

Accurate Experimental and Theoretical Enthalpies of Association of TiCl_4 with Typical Lewis Bases Used in Heterogeneous Ziegler-Natta Catalysis

Supplementary Information

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Complete reference 43.

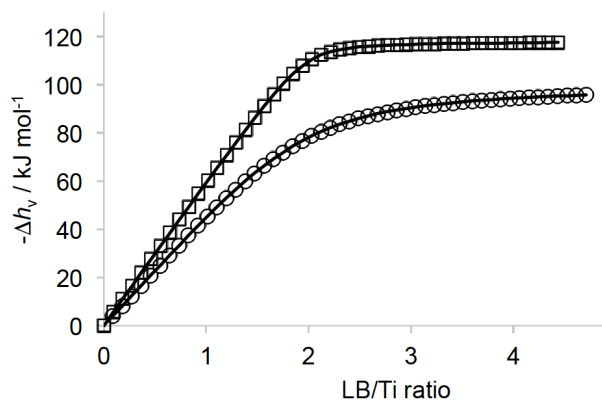
Ponti, G.; Palombi, F.; Abate, D.; Ambrosino, F.; Aprea, G.; Bastianelli, T.; Beone, F.; Bertini, R.; Bracco, G.; Caporicci, M.; Calosso, B.; Chinnici, M.; Colavincenzo, A.; Cucurullo, A.; Dangelo, P.; De Rosa, M.; De Michele, P.; Funel, A.; Furini, G.; Giammattei, D.; Giuseppeoni, S.; Guadagni, R.; Guarnieri, G.; Italiano, A.; Magagnino, S.; Mariano, A.; Mencuccini, G.; Mercuri, C.; Migliori, S.; Ornelli, P.; Pecoraro, S.; Perozziello, A.; Pierattini, S.; Podda, S.; Poggi, F.; Quintiliani, A.; Rocchi, A.; Scio`, C.; Simoni, F.; Vita, A. "The role of medium size facilities in the HPC ecosystem: the case of the new CRESCO4 cluster integrated in the ENEAGRID infrastructure" Proceedings of the 2014 International Conference on High Performance Computing and Simulation, HPCS 2014, art. no. 6903807, 1030-1033.

Table S1. Formation constants and thermodynamic parameters (kJ mol^{-1}) previously reported for the complex formation between TiCl_4 with esters (L01-02), phthalates (L03-06) , succinates (L07-09) and ethers (L10-15) in TCE at 298.15 K.^{27,29}

Ligand		$\log\beta_{j,2007}$	$\Delta G^\circ_{j,2007}$	$\Delta H^\circ_{j,2007}$	$T\Delta S^\circ_{j,2007}$
L01	1:1	3.7	-21	-45	-24
	1:2	6.0	-34	-102	-68
L02	1:1	2.8	-16	-32	-16
	1:2	4.2	-24	-60	-37
L03	1:1	4.5	-26	-87	-61
L04	1:1	4.5	-27	-86	-60
L05	1:1	2.8	-16	-31	-15
	1:2	4.0	-23	-71	-48
L06	1:1	2.7	-15	-29	-13
	1:2	3.9	-22	-70	-48
L07	1:1	4.5	-26	-84	-58
L08	1:1	5.0	-29	-85	-56
L09	1:1	>5.5	-	-90	-
L10	1:1	4.8	-28	-60	-32
	1:2	7.9	-45	-120	-75
L11	1:1	>5.5	-	-103	-
L12	1:1	>5.5	-	-90	-
L13	1:1	4.4	-25	-88	-63
L14	1:1	>5.5	-	-96	-
L15	1:1	>5.5	-	-86	-

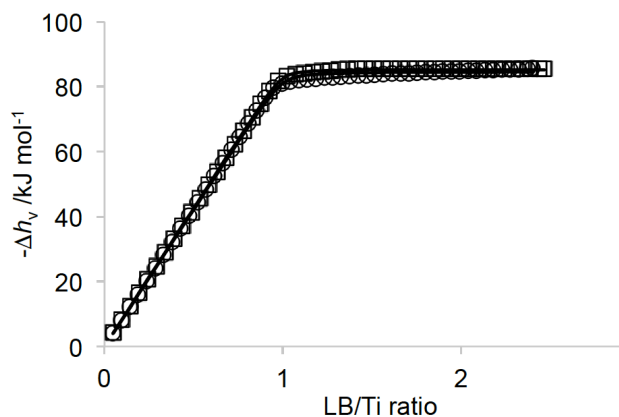
(○) L1 (□) L10.

$C_{\text{Ligand}} = 400\text{mM}$ and $C_{\text{TiCl}_4} = 19\text{mM}$.



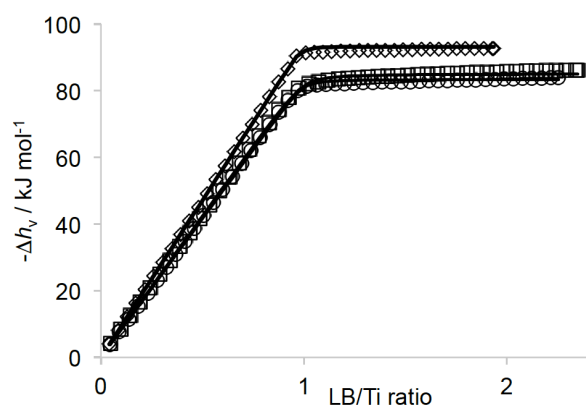
(○) L3 (□) L4.

$C_{\text{Ligand}} = 200\text{mM}$ and $C_{\text{TiCl}_4} = 19\text{mM}$.



(○) L7, (□) L8, (◇) L9.

$C_{\text{Ligand}} = 200\text{ mM}$ and $C_{\text{TiCl}_4} = 20\text{ mM}$.



(○) L11, (□) L12, (◇) L13 (△) L14 (×) L15.

$C_{\text{Ligand}} = 200\text{ mM}$ and $C_{\text{TiCl}_4} = 20\text{ mM}$.

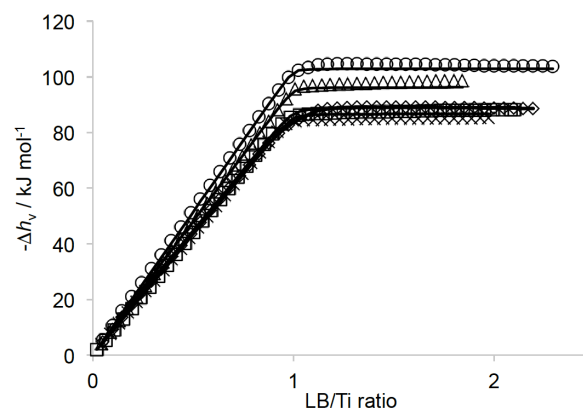


Figure S1. Experimental cumulative molar enthalpy changes per mole of Ti in the cell, Δh_v , as a function of the LB/Ti ratio in TCE at 298.15 K (old data, symbols). Solid lines are calculated with the new $\log\beta_j$ and ΔH_j° values obtained by the re-fit of the old data^{27,29} and reported in Table 2.

