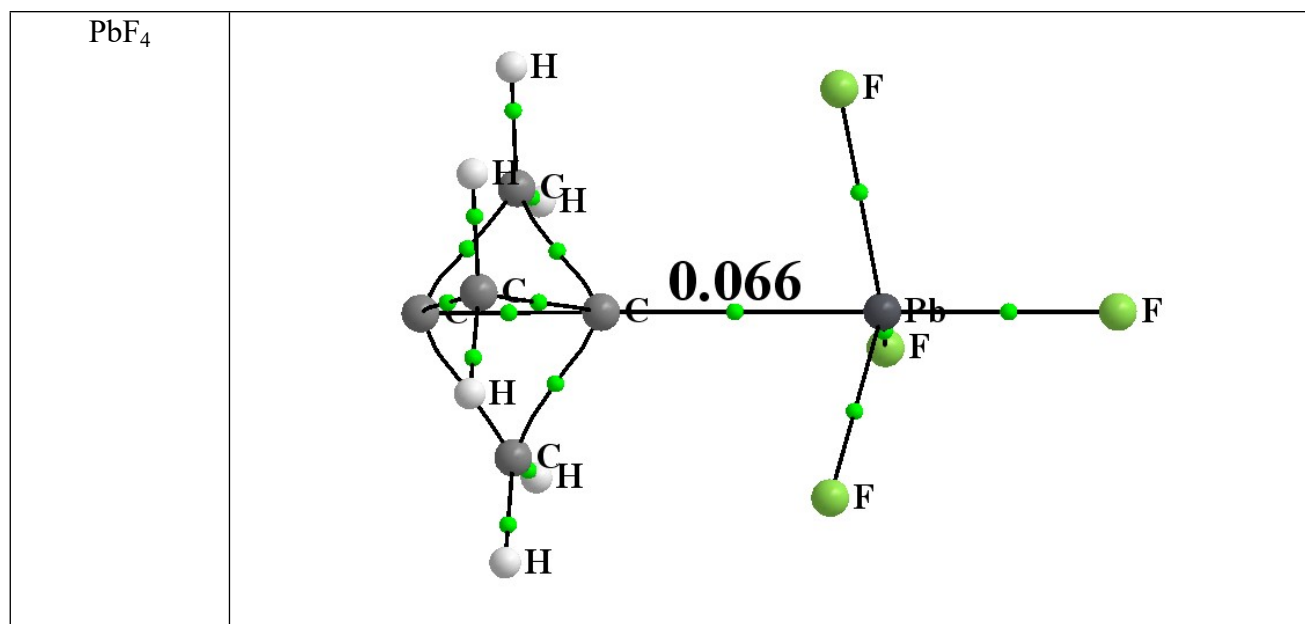


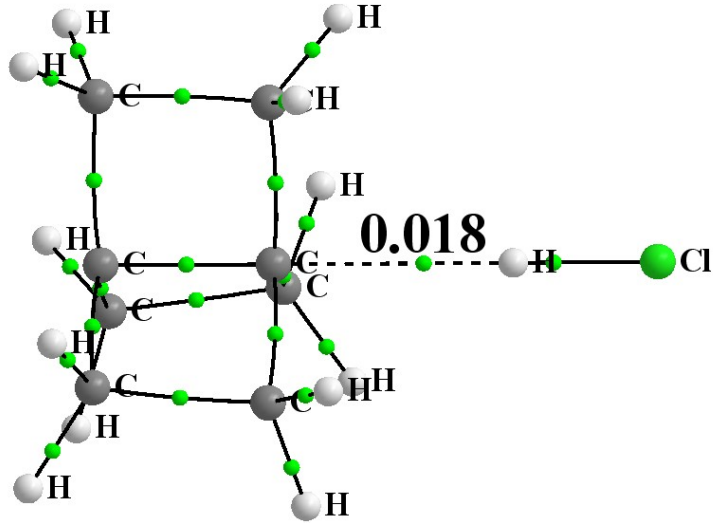
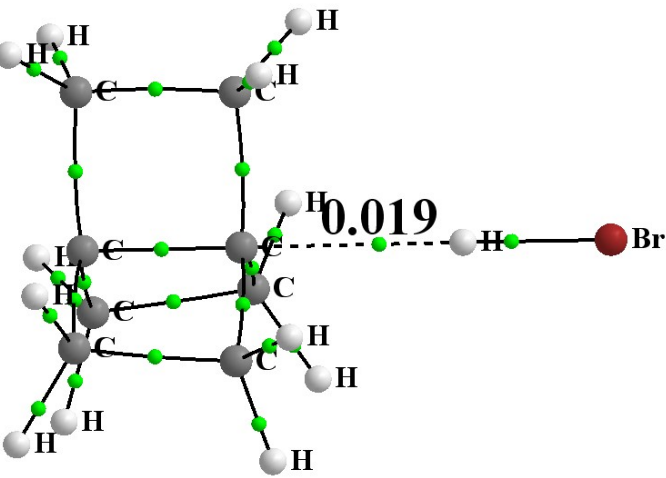
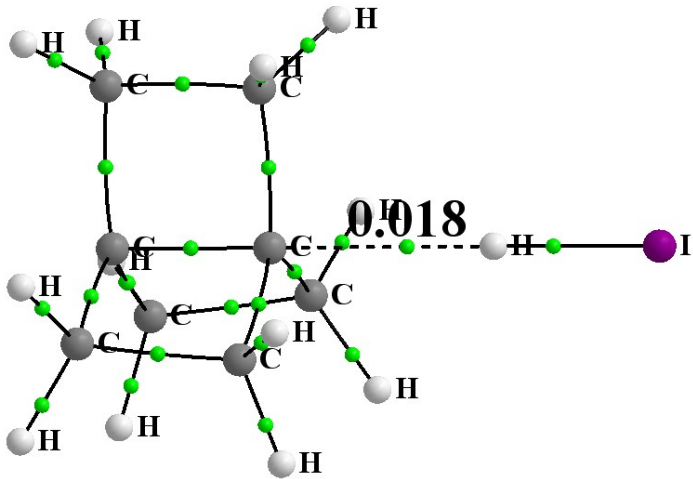
GeF₄

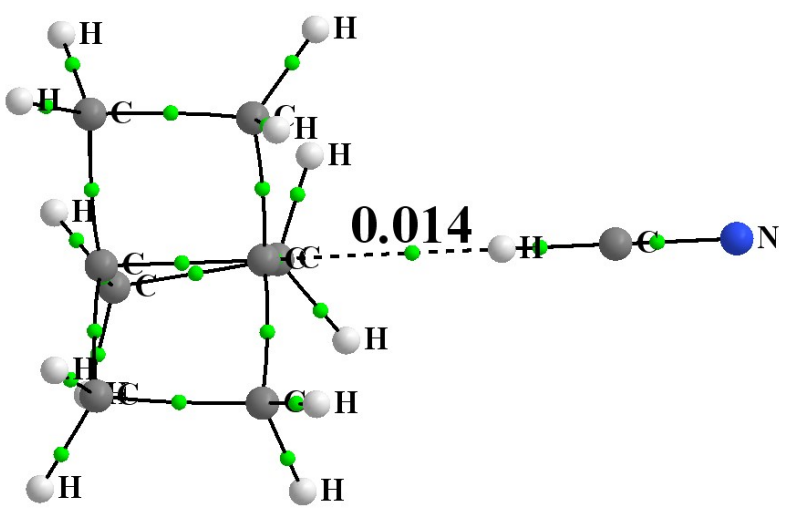
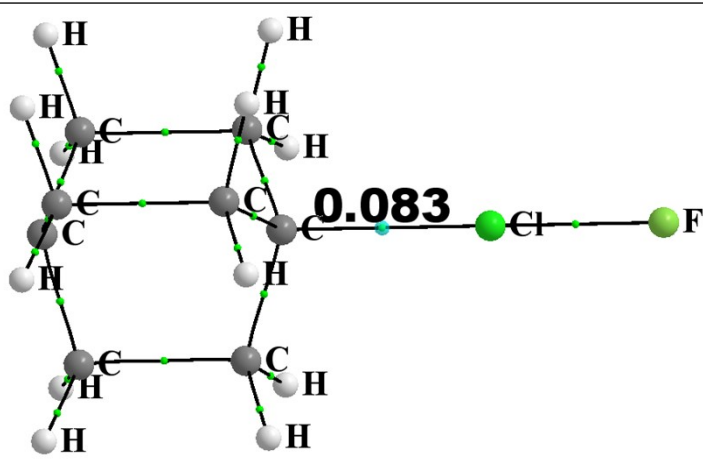
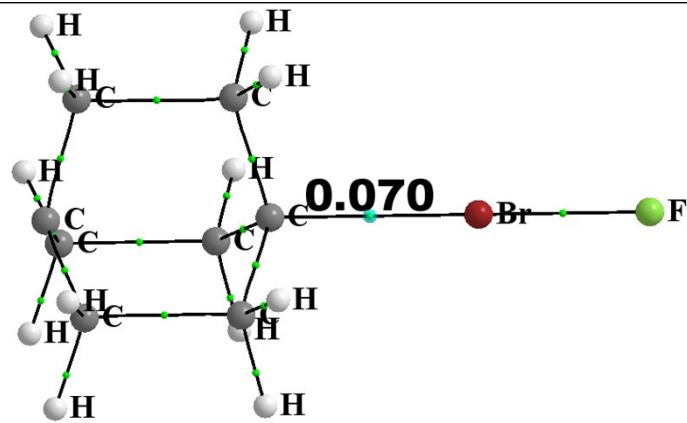


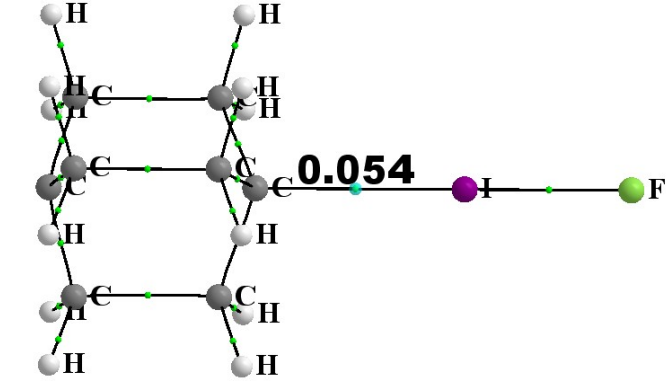
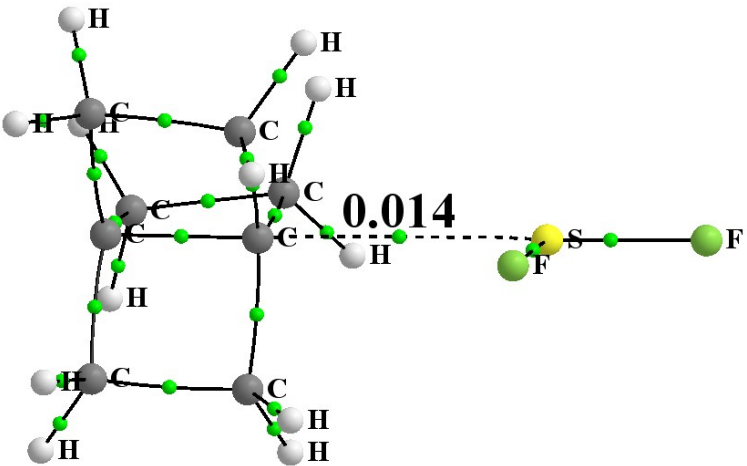
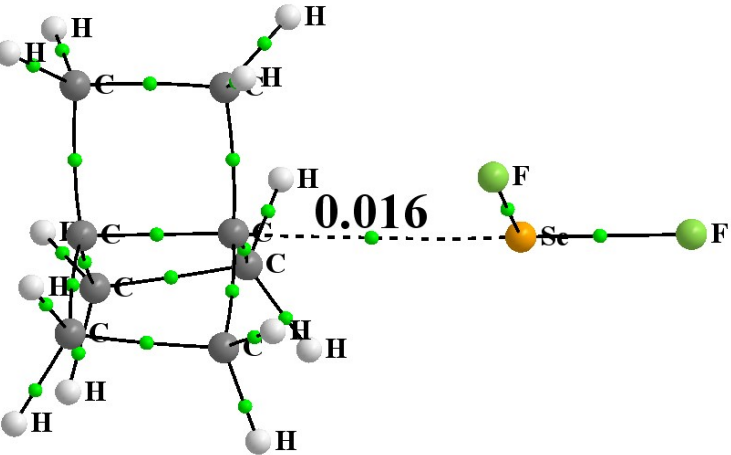
SnF₄



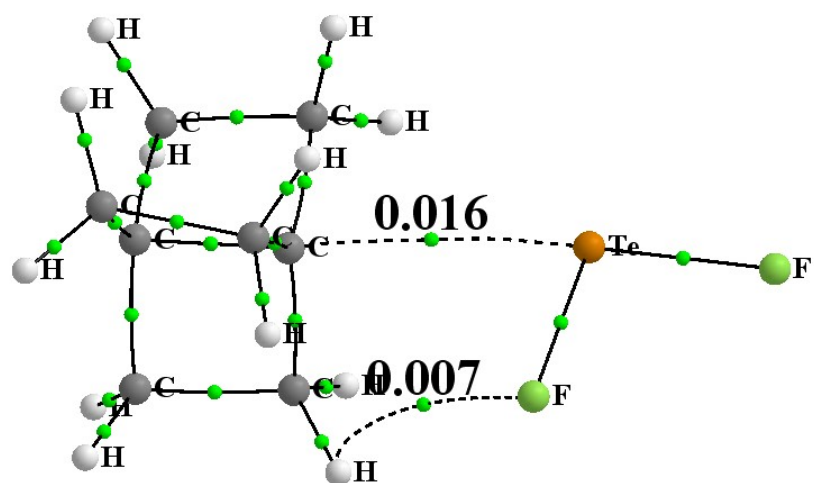


HCl	
HBr	
HI	

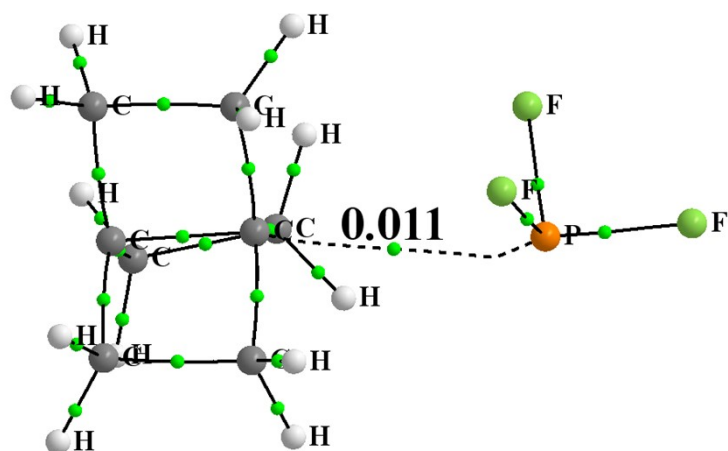
HCN	 0.014
FCl	 0.083
FBr	 0.070

FI	
SF ₂	
SeF ₂	

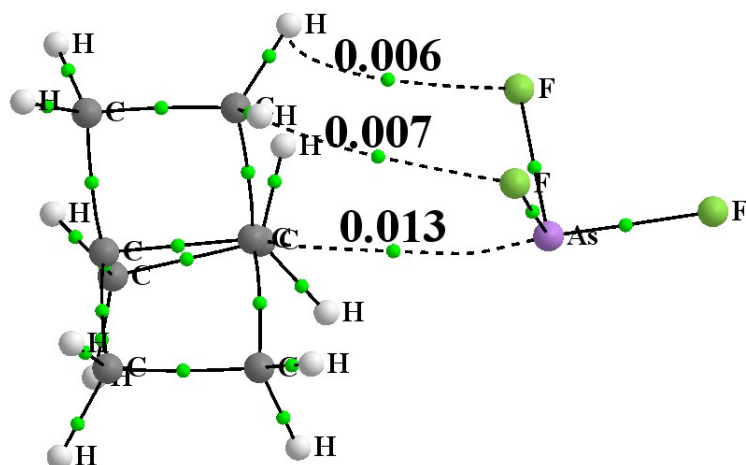
TeF₂



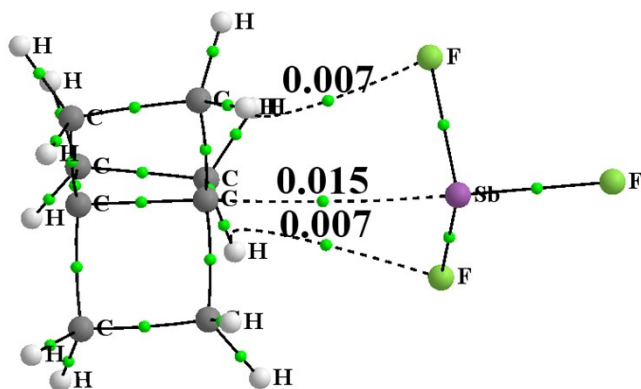
PF₃



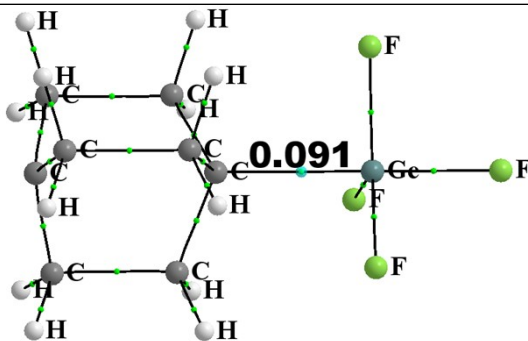
AsF₃



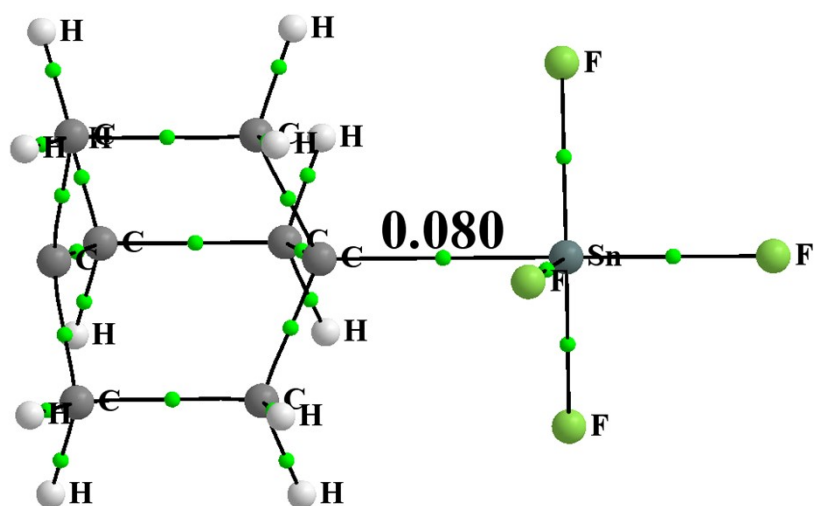
SbF₃



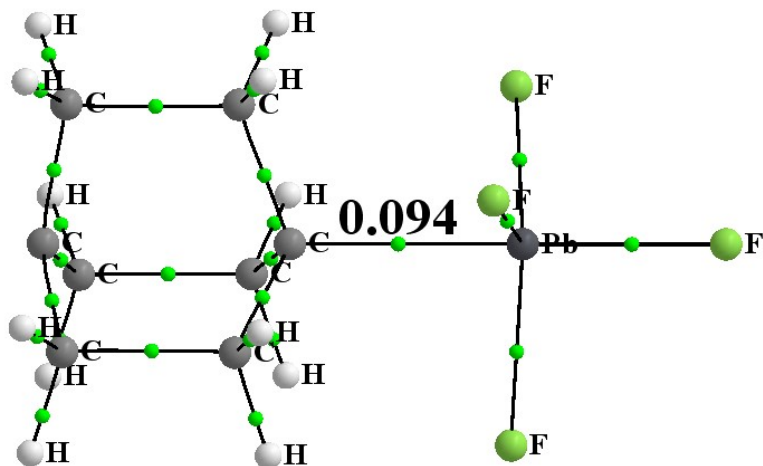
GeF₄



SnF₄

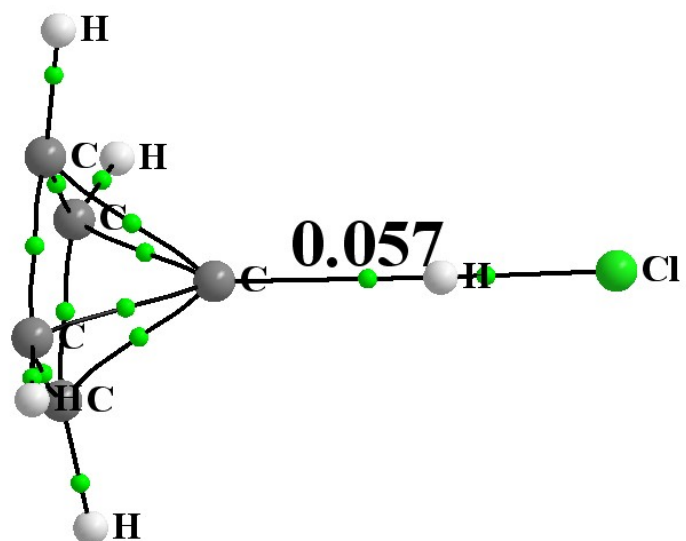


PbF₄

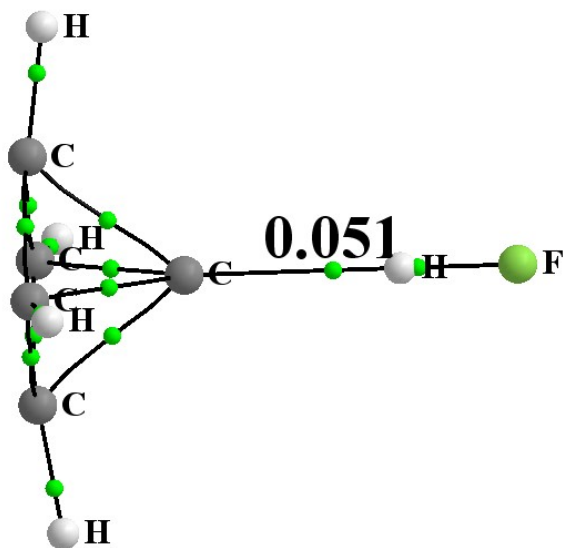


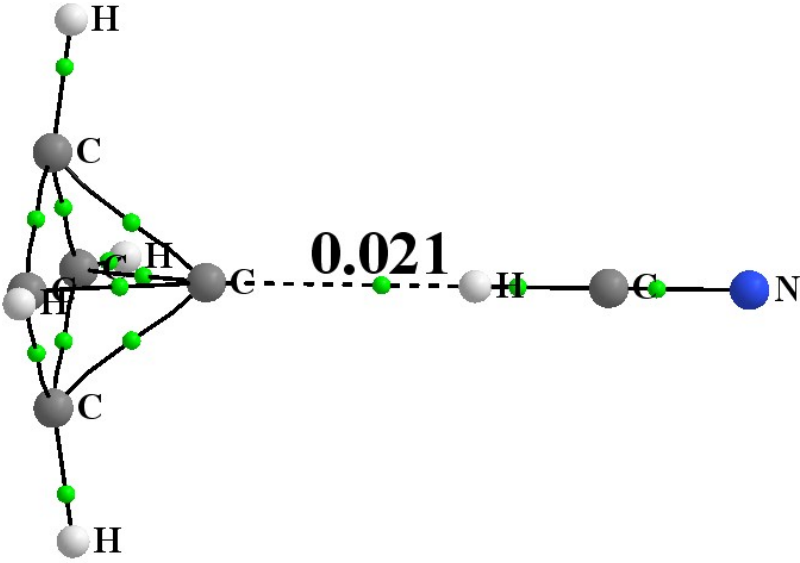
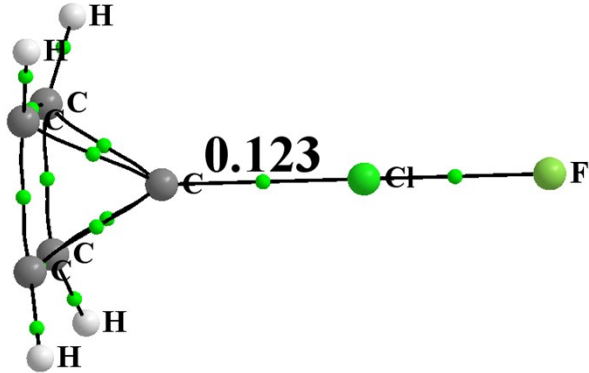
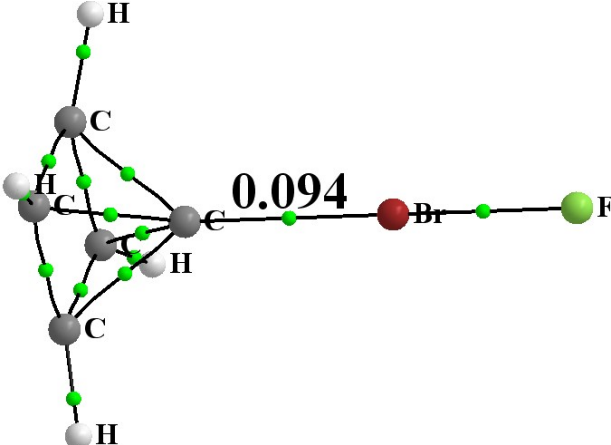
pyramidane