Table S2. PBE energy in vacuum (for comparison with the CCSD(T) values) and enthalpy values in TCE using the PCM and SMD solvation models (for comparison with the experimental values). All values in atomic units.

System	E In vacuum	H in TCE (PCM)	H in TCE (SMD)
M	-1898.696745	-1898.676975	-1898.691112
L01	-307.443486	-307.314113	-307.329042
L02	-498.998893	-498.810755	-498.833459
L03	-923.053734	-922.660982	-922.706300
L04	-765.975698	-765.707763	-765.740853
L05	-765.985348	-765.718240	-765.749514
L06	-765.986084	-765.718593	-765.749762
L07	-613.696066	-613.455712	-613.482555
L08	-849.296785	-848.870622	-848.911644
L09	-849.301265	-848.874392	-848.915049
L10	-232.227453	-232.102830	-232.115651
L11	-308.577322	-308.422520	-308.436787
L12	-347.847604	-347.662049	-347.679414
L13	-387.117836	-386.900989	-386.921456
L14	-661.990730	-661.558961	-661.594584
L15	-808.313065	-807.974172	-808.010761
ML01	-2206.152824	-2206.000394	-2206.030050
M(L01) _{2 cis}	-2513.608634	-2513.324391	-2513.367024
ML02	-2397.704988	-2397.494685	-2397.531209
ML03	-2821.761768	-2821.349934	-2821.409747
ML04	-2664.683407	-2664.397135	-2664.444273
ML05	-2664.691780	-2664.401469	-2664.446943
ML06	-2664.690909	-2664.401617	-2664.446108
ML07	-2512.405222	-2512.145636	-2512.188064
ML08	-2748.011175	-2747.565433	-2747.621847
ML09	-2748.016702	-2747.569619	-2747.627439
ML10	-2130.939737	-2130.793043	-2130.819894
M(L10) _{2cis}	-2363.182285	-2362.910072	-2362.947757
ML11	-2207.290647	-2207.119829	-2207.145584
ML12	-2246.557365	-2246.355512	-2246.384148
ML13	-2285.817899	-2285.584758	-2285.614562
ML14	-2560.700070	-2560.252441	-2560.298595
ML15	-2707.022598	-2706.665705	-2706.713759

Table S3. PBE0 energy in vacuum (for comparison with the CCSD(T) values) and enthalpy values in TCE using the PCM and SMD solvation models (for comparison with the experimental values). All values in atomic units.

System	E In vacuum	H in TCE (PCM)	H in TCE (SMD)
M	-1898.792590	-1898.773139	-1898.786732
L01	-307.460411	-307.326783	-307.341385
L02	-499.029441	-498.836263	-498.858639
L03	-923.121303	-922.718558	-922.762877
L04	-766.010793	-765.735665	-765.768154
L05	-766.021193	-765.746848	-765.777557
L06	-766.021748	-765.747056	-765.777612
L07	-613.726953	-613.480248	-613.506566
L08	-849.376160	-848.939397	-848.979172
L09	-849.380328	-848.942804	-848.982130
L10	-232.254333	-232.125303	-232.137845
L11	-308.602994	-308.443891	-308.457678
L12	-347.880908	-347.690419	-347.707176
L13	-387.159230	-386.936742	-386.956515
L14	-662.089080	-661.646185	-661.680975
L15	-808.386875	-808.038678	-808.074635
ML01	-2206.268588	-2206.113241	-2206.142286
M(L01) _{2 cis}	-2513.744887	-2513.454872	-2513.496023
ML02	-2397.834614	-2397.619665	-2397.655423
ML03	-2821.930940	-2821.510209	-2821.568456
ML04	-2664.820011	-2664.527537	-2664.573494
ML05	-2664.826659	-2664.529512	-2664.573952
ML06	-2664.825466	-2664.529337	-2664.572825
ML07	-2512.537704	-2512.272601	-2512.314077
ML08	-2748.192537	-2747.736965	-2747.791712
ML09	-2748.198145	-2747.741091	-2747.797349
ML10	-2131.065410	-2130.915495	-2130.941811
M(L10) _{2cis}	-2363.338623	-2363.060228	-2363.096624
ML11	-2207.417146	-2207.242574	-2207.267802
ML12	-2246.692731	-2246.486310	-2246.514095
ML13	-2285.961289	-2285.723090	-2285.751753
ML14	-2560.900679	-2560.442666	-2560.487271
ML15	-2707.198373	-2706.833105	-2706.879594

Table S4. B3LYP energy in vacuum (for comparison with the CCSD(T) values) and enthalpy values in TCE using the PCM and SMD solvation models (for comparison with the experimental values). All values in atomic units.

System	E In vacuum	H in TCE (PCM)	H in TCE (SMD)
M	-1899.501431	-1899.482380	-1899.495864
L01	-307.821983	-307.689365	-307.704008
L02	-499.619255	-499.427532	-499.449921
L03	-924.206896	-923.806877	-923.851572
L04	-766.898151	-766.625305	-766.657909
L05	-766.908756	-766.636658	-766.667474
L06	-766.909308	-766.636845	-766.667529
L07	-614.435990	-614.191259	-614.217734
L08	-850.379696	-849.945329	-849.986003
L09	-850.383246	-849.948193	-849.988476
L10	-232.532359	-232.404411	-232.416973
L11	-308.971691	-308.813805	-308.827729
L12	-348.299296	-348.110154	-348.127140
L13	-387.627481	-387.406486	-387.426525
L14	-662.900849	-662.460423	-662.495608
L15	-809.345112	-808.999414	-809.035449
ML01	-2207.334011	-2207.179380	-2207.208955
M(L01) _{2 cis}	-2515.165967	-2514.877139	-2514.919425
ML02	-2399.128251	-2398.914545	-2398.950742
ML03	-2823.717537	-2823.298901	-2823.358356
ML04	-2666.408370	-2666.117611	-2666.164419
ML05	-2666.418057	-2666.122963	-2666.167944
ML06	-2666.416932	-2666.122816	-2666.166859
ML07	-2513.947388	-2513.683839	-2513.726116
ML08	-2749.895886	-2749.442272	-2749.498458
ML09	-2749.901612	-2749.446609	-2749.504225
ML10	-2132.047060	-2131.898165	-2131.924783
M(L10) _{2cis}	-2364.592052	-2364.315095	-2364.352406
ML11	-2208.485086	-2208.311180	-2208.337459
ML12	-2247.809915	-2247.604388	-2247.632934
ML13	-2287.133454	-2286.896541	-2286.926151
ML14	-2562.410277	-2561.954300	-2562.000065
ML15	-2708.854252	-2708.490814	-2708.538447

Table S5. TPSS energy in vacuum (for comparison with the CCSD(T) values) and enthalpy values in TCE using the PCM and SMD solvation models (for comparison with the experimental values). All values in atomic units.

System	E In vacuum	H in TCE (PCM)	H in TCE (SMD)
M	-1899.509575	-1899.490152	-1899.503938
L01	-307.861448	-307.730800	-307.745470
L02	-499.694012	-499.504207	-499.526619
L03	-924.340300	-923.944007	-923.988831
L04	-767.010666	-766.740519	-766.773128
L05	-767.020979	-766.751623	-766.782477
L06	-767.021691	-766.751923	-766.782695
L07	-614.517495	-614.274909	-614.301384
L08	-850.495307	-850.065077	-850.105610
L09	-850.499501	-850.068382	-850.108742
L10	-232.565642	-232.439711	-232.452333
L11	-309.009960	-308.853508	-308.867505
L12	-348.343116	-348.155614	-348.172709
L13	-387.676540	-387.457407	-387.477585
L14	-662.989537	-662.553349	-662.588529
L15	-809.474510	-809.132450	-809.168610
ML01	-2207.384885	-2207.231465	-2207.260972
M(L01) _{2 cis}	-2515.259689	-2514.973401	-2515.015541
ML02	-2399.214738	-2399.003215	-2399.039463
ML03	-2823.866435	-2823.451933	-2823.511010
ML04	-2666.536296	-2666.248515	-2666.295041
ML05	-2666.541932	-2666.249823	-2666.294898
ML06	-2666.540981	-2666.249868	-2666.293975
ML07	-2514.043695	-2513.782555	-2513.824485
ML08	-2750.026889	-2749.577641	-2749.633495
ML09	-2750.032145	-2749.581672	-2749.638864
ML10	-2132.092639	-2131.945010	-2131.971644
M(L10) _{2cis}	-2364.675491	-2364.401165	-2364.438435
ML11	-2208.540866	-2208.369180	-2208.394509
ML12	-2247.871323	-2247.668096	-2247.696278
ML13	-2287.201317	-2286.967171	-2286.996171
ML14	-2562.517654	-2562.066371	-2562.111790
ML15	-2709.002321	-2708.642944	-2708.690374

Table S6. PBE-D3 energy in vacuum (for comparison with the CCSD(T) values) and enthalpy values in TCE using the PCM and SMD solvation models (for comparison with the experimental values). All values in atomic units.

System	E In vacuum	H in TCE (PCM)	H in TCE (SMD)
M	-1898.704948	-1898.685178	-1898.699315
L01	-307.452531	-307.323157	-307.338087
L02	-499.019312	-498.831175	-498.853879
L03	-923.098757	-922.706005	-922.751323
L04	-766.007072	-765.739137	-765.772228
L05	-766.015360	-765.748253	-765.779527
L06	-766.016050	-765.748559	-765.779727
L07	-613.716871	-613.476518	-613.503360
L08	-849.345070	-848.918906	-848.959928
L09	-849.351019	-848.924146	-848.964803
L10	-232.236668	-232.112045	-232.124866
L11	-308.587175	-308.432372	-308.446640
L12	-347.860313	-347.674758	-347.692123
L13	-387.133425	-386.916578	-386.937045
L14	-662.035795	-661.604026	-661.639649
L15	-808.360017	-808.021124	-808.057713
ML01	-2206.176609	-2206.024178	-2206.053835
M(L01) _{2 cis}	-2513.649751	-2513.365507	-2513.408141
ML02	-2397.741692	-2397.531389	-2397.567913
ML03	-2821.825980	-2821.414146	-2821.473960
ML04	-2664.733861	-2664.447588	-2664.494726
ML05	-2664.738221	-2664.447910	-2664.493384
ML06	-2664.737167	-2664.447875	-2664.492366
ML07	-2512.445756	-2512.186171	-2512.228599
ML08	-2748.080828	-2747.635085	-2747.691500
ML09	-2748.086760	-2747.639678	-2747.697497
ML10	-2130.965461	-2130.818768	-2130.845619
M(L10) _{2cis}	-2363.227696	-2362.955482	-2362.993168
ML11	-2207.322303	-2207.151485	-2207.177241
ML12	-2246.593521	-2246.391668	-2246.420304
ML13	-2285.859553	-2285.626412	-2285.656216
ML14	-2560.770889	-2560.323260	-2560.369415
ML15	-2707.096054	-2706.739160	-2706.787214

Table S7. PBE0-D3 energy in vacuum (for comparison with the CCSD(T) values) and enthalpy values in TCE using the PCM and SMD solvation models (for comparison with the experimental values). All values in atomic units.

System	E In vacuum	H in TCE (PCM)	H in TCE (SMD)
M	-1899.518162	-1899.499111	-1899.512595
L01	-307.837007	-307.704389	-307.719032
L02	-499.653969	-499.462246	-499.484635
L03	-924.281693	-923.881674	-923.926369
L04	-766.950834	-766.677988	-766.710592
L05	-766.959380	-766.687281	-766.718098
L06	-766.959868	-766.687405	-766.718090
L07	-614.470498	-614.225767	-614.252243
L08	-850.458181	-850.023814	-850.064488
L09	-850.463807	-850.028754	-850.069037
L10	-232.547744	-232.419797	-232.432359
L11	-308.987838	-308.829952	-308.843876
L12	-348.320114	-348.130971	-348.147958
L13	-387.653005	-387.432010	-387.452049
L14	-662.973757	-662.533331	-662.568516
L15	-809.423846	-809.078147	-809.114182
ML01	-2207.376933	-2207.222302	-2207.251876
M(L01) _{2 cis}	-2515.237838	-2514.949010	-2514.991296
ML02	-2399.193430	-2398.979724	-2399.015921
ML03	-2823.827952	-2823.409315	-2823.468771
ML04	-2666.496500	-2666.205741	-2666.252549
ML05	-2666.499318	-2666.204224	-2666.249205
ML06	-2666.497935	-2666.203818	-2666.247862
ML07	-2514.018432	-2513.754882	-2513.797159
ML08	-2750.013194	-2749.559580	-2749.615766
ML09	-2750.019644	-2749.564640	-2749.622256
ML10	-2132.093636	-2131.944741	-2131.971359
M(L10) _{2cis}	-2364.671715	-2364.394758	-2364.432070
ML11	-2208.541857	-2208.367950	-2208.394230
ML12	-2247.874429	-2247.668901	-2247.697448
ML13	-2287.206827	-2286.969914	-2286.999525
ML14	-2562.530445	-2562.074468	-2562.120234
ML15	-2708.981344	-2708.617906	-2708.665539

Table S8. TPSS-D3 energy in vacuum (for comparison with the CCSD(T) values) and enthalpy values in TCE using the PCM and SMD solvation models (for comparison with the experimental values). All values in atomic units.