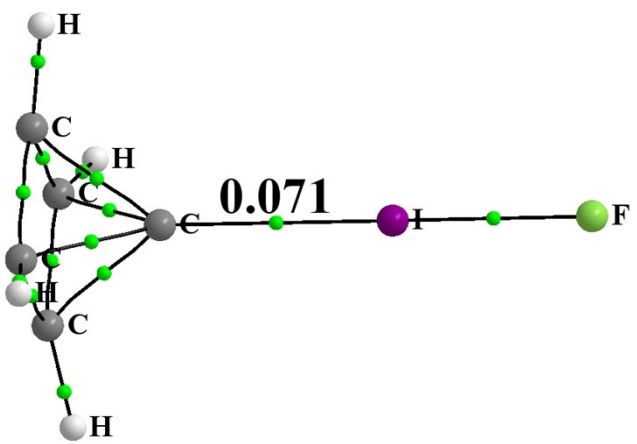
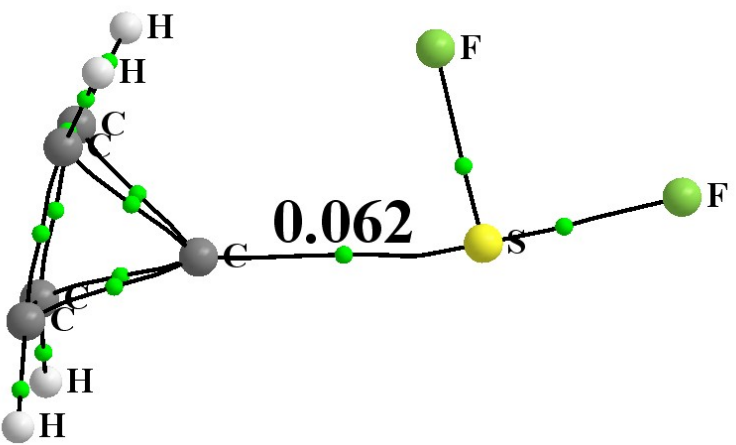
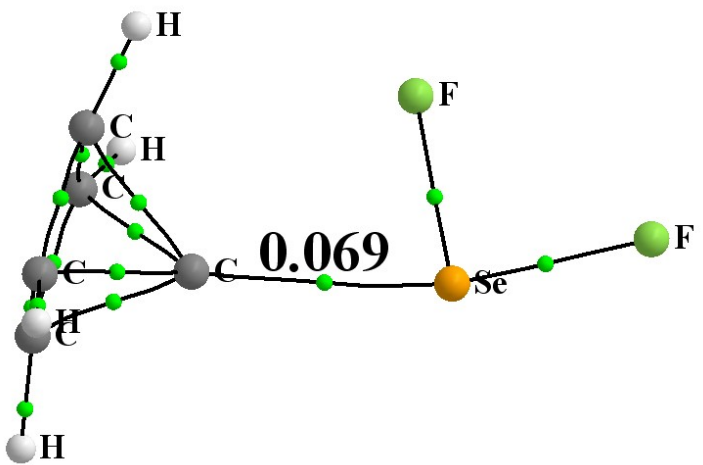
HCl



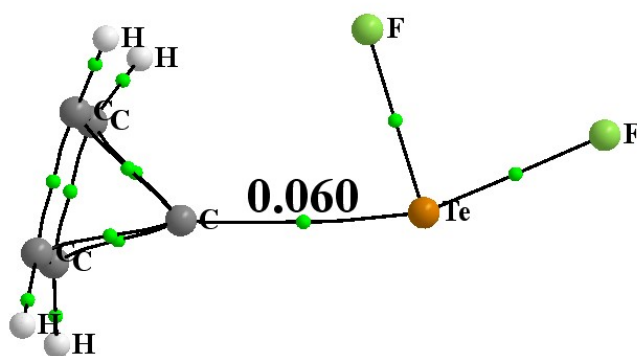
HF



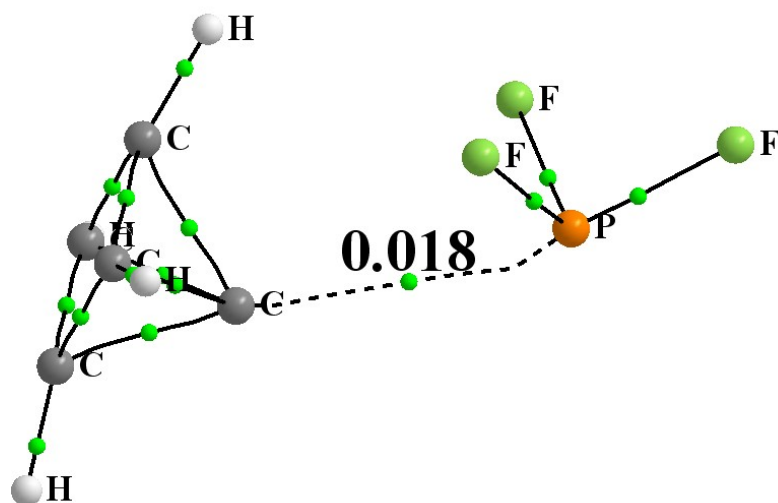
HCN	 0.021
FCl	 0.123
FBr	 0.094

FI	 0.071
SF ₂	 0.062
SeF ₂	 0.069

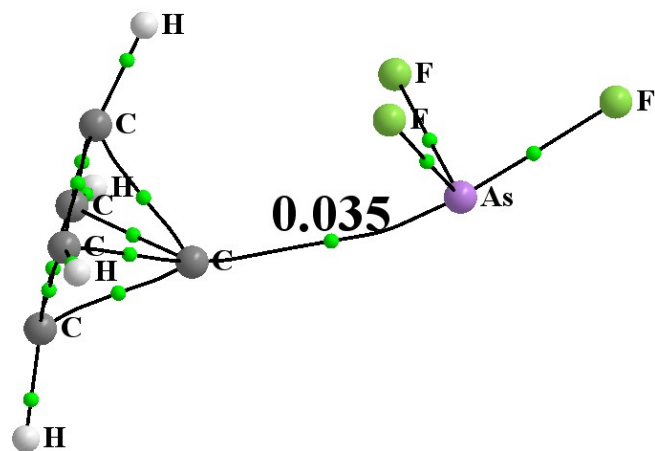
TeF₂



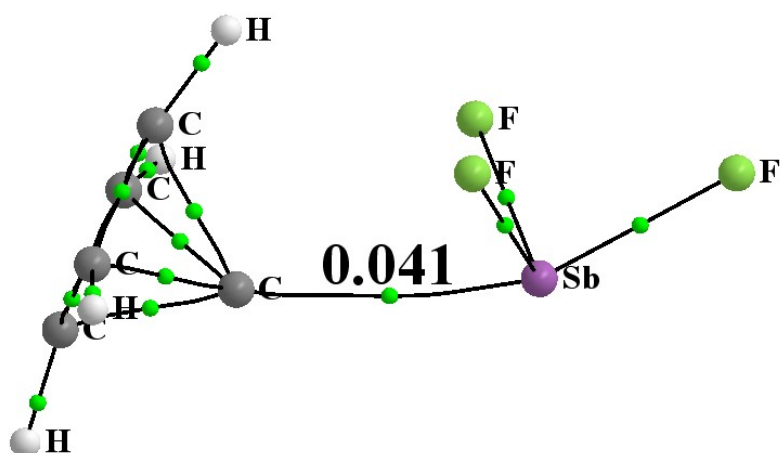
PF₃



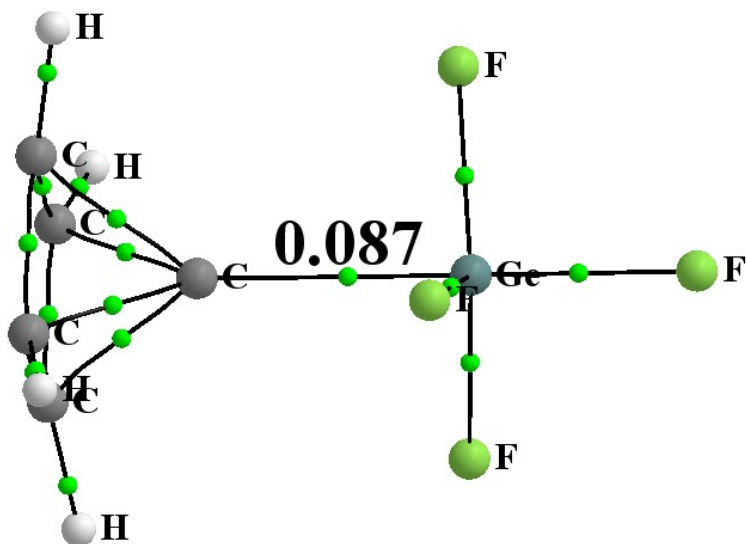
AsF₃

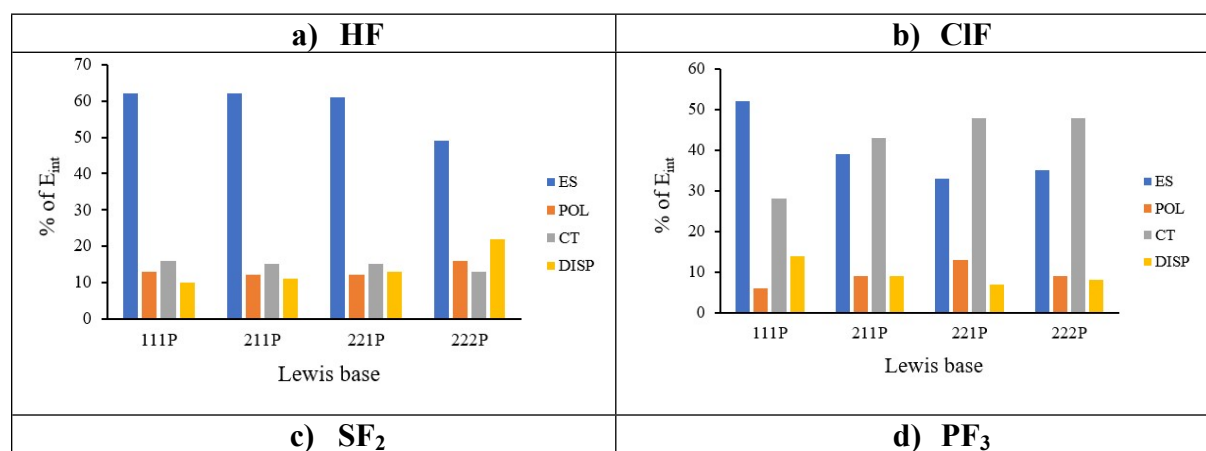
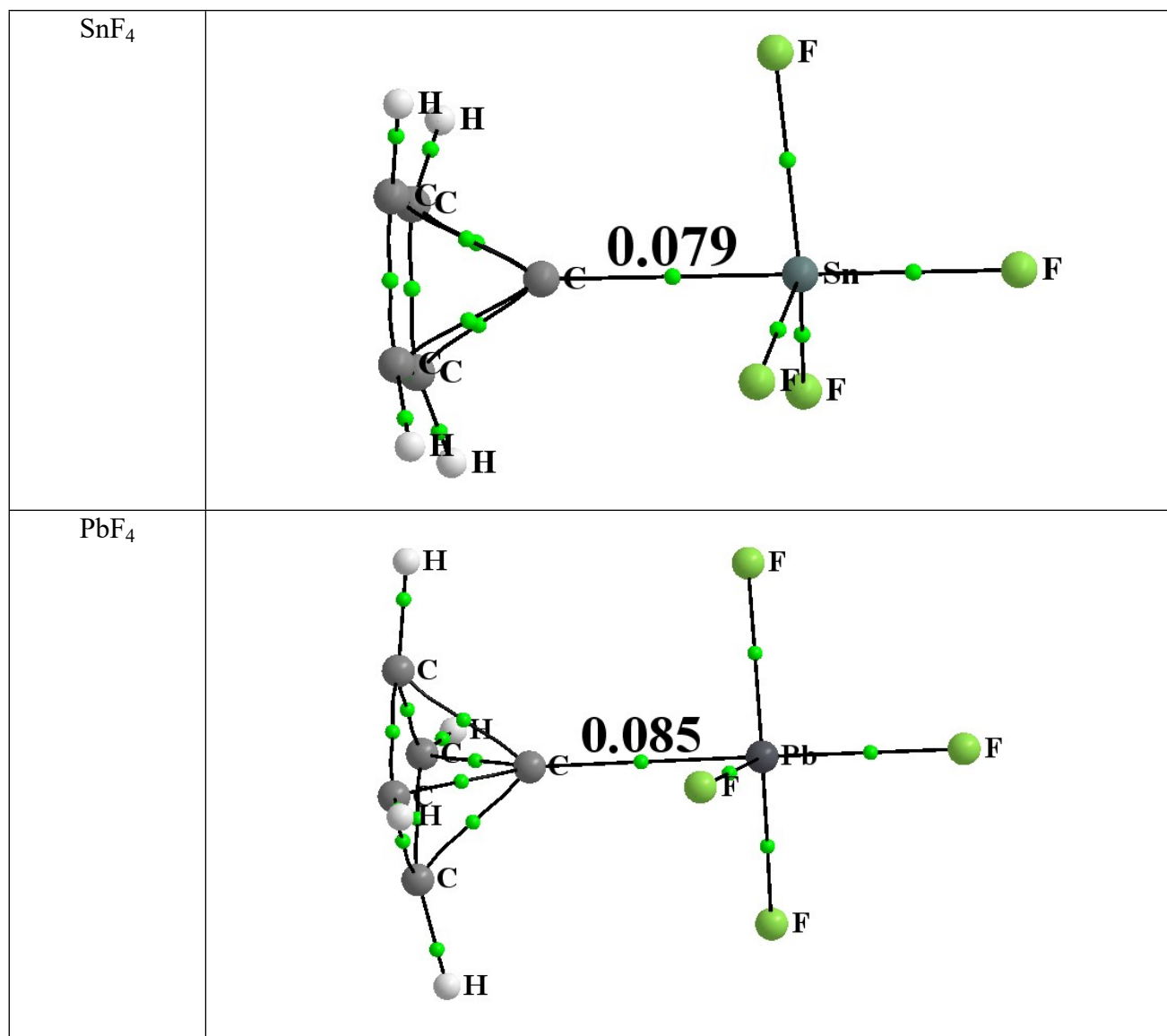