System	E In vacuum	H in TCE (PCM)	H in TCE (SMD)
M	-1899.520887	-1899.501464	-1899.515251
L01	-307.872568	-307.741920	-307.756590
L02	-499.719586	-499.529781	-499.552193
L03	-924.396500	-924.000207	-924.045031
L04	-767.050005	-766.779858	-766.812467
L05	-767.058563	-766.789207	-766.820061
L06	-767.059216	-766.789447	-766.820220
L07	-614.543220	-614.300634	-614.327110
L08	-850.555459	-850.125229	-850.165761
L09	-850.561366	-850.130247	-850.170608
L10	-232.576972	-232.451040	-232.463662
L11	-309.022004	-308.865552	-308.879549
L12	-348.358672	-348.171169	-348.188264
L13	-387.695643	-387.476510	-387.496689
L14	-663.045457	-662.609269	-662.644449
L15	-809.533800	-809.191740	-809.227901
ML01	-2207.416228	-2207.262808	-2207.292314
M(L01) _{2 cis}	-2515.313351	-2515.027063	-2515.069203
ML02	-2399.262707	-2399.051184	-2399.087432
ML03	-2823.949272	-2823.534771	-2823.593848
ML04	-2666.602094	-2666.314312	-2666.360838
ML05	-2666.602077	-2666.309968	-2666.355043
ML06	-2666.600910	-2666.309797	-2666.353904
ML07	-2514.096581	-2513.835440	-2513.877370
ML08	-2750.116428	-2749.667180	-2749.723034
ML09	-2750.122367	-2749.671894	-2749.729086
ML10	-2132.126576	-2131.978947	-2132.005581
M(L10) _{2cis}	-2364.734673	-2364.460347	-2364.497617
ML11	-2208.582752	-2208.411066	-2208.436395
ML12	-2247.918924	-2247.715698	-2247.743880
ML13	-2287.256057	-2287.021910	-2287.050911
ML14	-2562.608757	-2562.157475	-2562.202894
ML15	-2709.097824	-2708.738447	-2708.785877

Table S9. M06L energy in vacuum (for comparison with the CCSD(T) values) and enthalpy values in TCE using the PCM and SMD solvation models (for comparison with the experimental values). All values in atomic units.

System	E In vacuum	H in TCE (PCM)	H in TCE (SMD)
M	-1899.462411	-1899.442339	-1899.456242
L01	-307.769452	-307.635351	-307.649652
L02	-499.539502	-499.345987	-499.367857
L03	-924.067354	-923.665116	-923.706359
L04	-766.784282	-766.508652	-766.540292
L05	-766.792533	-766.517926	-766.548022
L06	-766.793244	-766.518453	-766.548415
L07	-614.337921	-614.090530	-614.116334
L08	-850.254970	-849.816881	-849.855368
L09	-850.260767	-849.822920	-849.860046
L10	-232.488237	-232.358788	-232.371148
L11	-308.909685	-308.750240	-308.763763
L12	-348.230276	-348.039214	-348.055688
L13	-387.550907	-387.327722	-387.347170
L14	-662.790817	-662.346196	-662.380301
L15	-809.218086	-808.869071	-808.904306
ML01	-2207.254291	-2207.098082	-2207.126512
M(L01) _{2 cis}	-2515.048797	-2514.757301	-2514.797994
ML02	-2399.022607	-2398.807017	-2398.842066
ML03	-2823.557520	-2823.136081	-2823.193407
ML04	-2666.275902	-2665.982644	-2666.027722
ML05	-2666.275792	-2665.978497	-2666.022052
ML06	-2666.274923	-2665.978113	-2666.020670
ML07	-2513.835261	-2513.569387	-2513.608340
ML08	-2749.755958	-2749.298889	-2749.351872
ML09	-2749.760198	-2749.301493	-2749.355861
ML10	-2131.977863	-2131.826899	-2131.853007
M(L10) _{2cis}	-2364.496454	-2364.217527	-2364.253284
ML11	-2208.408984	-2208.234111	-2208.258187
ML12	-2247.728947	-2247.521573	-2247.548472
ML13	-2287.043559	-2286.804443	-2286.832683
ML14	-2562.289844	-2561.829950	-2561.872967
ML15	-2708.717397	-2708.351351	-2708.396894

Table S10. M06 energy in vacuum (for comparison with the CCSD(T) values) and enthalpy values in TCE using the PCM and SMD solvation models (for comparison with the experimental values). All values in atomic units.

System	E In vacuum	H in TCE (PCM)	H in TCE (SMD)
M	-1899.338297	-1899.318199	-1899.331839
L01	-307.619327	-307.486061	-307.500484
L02	-499.265448	-499.072940	-499.095028
L03	-923.569915	-923.168707	-923.212021
L04	-766.390825	-766.116699	-766.148460
L05	-766.399390	-766.126156	-766.156515
L06	-766.399825	-766.126162	-766.156351
L07	-614.043871	-613.798890	-613.825304
L08	-849.803856	-849.368945	-849.407504
L09	-849.810791	-849.375722	-849.413198
L10	-232.362637	-232.234147	-232.246556
L11	-308.761568	-308.602898	-308.616469
L12	-348.055707	-347.865834	-347.882297
L13	-387.350259	-387.128615	-387.148047
L14	-662.408718	-661.967352	-662.001666
L15	-808.749619	-808.402603	-808.437979
ML01	-2206.976520	-2206.821230	-2206.850017
M(L01) _{2 cis}	-2514.616710	-2514.326705	-2514.367674
ML02	-2398.620427	-2398.405775	-2398.441001
ML03	-2822.928112	-2822.508692	-2822.566998
ML04	-2665.749353	-2665.458073	-2665.503729
ML05	-2665.754594	-2665.458435	-2665.502427
ML06	-2665.753443	-2665.457798	-2665.500865
ML07	-2513.409154	-2513.143704	-2513.184153
ML08	-2749.172960	-2748.718731	-2748.772102
ML09	-2749.179334	-2748.723091	-2748.778282
ML10	-2131.725215	-2131.575121	-2131.601542
M(L10) _{2cis}	-2364.114013	-2363.836553	-2363.872458
ML11	-2208.129884	-2207.955463	-2207.980324
ML12	-2247.423071	-2247.216987	-2247.244146
ML13	-2286.710633	-2286.472933	-2286.501195
ML14	-2561.775556	-2561.318500	-2561.362650
ML15	-2708.117366	-2707.752877	-2707.798690

Table S11. DLPNO-CCSD(T) energy in calculated with the TZ and QZ basis sets, and extrapolated to CBS limit. All values in atomic units.

System	TZ	QZ	CBS
M	-2698.119284	-2698.237087	-2698.314769
L01	-307.375482	-307.470062	-307.528492
L02	-498.821972	-498.969141	-499.060726
L03	-922.765605	-923.039931	-923.210818
L04	-765.744563	-765.972395	-766.113917
L05	-765.752566	-765.981431	-766.123799
L06	-765.752896	-765.980758	-766.122403
L07	-613.556857	-613.744095	-613.860069
L08	-849.081279	-849.336774	-849.496107
L09	-849.087303	-849.342538	-849.501764
L10	-232.163484	-232.234533	-232.278669
L11	-308.520611	-308.617338	-308.677093
L12	-347.775091	-347.883481	-347.950552
L13	-387.030104	-387.150269	-387.224744
L14	-661.811769	-662.011840	-662.137026
L15	-807.993769	-808.229161	-808.376250
ML01	-3005.512405	-3005.725244	-3005.862156
M(L01) _{2 cis}	-3312.908053	-3313.215458	-3313.411242
ML02	-3196.955806	-3197.221519	-3197.391708
ML03	-3620.906657	-3621.299177	-3621.548616
ML04	-3463.885042	-3464.231151	-3464.451292
ML05	-3463.887885	-3464.234232	-3464.454407
ML06	-3463.885685	-3464.231982	-3464.452129
ML07	-3311.699268	-3312.004551	-3312.198966
ML08	-3547.229747	-3547.603882	-3547.841876
ML09	-3547.235527	-3547.609621	-3547.847551
ML10	-2930.305420	-2930.494780	-2930.617378
M(L10) _{2cis}	-3162.494370	-3162.754421	-3162.921364
ML11	-3006.669040	-3006.883574	-3007.021661
ML12	-3045.921651	-3046.148030	-3046.293588
ML13	-3085.169715	-3085.407556	-3085.560486
ML14	-3359.958366	-3360.277415	-3360.481380
ML15	-3506.141779	-3506.495584	-3506.721258

Cartesian coordinates of all systems

PBE.M

Ti	0.000008	0.000049	-0.000097
Cl	1.732219	-1.129798	0.778749
Cl	-1.303273	-1.356648	-1.159606
Cl	0.713031	1.632883	-1.307445
Cl	-1.141995	0.853521	1.688420

PBE.L01

O	1.238388	1.368738	0.000001
C	1.075401	0.136076	-0.000001
O	-0.178091	-0.461177	-0.000002
C	2.166901	-0.898802	0.000000
C	-1.345831	0.467606	0.000001
C	-2.596372	-0.394352	-0.000001
H	-1.274061	1.109295	0.890739
H	-1.274062	1.109300	-0.890733
H	-3.489917	0.249745	0.000001
H	-2.633980	-1.036478	-0.892058
H	-2.633980	-1.036482	0.892053
H	3.139986	-0.395668	-0.000018
H	2.083153	-1.545002	0.886440
H	2.083131	-1.545029	-0.886417

PBE.L02

O	-1.465477	0.160122	1.077681
C	-0.323123	0.127704	1.580629
O	-0.113247	0.161935	2.951884
C	0.942986	0.049984	0.808833
C	-1.339078	0.240126	3.793522
C	0.858551	0.009335	-0.598279
H	-0.127869	0.036468	-1.062871
C	2.207094	0.016145	1.433519
C	3.370367	-0.057496	0.656403
C	3.280549	-0.097756	-0.744958
C	2.023021	-0.064235	-1.371125
H	1.952145	-0.095486	-2.460354
H	4.189232	-0.155177	-1.348289
H	4.347780	-0.083547	1.142980
H	2.266665	0.047770	2.520734
C	-0.880721	0.267458	5.241563
H	-1.894860	1.145882	3.509093
H	-1.969075	-0.632582	3.566173
H	-1.758176	0.325395	5.904966
H	-0.316549	-0.641744	5.495840
H	-0.242121	1.140935	5.438599

PBE.L03

O	-0.904070	1.104818	0.389984
C	-0.036184	0.320559	0.818086
O	-0.283475	-0.590123	1.833650
C	1.383007	0.284260	0.368997
C	-1.660238	-0.569310	2.398900
C	1.735578	0.671416	-0.947350
C	0.735510	0.945185	-2.022419
O	0.773832	1.933046	-2.778598
O	-0.185608	-0.074590	-2.138830
C	-1.293525	0.157785	-3.105015
C	2.402154	-0.014596	1.295108

C	3.750911	0.092496	0.933690
C	4.097672	0.508899	-0.360526
C	3.092550	0.798914	-1.292093
H	3.345410	1.119474	-2.303755
H	5.147112	0.605680	-0.645355
H	4.528794	-0.137121	1.664503
H	2.122670	-0.311166	2.305639
C	-2.188459	-1.081415	-3.101276
H	-1.835568	1.057726	-2.777856
H	-0.857952	0.347045	-4.099197
C	-3.433348	-0.803853	-3.971227
C	-1.434487	-2.334751	-3.585307
H	-2.519779	-1.245824	-2.059912
C	-1.734088	-1.619670	3.507623
H	-1.865473	0.444502	2.779296
H	-2.367231	-0.784413	1.583538
C	-3.193948	-1.726870	3.998881
H	-1.441563	-2.589583	3.066076
C	-0.776577	-1.297312	4.670744
H	-2.084762	-3.222873	-3.541559
H	-1.103654	-2.209276	-4.631029
H	-0.545999	-2.526089	-2.966103
H	-4.111515	-1.671291	-3.959239
H	-3.995802	0.071432	-3.608431
H	-3.149059	-0.616626	-5.020797
H	-0.828688	-2.077734	5.446175
H	0.264178	-1.229438	4.321880
H	-1.044734	-0.335234	5.140711
H	-3.281119	-2.500990	4.776827
H	-3.535720	-0.773469	4.436450
H	-3.880931	-1.992052	3.179154

PBE.L04

O	-1.158944	1.007004	0.474503
C	-0.288789	0.235451	0.921383
O	-0.512792	-0.597369	2.007255
C	1.109739	0.136508	0.421409
C	-1.865272	-0.500974	2.626572
C	1.420521	0.455080	-0.923491
C	0.386946	0.716644	-1.969758
O	0.415137	1.681566	-2.755569
O	-0.554667	-0.289690	-2.025396
C	-1.687217	-0.063444	-2.968405
C	2.155635	-0.156537	1.319412
C	3.491180	-0.109410	0.901064
C	3.798056	0.240223	-0.422661
C	2.765688	0.523196	-1.326176
H	2.987996	0.792067	-2.359852
H	4.837622	0.290464	-0.752250
H	4.290467	-0.333555	1.610134
H	1.907095	-0.401700	2.351517
C	-2.603587	-1.269065	-2.854945
H	-2.181813	0.873733	-2.673579
H	-1.273874	0.062613	-3.979859
H	-3.457677	-1.149646	-3.540275
H	-2.074176	-2.195737	-3.121115
H	-2.993385	-1.371033	-1.831820
C	-1.887387	-1.471226	3.794844
H	-2.027154	0.541938	2.937156
H	-2.611224	-0.749140	1.857217