SbF₃



GeF₄





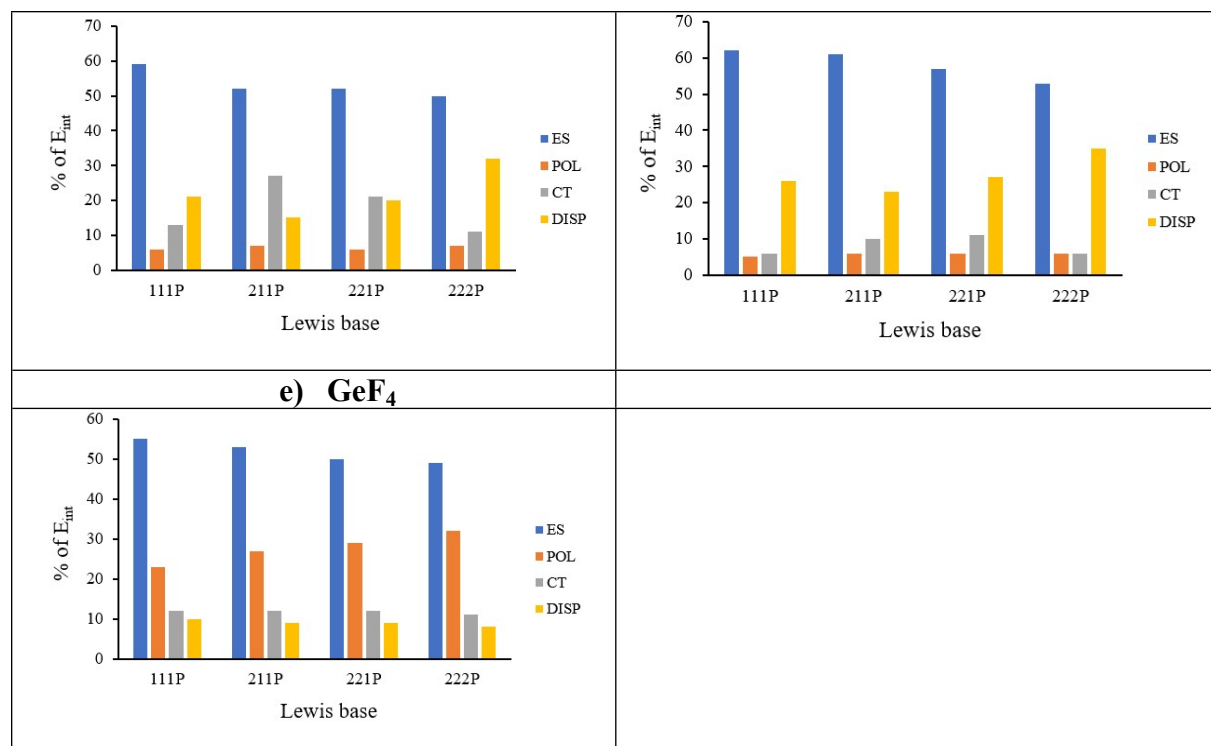


Fig. S2. Percentage contributions of ALMO-EDA decomposition terms of interaction energies for selected dimers. ES= electrostatic term, POL = polarization, CT = charge transfer, DISP = dispersion, Percentage contributions are defined as fraction of sum of attractive elements.

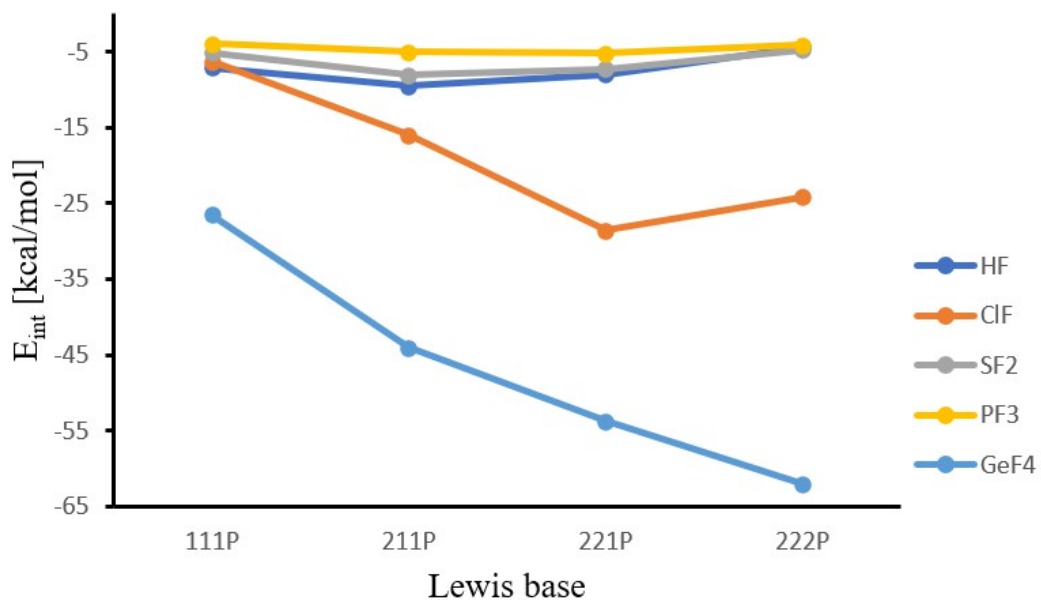


Fig. S3. Comparison of interaction energies for selected dimers.

Table S1.

Singlet-triplet separations (kcal/mol) and T1 diagnostic parameter for monomers and selected complexes

monomer	Triplet - Singlet	T1 value
111P	98.25	0.010
222P	11.50	0.009
pyramidane	75.16	0.010
dimer		
111P...BrF	77.00	0.011
111P...SnF ₄	124.40	0.014
222P...BrF	68.43	0.010
222P...SnF ₄	58.27	0.019
pyramidane...BrF	113.83	0.012
pyramidane...SnF ₄	166.44	0.013

Table S2. Bond dissociation energies of optimized dimers (kcal/mol) calculated at M06-2X/def2-TZVPP level of theory.

Dimer	111P	222P	pyramidane
HF	-5.03	-3.26	-11.41
HCl	-3.27	-2.80	-8.08
HBr	-2.85	-2.29	-10.97
HI	-2.30	-2.36	-15.87
HCN	-1.99	-1.44	-5.39
ClF	-5.48	-13.53	-15.25
BrF	-8.32	-18.30	-20.68
IF	-10.99	-20.71	-23.94
SF ₂	-4.19	-3.89	-8.48
SeF ₂	-6.84	-5.30	-15.37

TeF ₂	-10.32	-6.96	-21.34
PF ₃	-3.18	-3.47	-5.40
AsF ₃	-6.33	-4.79	-10.58
SbF ₃	-9.07	-6.51	-17.21
GeF ₄	-8.29	-19.26	-24.81
SnF ₄	-21.64	-35.43	-38.10
PbF ₄	-22.84	-42.99	-38.91

Table S3. ALMO-EDA decomposition of interaction energies (kcal/mol) for complexes involving 111P. ES= electrostatic term, PAULI = Pauli repulsion, DISP = dispersion, POL = polarization, CT = charge transfer.

	ES	EX	DISP	POL	CT	Total
HF	-13.86	15.35	-2.21	-2.82	-3.51	-7.05
HCl	-10.22	13.02	-2.16	-1.62	-3.44	-4.42
HBr	-10.97	15.95	-2.46	-1.83	-4.86	-4.16
HI	-7.31	14.75	-3.64	-1.59	-5.39	-3.18
HCN	-7.01	6.72	-1.23	-1.06	-1.26	-3.84
FCI	-15.59	23.66	-4.25	-1.70	-8.43	-6.31
FBr	-23.53	38.64	-5.55	-4.62	-14.95	-10.01
FI	-25.68	41.36	-8.11	-6.87	-13.59	-12.89
SF ₂	-13.05	16.97	-4.75	-1.32	-2.97	-5.12
SeF ₂	-19.70	26.24	-6.05	-3.13	-5.57	-8.22
TeF ₂	-22.93	34.37	-8.75	-6.27	-8.89	-12.46
PF ₃	-11.07	13.89	-4.60	-0.93	-1.15	-3.87

AsF ₃	-17.02	20.71	-5.79	-2.28	-2.33	-6.71
SbF ₃	-18.45	25.78	-8.13	-5.02	-4.97	-10.79
GeF ₄	-57.93	79.78	-10.86	-24.30	-13.18	-26.48
SnF ₄	-55.19	73.01	-9.96	-26.78	-17.06	-35.98
PbF ₄	-55.42	77.61	-10.24	-22.29	-23.16	-33.50

Table S4. ALMO-EDA decomposition of interaction energies (kcal/mol) for complexes involving 222P. ES= electrostatic term, PAULI = Pauli repulsion, DISP = dispersion, POL = polarization, CT = charge transfer.

	ES	EX	DISP	POL	CT	Total
HF	-6.96	9.72	-3.09	-2.19	-1.85	-4.37
HCl	-6.04	9.60	-3.62	-1.40	-2.03	-3.49
HBr	-6.08	10.11	-3.86	-1.33	-2.26	-3.41
HI	-3.66	8.23	-4.34	-1.08	-2.22	-3.07
HCN	-4.44	6.41	-2.53	-1.34	-1.13	-3.04
FCI	-39.06	87.22	-8.70	-10.08	-53.59	-24.20
FBr	-38.47	75.00	-8.41	-11.57	-41.73	-25.18
FI	-46.05	75.64	-12.55	-11.53	-29.29	-23.78
SF ₂	-10.50	16.07	-6.63	-1.36	-2.32	-4.74
SeF ₂	-12.49	18.96	-7.65	-2.36	-2.69	-6.23
TeF ₂	-8.21	16.04	-9.16	-3.57	-3.14	-8.05
PF ₃	-10.33	15.32	-6.87	-1.14	-1.12	-4.14
AsF ₃	-12.66	18.45	-7.65	-2.18	-1.52	-5.56
SbF ₃	-8.03	15.29	-8.85	-3.59	-2.38	-7.56

GeF ₄	-94.10	129.53	-14.88	-61.00	-21.58	-62.03
SnF ₄	-93.81	120.43	-14.16	-44.49	-32.43	-64.46
PbF ₄	-112.57	156.09	-15.71	-45.05	-55.68	-72.92

Table S5. ALMO-EDA decomposition of interaction energies (kcal/mol) for complexes involving pyrimidine. ES= electrostatic term, PAULI = Pauli repulsion, DISP = dispersion, POL = polarization, CT = charge transfer.