H	-2.875374	-1.440940	4.280821
H	-1.700317	-2.500868	3.457093
H	-1.127379	-1.207262	4.544769

PBE.L05

O	1.202340	0.158586	1.001648
C	0.764825	1.217260	1.494017
O	0.808133	1.483477	2.854538
C	0.147166	2.324575	0.717241
C	1.414501	0.419802	3.703796
C	0.044071	2.176494	-0.676612
H	0.411955	1.268766	-1.155018
C	-0.330079	3.500834	1.333138
C	-0.904086	4.515822	0.556280
C	-1.006848	4.368302	-0.833280
C	-0.531663	3.194703	-1.455815
C	-0.615960	2.986915	-2.925767
H	-1.451821	5.153062	-1.443577
H	-1.272617	5.425085	1.035487
H	-0.246742	3.608558	2.413766
C	1.359455	0.913661	5.139087
H	0.842124	-0.507370	3.553018
H	2.443287	0.247183	3.354793
H	1.799318	0.155571	5.806211
H	1.927008	1.848046	5.259033
H	0.321970	1.091614	5.457731
O	-1.201661	4.060234	-3.580502
O	-0.212833	1.971401	-3.526484
C	-1.322968	3.928806	-5.059807
C	-1.983847	5.199701	-5.564838
H	-0.314892	3.782277	-5.474911
H	-1.916327	3.028305	-5.276645
H	-2.094573	5.146925	-6.659456
H	-2.983105	5.329167	-5.124049
H	-1.377788	6.084981	-5.322871

PBE.L06

O	1.103004	0.207757	0.879696
C	0.699082	1.241438	1.450872
O	0.828053	1.440445	2.815411
C	0.036351	2.382886	0.766535
C	1.484133	0.338448	3.574445
C	-0.153313	2.297624	-0.628154
H	0.191113	1.403162	-1.148511
C	-0.400233	3.529395	1.462996
C	-1.017372	4.573734	0.770725
C	-1.207036	4.488472	-0.623964
C	-0.770452	3.341963	-1.320426
H	-0.919054	3.280398	-2.397554
C	-1.869767	5.629919	-1.308301
H	-1.361798	5.468195	1.291081
H	-0.251631	3.590960	2.540125
C	1.514548	0.762242	5.032552
H	0.903658	-0.581882	3.412960
H	2.490294	0.186388	3.156597
H	1.993719	-0.025837	5.634675
H	2.087750	1.691582	5.163663
H	0.497907	0.921211	5.420623
O	-1.998737	5.430913	-2.672841
O	-2.273689	6.663601	-0.737125

C	-2.654817	6.532910	-3.431875
C	-2.685232	6.109116	-4.889982
H	-3.660979	6.684970	-3.014027
H	-2.074342	7.453239	-3.270390
H	-3.164403	6.897195	-5.492105
H	-1.668592	5.950147	-5.278053
H	-3.258435	5.179775	-5.021092

PBE.L07

C	-5.383793	0.612699	0.430519
C	-4.319893	-0.319605	-0.121995
O	-3.000782	0.337126	0.117253
C	-1.885628	-0.356275	-0.319212
O	-1.949716	-1.479462	-0.852779
O	1.949558	1.477719	-0.856152
C	1.885570	0.355618	-0.320293
C	0.625936	-0.442535	-0.087464
C	-0.625950	0.442345	-0.088233
H	-0.541829	1.193291	-0.893502
O	3.000805	-0.336894	0.117375
C	4.319871	0.319351	-0.123448
C	5.383870	-0.611806	0.430806
H	0.541657	-1.195098	-0.891207
H	0.724585	-1.012696	0.847967
H	-0.724419	1.014385	0.846070
H	-4.426289	-0.489507	-1.203600
H	-4.311024	-1.298152	0.380200
H	4.426082	0.487025	-1.205418
H	4.311081	1.298930	0.376732
H	-6.380041	0.168926	0.276031
H	-5.243337	0.778470	1.508559
H	-5.357783	1.587663	-0.077468
H	6.380090	-0.168347	0.275233
H	5.243599	-0.775354	1.509209
H	5.357780	-1.587816	-0.075165

PBE.L08

C	0.735861	0.844572	-2.746338
C	-0.540602	1.633202	-2.510156
O	-0.135459	2.966211	-1.971848
C	-1.171446	3.837416	-1.678721
O	-2.365012	3.536003	-1.871127
C	-0.723109	5.176970	-1.106000
C	-1.093411	5.293592	0.426631
C	-2.591511	5.079450	0.620881
O	-3.145172	4.186310	1.284035
C	0.739102	5.583772	-1.449108
C	0.910946	5.711030	-2.980918
C	1.135990	6.923530	-0.790462
C	-0.200225	4.508494	1.432562
C	-0.300732	2.968119	1.379818
C	-0.454370	5.017002	2.871116
O	-3.304590	6.071893	-0.036885
C	-4.786160	5.915003	-0.037840
C	-5.353620	7.061090	-0.857628
H	1.294374	0.704316	-1.809341
H	1.390384	1.354853	-3.468099
H	0.485982	-0.149243	-3.150211
H	-1.205615	1.157265	-1.774376
H	-1.115645	1.798490	-3.433115

H	-1.389769	5.906753	-1.599036
H	-0.940348	6.364159	0.649522
H	1.421624	4.794840	-1.091075
H	1.950420	5.980070	-3.227392
H	0.675170	4.771491	-3.499391
H	0.254900	6.504236	-3.379314
H	2.135150	7.229784	-1.138300
H	0.427520	7.723750	-1.066536
H	1.174740	6.865557	0.307690
H	0.839896	4.779158	1.171894
H	0.361820	2.534416	2.146775
H	-1.327171	2.634091	1.582747
H	0.018961	2.570979	0.407015
H	0.271581	4.568322	3.567642
H	-0.350906	6.113315	2.936216
H	-1.464267	4.742629	3.211848
H	-5.016028	4.930695	-0.471086
H	-5.135563	5.927171	1.005195
H	-5.085551	8.034022	-0.419698
H	-4.979875	7.028021	-1.891343
H	-6.452343	6.986453	-0.886078

PBE.L09

C	-1.448824	0.651088	0.789379
H	-1.746735	1.322337	1.606555
H	-0.407301	0.343718	0.957412
H	-2.093909	-0.242019	0.822976
C	-1.603656	1.335443	-0.562987
H	-1.345568	0.670693	-1.397038
H	-2.615595	1.741698	-0.702583
O	-0.630506	2.460119	-0.716913
C	-0.995036	3.679713	-0.178248
C	0.095191	4.728823	-0.339857
O	-2.094301	3.880206	0.373659
C	0.688972	4.765675	-1.782113
H	-0.416300	5.691579	-0.182101
C	1.154473	4.622884	0.823725
H	1.884407	5.427015	0.636819
C	0.561681	4.844952	2.250025
C	1.912919	3.304746	0.776666
C	1.736811	5.887062	-1.941573
H	1.173853	3.797087	-1.984334
C	-0.447755	4.965799	-2.809582
H	-0.040036	4.978558	-3.832724
H	-1.196686	4.161076	-2.757784
H	-0.964953	5.926066	-2.640997
H	2.039757	5.969614	-2.997677
H	1.320308	6.864019	-1.638967
H	2.643963	5.693036	-1.352597
O	3.036291	3.396102	-0.036749
O	1.606447	2.267470	1.390532
C	3.847143	2.152040	-0.198378
C	3.319024	1.304401	-1.349392
H	4.858113	2.532000	-0.391106
H	3.824270	1.603974	0.753801
H	3.958768	0.416566	-1.479287
H	2.293504	0.964456	-1.146690
H	3.322884	1.872257	-2.291600
C	1.705689	4.923106	3.286054
C	-0.309123	6.115497	2.336538