	ES	EX	DISP	POL	CT	Total
HF	-31.67	32.85	-3.24	-5.08	-7.50	-14.64
HCl	-29.07	40.10	-3.66	-6.30	-12.88	-11.81
HBr	-	-	-	-	-	-
HI	-	-	-	-	-	-
HCN	-14.72	12.99	-1.78	-1.71	-2.47	-7.70
FCI	-61.07	139.30	-8.12	-31.28	-66.78	-27.95
FBr	-58.79	108.02	-7.17	-23.67	-46.90	-28.51
FI	-75.76	111.36	-11.63	-20.46	-32.45	-28.94
SF ₂	-45.62	73.76	-8.06	-8.84	-25.14	-13.90
SeF ₂	-55.32	86.33	-8.45	-16.00	-28.65	-22.09
TeF ₂	-68.45	95.54	-12.11	-18.20	-24.16	-27.39
PF ₃	-19.67	23.47	-5.71	-2.00	-2.81	-6.72
AsF ₃	-37.81	47.24	-7.73	-6.54	-8.67	-13.50
SbF ₃	-48.17	61.68	-10.73	-11.72	-12.66	-21.61

GeF ₄	-106.74	125.51	-11.19	-41.66	-19.05	-53.13
SnF ₄	-102.48	111.44	-9.52	-33.13	-23.02	-56.71
PbF ₄	-105.65	125.85	-10.26	-30.91	-32.95	-53.93

Table S6. Percentage contributions of ALMO-EDA decomposition terms of interaction energies for selected complexes involving 111P, 211P, 221P and 222P Lewis bases. ES= electrostatic term, PAULI = Pauli repulsion, DISP = dispersion, POL = polarization, CT = charge transfer.

								%ES	%POL	%CT	%DISP
						HF	111P	62	13	16	10
							211P	62	12	15	11
							221P	61	12	15	13
							222P	49	16	13	22
ClF	111P	52	6	28	14						
	211P	39	9	43	9						
	221P	33	13	48	7						
	222P	35	9	48	8						
SF ₂	111P	59	6	13	21						
	211P	52	7	27	15						
	221P	52	6	21	20						
	222P	50	7	11	32						
PF ₃	111P	62	5	6	26						
	211P	61	6	10	23						
	221P	57	6	11	27						
	222P	53	6	6	35						

GeF ₄	-184.25	-156.54	-27.70	-223.64	-170.99	-52.65	-249.83	-203.54	-46.29
SnF ₄	-228.54	-184.99	-43.55	-192.06	-137.60	-54.46	-267.13	-207.39	-59.74
PbF ₄	-157.93	-113.68	-44.25	-146.39	-74.57	-71.82	-185.79	-124.17	-61.62

Table S8. Coordinates of studied systems

monomer				
[1.1.1]propellane	C	-0.40554400	1.22778700	-0.00007000
	C	1.26606100	-0.26266600	-0.00003200
	C	-0.00001000	0.00002300	0.77214100
	H	0.28315400	2.06175200	-0.00010600
	H	-1.45547900	1.48746800	-0.00006700
	H	2.01582200	0.51684400	-0.00006300
	H	1.64401600	-1.27604400	0.00001500
	C	-0.00002500	-0.00004100	-0.77204300
	C	-0.86051800	-0.96511300	0.00001100
	H	-0.56047600	-2.00422200	0.00006200
	H	-1.92707900	-0.78563200	0.00002500
[2.2.2]propellane	C	0.85432500	1.28504300	-0.77409100
	C	-1.54024700	0.09714700	-0.77393500
	C	-0.00009700	-0.00001900	-0.76605100
	H	0.47384800	2.11680100	-1.36735700
	H	1.88844300	1.09857200	-1.06679100
	H	-1.89635300	1.08562600	-1.06707400
	H	-2.07003400	-0.64871600	-1.36686300
	C	-0.00003200	0.00004400	0.76605700
	C	0.68584000	-1.38243100	-0.77390700
	H	0.00771100	-2.18512000	-1.06658700
	H	1.59647700	-1.46856000	-1.36710500
	C	0.66232100	1.39393500	0.77386600
	H	1.57144100	1.49547200	1.36692100
	H	-0.02932600	2.18499300	1.06664200
	C	-1.53832100	-0.12327800	0.77402400
	H	-2.08072700	0.61333000	1.36710800
	H	-1.87751400	-1.11775900	1.06695400
	C	0.87610300	-1.27037400	0.77403700
	H	0.50975300	-2.10846500	1.36728200
	H	1.90693500	-1.06657700	1.06686000
pyramidane	C	-0.02943600	1.01842600	-0.24021100
	C	0.00017100	-0.00001900	1.01815000
	C	-1.01848600	-0.02939400	-0.24050800
	C	1.01842600	0.02938500	-0.24063800
	C	0.02934200	-1.01843800	-0.24021600
	H	-0.06013200	2.08069100	-0.08268100

	H	-2.08057300	-0.06009000	-0.08173300
	H	2.08060300	0.06008200	-0.08250100
	H	0.06004500	-2.08071200	-0.08275100

dimer				
[1.1.1]propellane				
HF	C	-0.40792000	1.24534200	0.09881000
	C	1.26854700	-0.24763000	0.01687300
	C	0.00295100	-0.02088200	0.77747000
	H	0.28321200	2.07609100	0.13077000
	H	-1.45821600	1.50131900	0.11267500
	H	2.01558000	0.53334400	0.04587300
	H	1.64285300	-1.26030300	-0.03985700
	C	-0.00590600	0.05429600	-0.75712600
	C	-0.86457800	-0.95169800	-0.00480900
	H	-0.56147000	-1.98785800	-0.06248600
	H	-1.93010200	-0.76902600	0.00518600
	H	-0.02035500	0.09716800	-2.68812800
	F	-0.02748000	0.10947800	-3.62193500
HCl	C	-0.39335000	1.21556600	-0.00373200
	C	1.28047700	-0.27607800	0.09697900
	C	-0.01220000	0.01094000	0.79884500
	H	0.29716900	2.04763600	-0.01314100
	H	-1.44284900	1.47160700	-0.05143800
	H	2.02811600	0.50506100	0.09261300
	H	1.65565000	-1.28924500	0.14023100
	C	0.03855400	-0.04045600	-0.73861200
	C	-0.84981200	-0.98112600	0.05120400
	H	-0.54809100	-2.01861300	0.09266100
	H	-1.91490200	-0.80002500	0.00678000
	Cl	-0.13497800	0.33865800	-4.08026500
	H	-0.04933900	0.15736900	-2.80130700
HBr	C	-0.38226500	1.22533800	0.00284100
	C	1.28784000	-0.26956900	0.11505900
	C	-0.02232700	0.00413400	0.79055800
	H	0.30867600	2.05670700	0.02815300
	H	-1.43010500	1.48308700	-0.06739700
	H	2.03575100	0.51068700	0.14638000
	H	1.66121000	-1.28383400	0.14708600
	C	0.06798700	-0.01529500	-0.74615300
	C	-0.84098400	-0.97139900	0.00228500
	H	-0.54055100	-2.00974200	0.02929400
	H	-1.90441300	-0.78816100	-0.06688100
	H	-0.06101700	0.12636800	-2.75439300

	Br	-0.23497800	0.29333800	-4.17968000
HI	C	-0.40730900	1.24352200	0.10635400
	C	1.26687400	-0.24746900	0.02447900
	C	0.00310000	-0.02156000	0.79914800
	H	0.28314900	2.07508500	0.13948800
	H	-1.45758000	1.50050800	0.12151100
	H	2.01496900	0.53276300	0.05464100
	H	1.64212900	-1.26014100	-0.03062500
	C	-0.00574500	0.05344500	-0.74011100
	C	-0.86325800	-0.95053300	0.00264800
	H	-0.56101300	-1.98729600	-0.05335700
	H	-1.92921600	-0.76907700	0.01396700
	H	-0.02165500	0.10016300	-2.77245200
	I	-0.03219000	0.11885500	-4.40624800
HCN	C	-0.41028300	1.23925400	0.15405500
	C	1.26454300	-0.25177700	0.06745300
	C	0.00417600	-0.02413400	0.84512500
	H	0.27978400	2.07131400	0.18409000
	H	-1.46041300	1.49630900	0.17646600
	H	2.01274900	0.52852600	0.09450600
	H	1.64057600	-1.26434700	0.01589900
	C	-0.01279400	0.04647700	-0.69278800
	C	-0.86618100	-0.95588400	0.05710900
	H	-0.56435100	-1.99295600	0.00526200
	H	-1.93215500	-0.77527700	0.07625700
	C	0.17601500	0.39401900	-4.06111700
	H	0.10212200	0.27132700	-2.99579300
	N	0.25592600	0.52549200	-5.19366800
FCl	C	-0.40661400	1.23095500	-0.04826700
	C	1.26887800	-0.26223800	-0.04046200
	C	0.00015400	0.00437500	0.74845800
	H	0.28426800	2.06269200	-0.04586500
	H	-1.45709200	1.48703400	-0.04298500
	H	2.01577400	0.51957100	-0.03821200
	H	1.64388500	-1.27630400	-0.02984300
	C	0.00000500	-0.00287200	-0.79071600
	C	-0.86198400	-0.96667800	-0.03692700
	H	-0.55857000	-2.00441200	-0.02617000
	H	-1.92770200	-0.78424100	-0.03167600
	F	-0.02951600	0.12020000	4.95934900
	Cl	-0.01807200	0.07463300	3.31722300
FBr	C	-0.40890000	1.23859900	-0.07976400
	C	1.26843200	-0.25568100	-0.03189000
	C	-0.00667400	0.02840900	0.75865600
	H	0.28321200	2.06910300	-0.08736800

	H	-1.45966700	1.49295800	-0.08278600
	H	2.01388300	0.52730800	-0.03734400
	H	1.64139400	-1.26966600	0.00776900
	C	0.00260000	-0.01186500	-0.77912400
	C	-0.86495900	-0.96089200	-0.02638000
	H	-0.55989500	-1.99731800	0.01356600
	H	-1.93023600	-0.77657800	-0.02698400
	F	-0.01419900	0.06579100	5.03173800
	Br	-0.01157700	0.05254500	3.23381800
FI	C	-0.40620000	1.24125000	-0.00403500
	C	1.27259600	-0.25528800	-0.02018100
	C	-0.00453100	-0.00386700	0.70029200
	H	0.28663400	2.07108400	0.00248800
	H	-1.45690600	1.49509700	-0.02155200
	H	2.01760200	0.52800700	-0.01207200
	H	1.64512400	-1.26978100	-0.04499700
	C	0.00766400	0.02217400	-0.83612400
	C	-0.86279900	-0.96057400	-0.04726600
	H	-0.55722700	-1.99715900	-0.07391700
	H	-1.92766500	-0.77498800	-0.06499100
	F	-0.10135200	0.23724200	-5.36889900
	I	-0.04918200	0.14075800	-3.42373000
SF ₂	C	-0.43786600	1.14214100	0.12785200
	C	1.20701500	-0.38222300	0.06699900
	C	-0.17115700	-0.24366000	0.68303200
	H	0.24679000	1.92397600	0.42721900
	H	-1.47388700	1.43362400	0.02234000
	H	1.94640100	0.34888600	0.36432700
	H	1.57142700	-1.38791600	-0.09168600
	C	0.07902400	0.08655000	-0.80062600
	C	-0.89996100	-0.98567800	-0.41262900
	H	-0.60706200	-2.01122400	-0.59119800
	H	-1.95102900	-0.76596800	-0.54073400
	F	0.55261100	0.49889200	5.02956800
	S	0.23644300	0.17255600	3.49690700
	F	1.26869800	1.22555800	2.88546000
SeF ₂	C	-0.42578300	1.16227800	0.09941700
	C	1.21661900	-0.36971400	0.06836000
	C	-0.15938600	-0.21076900	0.70391200
	H	0.26364000	1.94730900	0.37789400
	H	-1.46266600	1.45089400	-0.00446100
	H	1.95766200	0.36730400	0.34565300
	H	1.57413400	-1.38194600	-0.06126400
	C	0.07895500	0.07451100	-0.78862700
	C	-0.89922200	-0.98255600	-0.36990700