H	-0.064467	3.970160	2.495813
H	1.293446	5.043704	4.300117
H	2.324762	4.013708	3.285071
H	2.358489	5.790118	3.083412
H	-0.583696	6.305222	3.386277
H	0.240473	7.001789	1.972547
H	-1.243046	6.017716	1.765563

PBE.L10

O	0.000000	-1.293105	-0.000099
C	1.198395	-0.426132	0.135105
C	0.737769	0.993127	-0.231906
C	-0.737768	0.993094	0.232049
C	-1.198396	-0.426112	-0.135165
H	1.554690	-0.477903	1.178941
H	1.976373	-0.825611	-0.530399
H	0.794704	1.148922	-1.321449
H	1.337045	1.771650	0.262025
H	-1.337043	1.771688	-0.261771
H	-0.794702	1.148733	1.321614
H	-1.976369	-0.825688	0.530287
H	-1.554700	-0.477732	-1.179006

PBE.L11

C	0.053234	-0.092188	0.091372
H	0.003718	-0.006566	1.183180
H	1.111194	-0.123241	-0.228170
H	-0.448891	-1.023871	-0.228296
O	-0.625629	1.083820	-0.439043
C	-0.636077	1.101762	-1.900610
C	-1.367392	2.368348	-2.316056
H	0.396388	1.110532	-2.296491
H	-1.159915	0.211961	-2.296370
O	-1.377840	2.386290	-3.777623
H	-2.399857	2.359578	-1.920175
H	-0.843554	3.258149	-1.920296
C	-2.056703	3.562298	-4.308039
H	-2.007187	3.476676	-5.399846
H	-3.114663	3.593351	-3.988496
H	-1.554578	4.493982	-3.988370

PBE.L12

C	0.025024	-0.043577	0.222803
H	-0.062001	0.106955	1.305228
H	1.093974	-0.093501	-0.056713
H	-0.466145	-0.994266	-0.056881
O	-0.633919	1.097848	-0.400175
C	-0.593139	1.027450	-1.860910
C	-1.306091	2.262596	-2.402679
H	0.462004	0.995198	-2.201536
H	-1.092865	0.097645	-2.201701
C	-1.323848	2.293219	-3.927849
H	-2.340787	2.278327	-2.027272
H	-0.802210	3.166453	-2.027298
O	-2.026174	3.509300	-4.338045
H	-0.293286	2.303639	-4.338025
H	-1.847976	1.405778	-4.337902
C	-2.100242	3.637454	-5.788304
H	-2.639581	4.571385	-5.985187
H	-1.092101	3.692844	-6.239813

H	-2.652144	2.791943	-6.239738

PBE.L13			
C	0.079513	-0.137807	0.187336
H	0.020778	-0.036237	1.277447
H	1.140777	-0.174972	-0.121810
H	-0.419179	-1.075290	-0.121974
O	-0.594199	1.029602	-0.367586
C	-0.591688	1.025159	-1.831537
C	-1.316420	2.280213	-2.306360
H	0.453206	1.010815	-2.202305
H	-1.101632	0.112999	-2.202207
C	-1.370586	2.373817	-3.843640
H	-2.337017	2.273184	-1.887172
H	-0.800082	3.160645	-1.887292
C	-2.095318	3.628871	-4.318463
H	-0.349988	2.380847	-4.262827
H	-1.886923	1.493385	-4.262707
O	-2.092807	3.624428	-5.782414
H	-3.140212	3.643216	-3.947695
H	-1.585374	4.541031	-3.947793
C	-2.766518	4.791837	-6.337336
H	-2.707783	4.690267	-7.427447
H	-3.827782	4.829002	-6.028190
H	-2.267827	5.729320	-6.028026

PBE.L14			
C	0.505571	-0.012591	0.004824
H	0.853319	0.235906	1.014592
H	1.373455	-0.261059	-0.634623
H	-0.168807	-0.888072	0.051285
O	-0.191697	1.167658	-0.488986
C	-0.693163	0.966534	-1.848647
C	-1.422920	2.231231	-2.362085
H	0.166880	0.726176	-2.507283
H	-1.374655	0.093626	-1.860442
C	-1.405882	2.101803	-3.902584
C	-2.914755	2.314548	-1.851565
C	-0.668426	3.529415	-1.938915
O	-2.157750	3.206720	-4.493778
H	-0.363529	2.129914	-4.272746
H	-1.851033	1.139521	-4.223758
C	-2.153095	3.150866	-5.950232
H	-2.735869	4.014022	-6.293441
H	-1.124293	3.217005	-6.350241
H	-2.622788	2.218934	-6.316753
H	-3.281147	3.289862	-2.217674
C	-3.844610	1.236723	-2.453593
C	-3.051840	2.302765	-0.312185
H	-4.104278	2.482065	-0.036110
H	-2.747482	1.334131	0.113547
H	-2.441135	3.078664	0.170133
H	-4.858208	1.351333	-2.036503
H	-3.928678	1.327969	-3.546347
H	-3.509932	0.213127	-2.211285
H	-1.269300	4.378487	-2.302761
H	-0.656813	3.574378	-0.839548
C	0.784083	3.672282	-2.434590
C	1.560658	4.834489	-1.764724
H	1.337955	2.738300	-2.232536

H	0.807299	3.832818	-3.529073
C	3.041923	4.810241	-2.195681
C	0.933508	6.210815	-2.070575
H	1.519484	4.671763	-0.669970
H	3.616539	5.605090	-1.692334
H	3.513093	3.843670	-1.952429
H	3.134791	4.968009	-3.284554
H	1.514657	7.020661	-1.599939
H	0.917459	6.395081	-3.159217
H	-0.101144	6.282044	-1.702036