	H	-0.60962800	-2.01347800	-0.52025700
	H	-1.95051600	-0.76271900	-0.49520000
	F	0.56188800	0.43189400	5.08212600
	Se	0.17194400	0.06150400	3.42129000
	F	1.24980400	1.28100300	2.80789500
TeF ₂	C	-0.37543500	1.19008000	-0.13558000
	C	1.28718300	-0.24934400	0.33728500
	C	-0.14393800	-0.01293100	0.70486400
	H	0.27360600	2.04119300	0.01698100
	H	-1.38741400	1.40455900	-0.44976200
	H	1.98509200	0.55747700	0.51351900
	H	1.67441000	-1.25051400	0.46716400
	C	0.26898300	-0.04592700	-0.77409200
	C	-0.75635500	-1.02690600	-0.19051000
	H	-0.42868300	-2.05205800	-0.08708100
	H	-1.77913000	-0.87640200	-0.50690400
	F	-0.55261700	0.12600800	-5.28424600
	F	-1.69655500	0.32635300	-2.86285900
	Te	0.07731000	0.01051500	-3.48031400
PF ₃	C	-0.27245200	1.08604700	0.38160000
	C	1.20859700	-0.30877100	-0.56153600
	C	0.41860300	-0.21752300	0.72135000
	H	0.36252700	1.94372000	0.20595500
	H	-1.20770100	1.28819400	0.88621500
	H	1.89337900	0.50007600	-0.77684700
	H	1.52984900	-1.29330700	-0.87313900
	C	-0.26175300	-0.00618200	-0.64598200
	C	-0.71568200	-1.10830500	0.26751300
	H	-0.46222800	-2.12104600	-0.01511500
	H	-1.66638500	-0.98011100	0.76696300
	F	-1.25193700	0.01460000	3.34209500
	F	0.43556500	1.65930400	3.37115800
	P	0.23581800	0.17110500	3.83299900
	F	-0.11189800	0.49754200	5.33363100
AsF ₃	C	-0.54719200	1.05671700	0.43975200
	C	1.21315700	-0.28794600	0.07995200
	C	-0.15978100	-0.38785200	0.71945600
	H	0.07815400	1.81786100	0.88621100
	H	-1.60574300	1.27454900	0.40628000
	H	1.89523600	0.43146100	0.51205800
	H	1.65424600	-1.20864300	-0.27714500
	C	0.03189500	0.24308200	-0.67160900
	C	-0.84891600	-0.95991000	-0.49986400
	H	-0.47832500	-1.90345000	-0.87659700
	H	-1.91661800	-0.80702800	-0.57735700

	F	0.16978100	0.31686800	5.33892500
	F	-1.28742200	0.95621800	3.39468600
	F	1.23611400	0.87891600	3.13439400
	As	-0.01674400	-0.15698900	3.69504300
SbF ₃	C	-0.59131400	0.97773700	0.73128100
	C	1.22032900	-0.09254700	-0.06117700
	C	0.04571400	-0.41067100	0.85974000
	H	0.00836500	1.80661300	1.08169800
	H	-1.65022400	1.03500000	0.94037200
	H	1.87302100	0.70679900	0.26148200
	H	1.69340700	-0.93227600	-0.55188700
	C	-0.15747200	0.27106000	-0.50247400
	C	-0.80842600	-1.04785800	-0.22152400
	H	-0.40111500	-1.91820700	-0.71753400
	H	-1.87790700	-1.04949800	-0.06234500
	F	1.13160400	0.17065400	5.41900100
	F	-0.90105500	0.63275700	3.67253400
	F	1.74718800	0.96872800	2.90252000
	Sb	0.68235800	-0.40233700	3.66452800
GeF ₄	C	-0.37170000	1.27206900	0.12606800
	C	1.29334400	-0.25316600	0.14686300
	C	0.04506900	0.06735800	0.99933900
	H	0.33673800	2.08755300	0.09104500
	H	-1.41911200	1.53548400	0.16745200
	H	2.04418600	0.52347900	0.11231300
	H	1.64670000	-1.27289100	0.20561300
	C	0.00065300	-0.00186400	-0.52400800
	C	-0.85893700	-0.92983800	0.24002500
	H	-0.56041800	-1.96679900	0.30118000
	H	-1.91872300	-0.72242200	0.28431800
	F	0.62023100	-1.46553600	3.09260600
	F	-1.56197000	0.52730600	3.06512100
	F	0.16087100	0.24852100	4.96963400
	F	1.25385600	1.41785100	2.94244500
	Ge	0.11060300	0.17005700	3.25312200
SnF ₄	C	-0.40908300	1.23971900	-0.06343000
	C	1.27610800	-0.26245000	0.08982400
	C	-0.01852700	0.06989300	0.87297600
	H	0.29079700	2.06280000	-0.09119400
	H	-1.46097100	1.48741600	-0.07943800
	H	2.01627200	0.52470900	0.06581400
	H	1.63732400	-1.27464300	0.20418900
	C	0.01141900	-0.05223800	-0.64326300
	C	-0.87362100	-0.96866600	0.10217000
	H	-0.56297000	-1.99747600	0.21694600

	H	-1.93654400	-0.77335800	0.09137400
	F	0.53856800	-1.58181800	3.08198600
	F	-1.92299800	0.57995800	2.88425600
	F	-0.12064700	0.33852000	5.07832300
	F	1.18638700	1.62453700	2.89727200
	Sn	-0.07360400	0.22219400	3.18705400
PbF ₄	C	-0.73795700	1.10329100	0.06367400
	C	1.30544000	0.13525900	-0.01408300
	C	0.05558600	0.06936400	0.89460400
	H	-0.30167800	2.09093000	0.01446700
	H	-1.81313700	1.04380900	0.15647200
	H	1.79024600	1.09997900	-0.06341100
	H	1.94408700	-0.73626900	0.01436300
	C	-0.03538500	-0.00322200	-0.62331900
	C	-0.54911100	-1.14936500	0.15741700
	H	0.04631400	-2.05076600	0.19136000
	H	-1.61990000	-1.26199800	0.25207200
	F	1.27791600	-1.51554700	2.98378900
	F	-1.79421300	0.02982600	3.12341200
	F	0.32244800	0.21865700	5.22986500
	F	1.07772100	1.91798800	2.88209700
	Pb	0.20215900	0.15409000	3.25398600

dimer				
[2.2.2]propellane				
HF	C	0.39106400	1.37989800	-4.03026900
	C	-1.02253100	-0.88732000	-4.04570100
	C	0.33779400	-0.16144700	-3.99848700
	H	-0.35248000	1.87632700	-4.65213500
	H	1.37636200	1.75977000	-4.29945600
	H	-1.83404600	-0.23654400	-4.37051500
	H	-1.06021700	-1.80496000	-4.63097100
	C	0.29332200	-0.14414300	-2.46575200
	C	1.64666100	-0.97734900	-3.96704200
	H	1.49914200	-2.01840200	-4.25348900
	H	2.47996000	-0.57567300	-4.54177300
	C	0.12483100	1.39657100	-2.49171100
	H	0.82641400	1.96814900	-1.88504600
	H	-0.88675800	1.70726200	-2.23089400
	C	-0.95608800	-1.06117700	-2.49538300
	H	-1.82165700	-0.71468000	-1.93170000
	H	-0.72907700	-2.08053200	-2.18367000
	C	1.71152600	-0.76785800	-2.42098300
	H	1.82369600	-1.66615400	-1.81481300
	H	2.47064300	-0.04901100	-2.11302800
	H	0.22721600	-0.11675500	-0.44227500

	F	0.20260900	-0.10438900	0.48273000
HCl	C	0.38487700	1.38021600	-4.03885000
	C	-1.01972200	-0.89267100	-4.05396200
	C	0.33782900	-0.16139200	-4.01007400
	H	-0.36704900	1.87399900	-4.65286900
	H	1.36547400	1.76586400	-4.31704300
	H	-1.83396400	-0.24886800	-4.38593000
	H	-1.05149200	-1.81503600	-4.63230600
	C	0.29471200	-0.14493000	-2.47644300
	C	1.64988100	-0.97212700	-3.97789400
	H	1.50950500	-2.01192200	-4.27258500
	H	2.48362600	-0.56209000	-4.54622500
	C	0.13165900	1.39400100	-2.49720900
	H	0.84312600	1.96024700	-1.89650900
	H	-0.87544800	1.71049700	-2.22517200
	C	-0.95604400	-1.05610400	-2.50153100
	H	-1.82115700	-0.69940200	-1.94293200
	H	-0.73655800	-2.07455000	-2.18065200
	C	1.70857100	-0.77246600	-2.42944200
	H	1.81286800	-1.67655100	-1.82992800
	H	2.47045000	-0.06037200	-2.11182300
	Cl	0.19384000	-0.09958300	0.93341200
	H	0.22896800	-0.11806500	-0.34994700
HBr	C	0.38078900	1.38068200	-4.04076700
	C	-1.01790700	-0.89566000	-4.05611000
	C	0.33760200	-0.16089500	-4.01110700
	H	-0.37333800	1.87162300	-4.65442800
	H	1.35986600	1.76898300	-4.32064000
	H	-1.83318000	-0.25522800	-4.39206900
	H	-1.04549500	-1.81970800	-4.63204200
	C	0.29222000	-0.14334500	-2.47639700
	C	1.65161600	-0.96813500	-3.97624100
	H	1.51550900	-2.00788000	-4.27316900
	H	2.48555900	-0.55442600	-4.54164400
	C	0.12881400	1.39510500	-2.49886900
	H	0.84136400	1.96136100	-1.89934500
	H	-0.87784700	1.71210300	-2.22562000
	C	-0.95772500	-1.05490600	-2.50314400
	H	-1.82443300	-0.69663200	-1.94790200
	H	-0.73913900	-2.07245800	-2.17863100
	C	1.70578800	-0.77033900	-2.42742500
	H	1.80781800	-1.67557700	-1.82913000
	H	2.46701200	-0.05921000	-2.10592300
	H	0.22515400	-0.11836800	-0.33873700
	Br	0.21963700	-0.11614900	1.08937700
HI	C	0.38154900	1.37990400	-4.04576700

	C	-1.01726600	-0.89629600	-4.06088100
	C	0.33831800	-0.16167800	-4.01651900
	H	-0.37428100	1.87073200	-4.65752600
	H	1.35970800	1.76873300	-4.32827000
	H	-1.83213700	-0.25709600	-4.40033400
	H	-1.04391900	-1.82214000	-4.63407000
	C	0.29215400	-0.14352300	-2.48113800
	C	1.65221100	-0.96893300	-3.97964900
	H	1.51732400	-2.00814700	-4.27911200
	H	2.48732500	-0.55384100	-4.54244200
	C	0.13298900	1.39434000	-2.50309000
	H	0.84922500	1.95796200	-1.90526700
	H	-0.87181500	1.71511200	-2.22695400
	C	-0.95934100	-1.05120600	-2.50708200
	H	-1.82575100	-0.68812100	-1.95430000
	H	-0.74474800	-2.06846700	-2.17868200
	C	1.70301300	-0.77375900	-2.43003800
	H	1.80049000	-1.68061500	-1.83324200
	H	2.46579000	-0.06578000	-2.10491100
	H	0.22111600	-0.11405800	-0.29653700
	I	0.21253000	-0.10944700	1.31576000
HCN	C	0.38374200	1.38022500	-4.07692300
	C	-1.02060300	-0.89329700	-4.08609600
	C	0.33728700	-0.16164400	-4.05033600
	H	-0.37295600	1.87514900	-4.68390200
	H	1.36188700	1.76744700	-4.36109200
	H	-1.83737800	-0.25005700	-4.41256500
	H	-1.05606700	-1.81583900	-4.66371800
	C	0.30328900	-0.14710700	-2.51872700
	C	1.64992600	-0.97201800	-4.02660300
	H	1.50937300	-2.01143100	-4.32212800
	H	2.48098300	-0.56043400	-4.59750100
	C	0.14085600	1.39158000	-2.53293500
	H	0.85794200	1.95880500	-1.93924500
	H	-0.86409800	1.71044500	-2.25541300
	C	-0.94727800	-1.05764100	-2.53346500
	H	-1.81089900	-0.70134200	-1.97192100
	H	-0.72783600	-2.07757500	-2.21687500
	C	1.71713800	-0.77506800	-2.47748900
	H	1.82570400	-1.68253500	-1.88325000
	H	2.48332400	-0.06513900	-2.16470200
	C	0.29955100	-0.10038400	0.79500900
	N	0.28782700	-0.08230700	1.93748600
	H	0.31041500	-0.11727600	-0.27654100
FCI	C	2.10019000	-1.30889400	0.51077400

	C	2.10027900	1.09639600	0.87832800
	C	2.40689600	-0.00025000	0.00039500
	H	2.40016900	-1.47725200	1.54019600
	H	2.39990400	-2.12967900	-0.13308300
	H	2.39967500	0.94930200	1.91119300
	H	2.40097700	2.07181600	0.50929400
	C	-0.06160500	0.00022500	-0.00025300
	C	2.10086600	0.21206100	-1.38834700
	H	2.40100900	1.17993700	-1.77722300
	H	2.40107600	-0.59535300	-2.04866500
	C	0.37801600	-1.30126700	0.50809000
	H	0.08602100	-2.13681200	-0.12217900
	H	0.08611000	-1.48841800	1.53782700
	C	0.37811700	1.09119800	0.87265400
	H	0.08567600	0.96357700	1.91134700
	H	0.08659700	2.07652400	0.51945500
	C	0.37852200	0.21074800	-1.38143200
	H	0.08656100	1.17427900	-1.79015400
	H	0.08685300	-0.58758500	-2.05836100
	F	-3.99969600	-0.00006400	0.00025700
	Cl	-2.21241500	-0.00006200	-0.00018900
FBr	C	2.55734600	0.02633900	1.40367200
	C	2.55654900	1.20303800	-0.72486800
	C	2.86231000	0.00035000	-0.00038400
	H	2.85523200	0.93436100	1.91817600
	H	2.85557100	-0.86185900	1.95152600
	H	2.85432500	2.12168700	-0.22951100
	H	2.85432200	1.19488100	-1.76851900
	C	0.39253000	-0.00026100	0.00020000
	C	2.55732500	-1.22878100	-0.67952300
	H	2.85484200	-1.25921500	-1.72281600
	H	2.85567400	-2.12819100	-0.15037200
	C	0.83031600	0.02600700	1.39700800
	H	0.54199300	-0.85485300	1.96399000
	H	0.54204500	0.92774100	1.93024000
	C	0.82979600	1.19648400	-0.72089800
	H	0.54132400	2.12764700	-0.24107400
	H	0.54116300	1.20774400	-1.76833200
	C	0.83025500	-1.22311800	-0.67554500
	H	0.54172500	-1.27383100	-1.72181100
	H	0.54246500	-2.13582000	-0.16106900
	F	-3.79316400	0.00005600	-0.00055600
	Br	-1.90687900	-0.00003300	0.00018900
FI	C	2.95706300	-0.52981300	-1.29826500
	C	2.95718400	-0.85914300	1.10811100
	C	3.26386100	0.00034000	-0.00001900

	H	3.25036600	-1.56327000	-1.45249500
	H	3.25004200	0.10039400	-2.13182900
	H	3.25043500	-1.89603900	0.97898000
	H	3.25022200	-0.47600200	2.08030200
	C	0.78910300	-0.00021600	0.00001300
	C	2.95676700	1.38960000	0.19011800
	H	3.24963300	1.79639200	1.15269700
	H	3.24963800	2.04002100	-0.62779900
	C	1.21981100	-0.52796100	-1.29267400
	H	0.93754000	0.08909300	-2.14119300
	H	0.93797900	-1.56274200	-1.46645200
	C	1.21990900	-0.85579700	1.10341500
	H	0.93810200	-1.89926700	0.99313500
	H	0.93787200	-0.48909300	2.08645200
	C	1.21937500	1.38325400	0.18926400
	H	0.93727900	1.80944400	1.14800300
	H	0.93727200	2.05106200	-0.61994700
	F	-3.71809700	0.00035900	-0.00004700
	I	-1.72003700	-0.00009000	0.00001500
SF ₂	C	0.08375700	1.54449500	-0.75492200
	C	-1.36929700	-0.69629500	-0.66856200
	C	0.00334600	0.00566400	-0.69759900
	H	-0.67993700	2.04556400	-1.34838600
	H	1.06146800	1.90123700	-1.07877200
	H	-2.18340100	-0.03683800	-0.96892800
	H	-1.44913600	-1.62305800	-1.23543000
	C	0.02917800	0.04761600	0.84040000
	C	1.29688900	-0.83247100	-0.71244500
	H	1.12056600	-1.87443200	-0.97891400
	H	2.11150600	-0.45167600	-1.32708100
	C	-0.10793200	1.58779300	0.79394400
	H	0.63374000	2.15232200	1.35900600
	H	-1.09875300	1.92306100	1.09921400
	C	-1.23491600	-0.84344800	0.88024400
	H	-2.06689800	-0.46879600	1.47544900
	H	-1.01346700	-1.86147700	1.20132200
	C	1.43141700	-0.60415000	0.82659300
	H	1.54777500	-1.50182200	1.43557100
	H	2.21930400	0.10089300	1.09377700
	F	0.41046100	0.00293600	5.31357700
	S	0.27102600	0.01795300	3.72683700
	F	-1.07092600	0.86934200	3.66251300
SeF ₂	C	0.08365800	1.54438200	-0.75614400
	C	-1.37104400	-0.69372300	-0.66692200
	C	0.00176900	0.00624800	-0.70078300

	H	-0.68201600	2.04680700	-1.34563100
	H	1.06054300	1.89991800	-1.08365500
	H	-2.18598200	-0.03094900	-0.95702200
	H	-1.45561600	-1.61649900	-1.23938200
	C	0.03921800	0.04282000	0.84001000
	C	1.29316600	-0.83338800	-0.73210100
	H	1.11233600	-1.87453100	-0.99822800
	H	2.10187800	-0.45220700	-1.35399700
	C	-0.10103000	1.58466400	0.79255700
	H	0.64065000	2.15181900	1.35491000
	H	-1.09117200	1.91448300	1.10432800
	C	-1.22577300	-0.85095900	0.87876800
	H	-2.05284300	-0.48101400	1.48347500
	H	-1.00065800	-1.87110600	1.19049400
	C	1.44436600	-0.60833000	0.80476700
	H	1.57167900	-1.50909400	1.40815400
	H	2.23377200	0.09817300	1.06367400
	F	0.37040400	0.01859100	5.47067100
	Se	0.30141800	-0.01550400	3.73838300
	F	-1.14295500	0.93381300	3.64108300
TeF ₂	C	0.05422700	1.53669100	-0.83395500
	C	-1.35954100	-0.72610400	-0.81823700
	C	-0.00022900	-0.00200800	-0.78298300
	H	-0.69213100	2.02414900	-1.45934900
	H	1.03856900	1.91177600	-1.11373300
	H	-2.17131000	-0.07461400	-1.14052200
	H	-1.40116900	-1.64532200	-1.40079600
	C	-0.03426800	0.02913900	0.76025700
	C	1.30579000	-0.81786600	-0.76133100
	H	1.15472900	-1.86153800	-1.03551200
	H	2.13357200	-0.42112300	-1.34705900
	C	-0.20378600	1.57069000	0.70344200
	H	0.50036600	2.15319400	1.29731600
	H	-1.21306300	1.87815400	0.97344200
	C	-1.28292600	-0.89257700	0.73024300
	H	-2.14385000	-0.54534700	1.29956600
	H	-1.04951300	-1.91049600	1.04327900
	C	1.38711000	-0.59429400	0.78031700
	H	1.50909200	-1.49622200	1.38405300
	H	2.15039800	0.12828400	1.07220400
	F	-0.06875600	0.09486200	5.63077200
	F	-1.55487000	0.86478800	3.46575800
	Te	0.09735400	-0.01722100	3.74405500
PF ₃	C	-0.03315300	1.57224900	-0.74105600
	C	-1.33608100	-0.75734900	-0.85627500

	C	-0.01336500	0.03046300	-0.76860900
	H	-0.79142400	2.05700700	-1.35483300
	H	0.93645200	2.00735400	-0.98326400
	H	-2.17498300	-0.13532200	-1.16817700
	H	-1.32433100	-1.65514100	-1.47312800
	C	-0.07641700	-0.00948100	0.76620000
	C	1.33143500	-0.72382400	-0.74673200
	H	1.23742800	-1.75946900	-1.07348800
	H	2.15287300	-0.26289500	-1.29386100
	C	-0.31821900	1.51752200	0.79368700
	H	0.34645600	2.09893100	1.43174300
	H	-1.34697100	1.76830600	1.05159100
	C	-1.27690300	-0.98069700	0.68897200
	H	-2.16589200	-0.69331600	1.25097000
	H	-1.00551800	-1.99935900	0.96856500
	C	1.36495800	-0.56767500	0.80711800
	H	1.50935100	-1.48467500	1.37981200
	H	2.08704600	0.17155600	1.15376200
	F	-0.25471100	-0.35291400	5.40280700
	F	-1.36607500	0.66688500	3.60216800
	P	-0.19568700	-0.35398000	3.83215800
	F	0.98830500	0.66755000	3.69093000
AsF ₃	C	0.02353300	1.59009400	-0.63742400
	C	-1.37121100	-0.68590700	-0.71841800
	C	-0.01715300	0.05031000	-0.69701600
	H	-0.75343200	2.11518900	-1.19151500
	H	0.99154200	1.99426600	-0.93321700
	H	-2.20382500	-0.02546300	-0.95936100
	H	-1.43299900	-1.56728700	-1.35536900
	C	0.01738700	-0.02456400	0.83928300
	C	1.29613300	-0.75194000	-0.78326500
	H	1.14224500	-1.77515300	-1.12581000
	H	2.09594300	-0.30671100	-1.37336500
	C	-0.16541100	1.51116000	0.91025100
	H	0.55855500	2.05231600	1.51742900
	H	-1.16550800	1.79055200	1.23951300
	C	-1.22307000	-0.95139200	0.81337100
	H	-2.06411000	-0.64610500	1.43671100
	H	-0.97349100	-1.98764100	1.04737000
	C	1.43868200	-0.63564600	0.76699300
	H	1.58980000	-1.57453800	1.30272700
	H	2.20772000	0.06854500	1.08356400
	F	0.12743600	-0.42090900	5.56858300
	F	-1.18804500	0.69851500	3.73216400
	F	1.34622900	0.70826100	3.67296800
	As	0.08695200	-0.44039100	3.85359300

SbF ₃	C	-0.05209400	1.49159200	-0.82369300
	C	-1.19083500	-0.92082500	-0.80913900
	C	0.06881900	-0.03972600	-0.70511800
	H	-1.00790100	1.80818200	-1.24085700
	H	0.74619200	1.99769900	-1.36436600
	H	-1.95846500	-0.58759600	-1.50611300
	H	-0.95739100	-1.96342900	-1.02242800
	C	-0.09147600	0.04366300	0.82517800
	C	1.45496300	-0.69246000	-0.54262600
	H	1.61092800	-1.62897200	-1.07621500
	H	2.26917700	-0.01242000	-0.79210400
	C	0.00473100	1.58962400	0.73240500
	H	0.95314600	1.96524900	1.11519700
	H	-0.80411100	2.15616000	1.19921400
	C	-1.47225100	-0.65368400	0.70259800
	H	-2.30355700	0.03443200	0.86777100
	H	-1.61941900	-1.53768000	1.32465900
	C	1.19409500	-0.80776100	0.99125400
	H	0.97182400	-1.82144500	1.32094600
	H	1.95750500	-0.39447600	1.64809000
	F	-0.11694400	-1.47820100	3.70349200
	F	-0.58272400	0.31917000	5.71641400
	F	1.12119400	0.99720100	3.68402200
	Sb	-0.63920300	0.33124900	3.82739700
GeF ₄	C	2.79372100	1.17674600	0.78390400
	C	2.79358400	0.09000800	-1.41113000
	C	3.05244300	-0.00037700	0.00013400
	H	3.11465300	2.10405400	0.32092500
	H	3.11505300	1.10739900	1.81790000
	H	3.11539100	1.01990800	-1.86825700
	H	3.11380800	-0.77486400	-1.98270800
	C	0.61368800	0.00045200	-0.00010900
	C	2.79298300	-1.26761800	0.62747200
	H	3.11413800	-2.12859300	0.05057700
	H	3.11348400	-1.33042300	1.66214800
	C	1.10509400	1.17156600	0.78089100
	H	0.80992000	1.13375600	1.82622700
	H	0.80957300	2.12200500	0.34432700
	C	1.10482700	0.09115300	-1.40491600
	H	0.81008100	1.01564900	-1.89455300
	H	0.80864500	-0.76183900	-2.00983900
	C	1.10440600	-1.26171600	0.62370000
	H	0.80898600	-2.14786000	0.06804400
	H	0.80840500	-1.35886200	1.66495800
	F	-1.42310400	-1.45559800	-0.97615500

	F	-1.42378200	1.57344900	-0.77199700
	F	-3.23873800	-0.00035300	-0.00032400
	F	-1.42380300	-0.11788000	1.74851100
	Ge	-1.50380600	0.00005700	0.00000800
SnF ₄	C	-0.19052100	1.43158100	-0.94740400
	C	-1.12832700	-0.82873700	-0.93491600
	C	-0.00571000	0.02870900	-1.19988900
	H	-1.14788600	1.82601900	-1.27138900
	H	0.63567900	2.05953700	-1.26386400
	H	-2.08521000	-0.43222700	-1.25781000
	H	-0.99111000	-1.85994800	-1.24290700
	C	-0.01724600	0.04725000	1.23526600
	C	1.29801500	-0.51087700	-0.92478900
	H	1.43275600	-1.54268400	-1.23193000
	H	2.12272800	0.11839000	-1.24258900
	C	-0.19889300	1.44019700	0.74845300
	H	0.61233900	2.10181100	1.04201100
	H	-1.15660900	1.86821800	1.03410200
	C	-1.13235900	-0.81423100	0.76121100
	H	-2.11124700	-0.43819400	1.04814500
	H	-1.02419300	-1.85324900	1.06268500
	C	1.28671300	-0.49536900	0.77092600
	H	1.45019200	-1.52646200	1.07440800
	H	2.13225200	0.12225000	1.06367600
	F	0.23505300	-1.84650800	3.40083000
	F	-1.81990200	0.79742900	3.35610900
	F	-0.05327600	0.08364400	5.40469700
	F	1.49407100	1.24924500	3.38545300
	Sn	-0.03341500	0.06718700	3.50289100
PbF ₄	C	0.06919900	1.40325700	-0.52199900
	C	-1.27659400	-0.65254400	-0.52951100
	C	-0.00436300	-0.01584100	-0.76088100
	H	-0.78987300	1.96192000	-0.87828400
	H	1.00521600	1.85962700	-0.82638400
	H	-2.13087800	-0.08153800	-0.87775700
	H	-1.32277400	-1.68804100	-0.85000800
	C	-0.06050400	0.01051600	1.63794700
	C	1.17618600	-0.78987300	-0.47243600
	H	1.11708600	-1.82751900	-0.78363400
	H	2.10441100	-0.32385300	-0.78589600
	C	0.02037500	1.42138300	1.15596000
	H	0.92901600	1.92051100	1.48341500
	H	-0.85453800	2.00447200	1.43272400
	C	-1.31090000	-0.64213500	1.14752400
	H	-2.20485200	-0.09327200	1.43326500
	H	-1.38648400	-1.68038100	1.46126500

	C	1.14127300	-0.76294400	1.20564600
	H	1.10504700	-1.80043300	1.52847200
	H	2.07032400	-0.29766000	1.52566100
	F	-1.83183800	1.14376000	3.70078900
	F	1.72154700	0.97207500	3.77093400
	F	-0.14606300	0.05393000	5.87355700
	F	-0.20229900	-2.01871900	3.76495700
	Pb	-0.10802000	0.03440600	3.89874600

dimer				
pyramidane				
HF	C	-0.03077900	1.02055700	-0.22182400
	C	-0.00476600	-0.00017400	1.00957100
	C	-1.02171100	-0.02951100	-0.22589300
	C	1.01950500	0.02939200	-0.21776900
	C	0.02812400	-1.02068300	-0.22187200
	H	-0.06215900	2.08221300	-0.05952700
	H	-2.08383700	-0.06020700	-0.06644300
	H	2.08074200	0.06005500	-0.05275500
	H	0.05810200	-2.08238000	-0.05957300
	F	-0.08532300	-0.00395100	3.71792500
	H	-0.05085600	-0.00229100	2.76261200
HCl	C	0.08445600	-1.01356500	0.08404100
	C	-0.02902900	0.04094800	-1.11136900
	C	-1.02781200	-0.09278200	0.12958800
	C	1.00573600	0.09880600	0.10640100
	C	-0.10629600	1.01905600	0.15187100
	H	0.18134100	-2.06561500	-0.11194700
	H	-2.08770600	-0.18698100	-0.02012000
	H	2.06074800	0.20379900	-0.06865300
	H	-0.20776500	2.08109700	0.02322500
	Cl	-0.04587800	0.30066600	-4.19209600
	H	-0.04172800	0.16811700	-2.84351500
HBr	-			
HI	-			
HCN	C	-0.03066200	1.01741000	-0.22679200
	C	0.00189700	-0.03648400	0.98955600
	C	-1.02068300	-0.03132800	-0.25364500
	C	1.01840800	0.02785600	-0.25705200
	C	0.02840600	-1.02088400	-0.28382800
	H	-0.06111300	2.07524300	-0.04115700
	H	-2.08291100	-0.06656100	-0.09603200
	H	2.08138500	0.05438700	-0.10279900
	H	0.05956500	-2.08744700	-0.15774400
	C	0.00886400	-0.12490400	4.25655900

	H	0.00762100	-0.09640500	3.17221200
	N	0.01006100	-0.15437600	5.39998800
FCI	C	-0.03034000	1.02759800	-0.20023800
	C	-0.00515100	0.02168600	1.01442100
	C	-1.02583100	-0.02698900	-0.18722800
	C	1.02429400	0.03226600	-0.18069500
	C	0.02880300	-1.02228200	-0.16769900
	H	-0.06159000	2.09012900	-0.04005000
	H	-2.08632900	-0.05484500	-0.01349100
	H	2.08349600	0.06577700	-0.00018900
	H	0.05879600	-2.07918300	0.02640500
	F	-0.02074800	0.08594000	4.77613300
	Cl	-0.01302800	0.05466600	2.97611400
FBr	C	-0.03088200	1.02541900	-0.23514300
	C	-0.00289600	0.01253900	0.97778800
	C	-1.02427000	-0.02978300	-0.22718300
	C	1.02441000	0.03219000	-0.22278100
	C	0.03104400	-1.02317300	-0.21487300
	H	-0.06339800	2.08713100	-0.07028000
	H	-2.08489400	-0.06017800	-0.05517400
	H	2.08416300	0.06604000	-0.04612800
	H	0.06272800	-2.08173200	-0.03090000
	F	-0.01338300	0.05495700	5.00172800
	Br	-0.00843900	0.03485700	3.11541500
FI	C	0.02326000	-1.03110500	0.13242300
	C	-0.01462900	0.03998100	-1.03261900
	C	-1.02582300	-0.03393800	0.18349500
	C	1.02160500	0.01777800	0.16373800
	C	-0.02761000	1.01481300	0.21485300
	H	0.04786800	-2.08413600	-0.08157200
	H	-2.08819700	-0.05379600	0.02137400
	H	2.08056800	0.05147900	-0.01712400
	H	-0.05580200	2.08146900	0.08529500
	F	-0.06899600	0.23362500	-5.36784800
	I	-0.04281600	0.14175900	-3.36773200
SF ₂	C	0.00390700	1.04752200	0.04851800
	C	-0.07300500	-0.08147800	1.17216400
	C	-0.98721400	0.00832700	-0.12159300
	C	1.05077100	0.05408800	0.04827800
	C	0.06511600	-0.99001000	-0.12186900
	H	-0.03628800	2.08593500	0.32383100
	H	-2.05915900	-0.02774900	-0.05731700
	H	2.08968900	0.06847100	0.32429000
	H	0.08530500	-2.06234600	-0.05704700

	F	0.54216700	0.54288500	5.01378100
	S	0.16842200	0.16069900	3.45170800
	F	1.23221400	1.26473200	2.92149200
SeF ₂	C	0.01627800	1.06614400	0.07917600
	C	-0.07328000	-0.06344400	1.19478700
	C	-0.97732500	0.03049200	-0.09917000
	C	1.06122700	0.06862200	0.09081600
	C	0.07325100	-0.97418700	-0.08647100
	H	-0.02051700	2.10292200	0.36168100
	H	-2.05001600	-0.00137500	-0.04290000
	H	2.09647500	0.08233000	0.38060300
	H	0.08935200	-2.04682100	-0.02391300
	F	0.54572400	0.73594400	5.11564600
	Se	0.09603600	0.17998600	3.46297900
	F	1.19098200	1.42526000	2.85935900
TeF ₂	C	-0.00439400	-1.02475100	0.11203400
	C	0.20652200	-0.18418300	-1.20738300
	C	-1.05434100	-0.09445600	-0.23998700
	C	0.94758500	0.07448100	0.15834800
	C	-0.11148400	0.99722000	-0.19295900
	H	0.08128000	-2.09585100	0.12385900
	H	-2.04563200	-0.19407900	-0.64464100
	H	2.01788500	0.14233800	0.22522300
	H	-0.13966200	2.01361300	-0.54261800
	F	-0.48058000	0.41103400	-5.39780400
	F	-1.33588700	0.98101700	-3.01100600
	Te	0.14564700	-0.08419900	-3.62005200
PF ₃	C	-0.10750800	0.94854400	0.38977300
	C	0.23850900	-0.43282300	1.15147000
	C	-1.03443600	-0.13885200	0.20757300
	C	0.95094700	0.14374500	-0.16818300
	C	0.02260700	-0.94846500	-0.35129400
	H	-0.13788600	1.87278200	0.93807900
	H	-2.02998500	-0.33823600	0.55963700
	H	2.01960900	0.24029600	-0.22131500
	H	0.12362200	-1.98854900	-0.60045600
	F	-1.32159800	0.73535800	3.33013200
	F	0.95988700	1.33253200	3.44393300
	P	0.00916300	0.20178800	3.99391200
	F	-0.24286500	0.89025200	5.39757700
AsF ₃	C	-0.00420300	0.96060500	0.20682900
	C	-0.00586800	-0.43995700	0.99745300
	C	-1.01118300	-0.00229900	-0.16333900
	C	1.03122600	0.01607300	-0.12922100
	C	0.02486700	-0.95616100	-0.50287700

	H	-0.02172600	1.88233100	0.76056100
	H	-2.07510400	-0.06254000	-0.02445500
	H	2.09036100	-0.02531200	0.04813000
	H	0.03835100	-2.00362400	-0.74114600
	F	0.01281400	0.73154600	5.15678700
	F	-1.27036700	0.98846600	3.04356500
	F	1.29393700	0.95295600	3.03899000
	As	-0.00141400	-0.04714000	3.59868300
SbF ₃	C	0.00825400	1.06367300	0.46518300
	C	0.10129500	-0.29968500	1.30403200
	C	-0.97181000	0.04007300	0.18874800
	C	1.06895000	0.15270000	0.11885400
	C	0.09394800	-0.88225000	-0.16206400
	H	-0.02606200	2.00397500	0.98661700
	H	-2.02562000	-0.05889000	0.37405500
	H	2.13400200	0.16855800	0.26370300
	H	0.14605100	-1.93674600	-0.36120700
	F	0.81922400	1.17382100	5.38659800
	F	-0.90425400	1.31455000	3.34997000
	F	1.88796600	1.00295500	2.95425600
	Sb	0.46881200	0.08672800	3.84468200
GeF ₄	C	-0.04405100	1.03360100	-0.21317800
	C	0.03199100	0.04999400	1.00273700
	C	-1.01962700	-0.03954600	-0.15998600
	C	1.02973300	0.05654300	-0.20509200
	C	0.05318400	-1.01527400	-0.15187300
	H	-0.08843300	2.09844100	-0.07144600
	H	-2.07330500	-0.08060500	0.05106500
	H	2.09236900	0.11465700	-0.05188800
	H	0.10940400	-2.06602100	0.07030600
	F	0.53767000	-1.54126500	3.01651300
	F	-1.58781500	0.57850900	2.98531200
	F	0.14408300	0.21601200	4.82110300
	F	1.30809100	1.35611700	2.86025800
	Ge	0.09025600	0.13696800	3.09600900
SnF ₄	C	-0.04422000	1.05490300	0.01726900
	C	-0.02474300	0.11361800	1.26993100
	C	-1.03568500	-0.00326400	0.07108300
	C	1.01506000	0.06522000	0.09869600
	C	0.02221200	-0.99159900	0.15232900
	H	-0.07810100	2.12510400	0.11589800
	H	-2.09709100	-0.02354100	0.24492400
	H	2.07365000	0.11447200	0.28067300
	H	0.05697300	-2.03549300	0.40977600
	F	0.51234900	-1.58704500	3.43734100

	F	-1.94610800	0.60739500	3.25333600
	F	-0.12624500	0.34205500	5.40463700
	F	1.20094200	1.64490000	3.27618400
	Sn	-0.08071200	0.23667100	3.50947300
PbF ₄	C	-0.03657400	1.04851000	0.05199600
	C	0.13509100	0.08237300	1.27111300
	C	-0.99326200	-0.03554900	0.18267500
	C	1.05035500	0.08355100	0.00754000
	C	0.09012200	-0.99996400	0.13829400
	H	-0.08306200	2.11511900	0.18323900
	H	-2.02811100	-0.08657500	0.47400300
	H	2.12105500	0.15356800	0.07710600
	H	0.17517900	-2.04787400	0.36656600
	F	1.18294500	-1.60703900	3.35744400
	F	-1.80005400	0.15325300	3.39071500
	F	0.27614100	0.21228300	5.52603600
	F	1.19832400	1.89600700	3.25637900
	Pb	0.21626300	0.15652100	3.54852500