PBE.L15

C	-0.538774	-0.000121	0.000017
C	-1.416554	0.175535	1.257452
C	0.429956	-1.172073	0.206402
C	0.429352	1.172325	-0.206388
O	-2.308717	1.318099	1.056174
H	-2.018664	-0.735237	1.419941
H	-0.771547	0.353208	2.137574
C	-3.184813	1.529063	2.202966
H	-3.813513	2.392828	1.955602
H	-3.823323	0.644924	2.381756
H	-2.600521	1.745704	3.115918
C	1.774509	-0.723177	0.131016
C	2.836132	-1.625807	0.296027
C	2.544838	-2.978504	0.537432
C	1.212245	-3.422425	0.610066
C	0.143566	-2.519729	0.444489
H	3.873732	-1.288433	0.239262
H	3.361438	-3.692344	0.668383
H	1.003136	-4.478736	0.793869
H	-0.889361	-2.867225	0.480255
C	1.774136	0.724117	-0.131028
C	2.835294	1.627291	-0.296067
C	2.543301	2.979835	-0.537476
C	1.210479	3.423074	-0.610086
C	0.142267	2.519832	-0.444481
H	3.873067	1.290449	-0.239323
H	3.359532	3.694093	-0.668446
H	1.000827	4.479276	-0.793896
H	-0.890838	2.866799	-0.480231
C	-1.416488	-0.176224	-1.257400
O	-2.308063	-1.319244	-1.056111
H	-2.019067	0.734239	-1.419882
H	-0.771406	-0.353561	-2.137536
C	-3.184236	-1.530510	-2.202788
H	-3.812511	-2.394577	-1.955398
H	-2.599988	-1.746816	-3.115847
H	-3.823169	-0.646642	-2.381407

PBE.ML01

Ti	0.070887	0.046925	1.409168
Cl	1.146817	1.538243	2.747904
Cl	1.297351	-1.528725	0.366445
Cl	-2.009957	0.498531	0.608925
Cl	-0.646268	-1.255305	3.100049
O	0.719395	1.344352	-0.178754
C	0.661452	2.513571	-0.663192
O	1.331148	2.815534	-1.795683
C	-0.112857	3.641127	-0.074078

C	2.137127	1.715184	-2.445305
C	2.775917	2.317212	-3.680522
H	2.870196	1.365507	-1.705406
H	1.445175	0.892640	-2.672748
H	3.375954	1.545224	-4.187002
H	2.015891	2.679164	-4.387391
H	3.441456	3.152241	-3.419567
H	-1.174853	3.356582	-0.011378
H	0.233300	3.818252	0.956147
H	-0.001365	4.551361	-0.671349

PBE.ML01-cis

Ti	0.000001	0.000000	1.288666
Cl	0.675144	1.578419	2.794843
Cl	2.148638	-0.888348	0.947241
Cl	-2.148637	0.888348	0.947241
Cl	-0.675141	-1.578417	2.794844
O	0.569024	1.281380	-0.342078
C	0.618759	2.485437	-0.724786
O	1.283228	2.808452	-1.863314
C	0.003528	3.643003	-0.021602
C	1.986319	1.695147	-2.593959
C	2.842088	2.348230	-3.661991
H	2.570141	1.126632	-1.857210
H	1.209884	1.037841	-3.011410
H	3.372060	1.567138	-4.229287
H	2.230546	2.931176	-4.365561
H	3.593262	3.014245	-3.214225
H	-1.055462	3.421879	0.180086
H	0.486083	3.764873	0.961328
H	0.108734	4.560975	-0.608355
O	-0.569023	-1.281380	-0.342077
C	-0.618760	-2.485437	-0.724784
O	-1.283229	-2.808452	-1.863311
C	-1.986318	-1.695148	-2.593958
C	-2.842087	-2.348230	-3.661990
H	-2.570140	-1.126631	-1.857209
H	-1.209882	-1.037842	-3.011408
H	-3.372057	-1.567138	-4.229287
H	-2.230545	-2.931177	-4.365559
H	-3.593263	-3.014244	-3.214224
C	-0.003531	-3.643004	-0.021598
H	1.055459	-3.421881	0.180089
H	-0.486086	-3.764872	0.961331
H	-0.108737	-4.560976	-0.608350

PBE.ML02

Cl	-1.934357	-2.706464	-1.346032
Ti	0.003322	-2.473511	-0.159601
Cl	0.151300	-4.677703	0.297520
Cl	2.118561	-2.366139	-1.014945
Cl	-0.228187	-1.811947	1.987746
H	-0.396234	0.827325	1.367076
C	-0.435459	1.808125	0.892677
C	-0.327489	1.906761	-0.512377
C	-0.164022	0.677168	-1.300796
O	-0.112847	-0.481613	-0.780427
O	-0.070753	0.868409	-2.636472
C	0.099071	-0.326195	-3.541229
C	-0.591314	2.965969	1.661405

C	-0.640243	4.223684	1.037337
C	-0.533122	4.325839	-0.360978
C	-0.377199	3.173950	-1.137418
H	-0.293329	3.242872	-2.221080
H	-0.571444	5.304375	-0.843026
H	-0.761934	5.125953	1.640114
H	-0.674533	2.887355	2.746683
C	0.173931	0.213334	-4.955627
H	1.016717	-0.845069	-3.232960
H	-0.764244	-0.985994	-3.380879
H	0.298462	-0.629940	-5.652689
H	-0.745961	0.749755	-5.228795
H	1.031145	0.890093	-5.081132

PBE.ML03

Ti	-0.202481	-1.792700	0.000000
Cl	-2.305287	-0.744307	0.000000
Cl	-0.647530	-3.150637	1.758141
Cl	-0.647530	-3.150638	-1.758141
Cl	2.112496	-2.158473	0.000000
O	0.357622	-0.198379	1.336572
C	0.343600	1.038020	1.563666
O	0.872806	1.516156	2.722599
C	-0.240846	2.108098	0.712602
C	1.408871	0.492262	3.689706
C	-0.240847	2.108097	-0.712604
C	0.343600	1.038020	-1.563667
O	0.357622	-0.198380	-1.336572
O	0.872805	1.516155	-2.722601
C	1.408870	0.492260	-3.689707
C	-0.825501	3.197319	1.392825
C	-1.433060	4.249373	0.700164
C	-1.433061	4.249372	-0.700167
C	-0.825501	3.197318	-1.392827
H	-0.806292	3.200192	-2.481245
H	-1.899562	5.065112	-1.254745
H	-1.899561	5.065113	1.254743
H	-0.806291	3.200193	2.481243
C	1.999304	1.242463	-4.880445
H	2.161298	-0.108004	-3.156678
H	0.570845	-0.159639	-3.974987
C	2.412814	0.206982	-5.950087
H	1.204476	1.882072	-5.305716
C	3.189382	2.130957	-4.470289
C	1.999306	1.242465	4.880443
H	0.570846	-0.159637	3.974986
H	2.161298	-0.108003	3.156677
C	2.412816	0.206985	5.950085
C	3.189384	2.130959	4.470286
H	1.204478	1.882074	5.305714
H	3.583498	2.676393	5.341778
H	4.008264	1.517348	4.057568
H	2.896850	2.868256	3.708171
H	2.816059	0.718723	6.837111
H	1.559615	-0.410177	6.273137
H	3.196719	-0.467125	5.566710
H	2.816057	0.718720	-6.837113
H	3.196718	-0.467127	-5.566711
H	1.559613	-0.410180	-6.273138
H	3.583496	2.676391	-5.341781

H	2.896848	2.868254	-3.708174
H	4.008263	1.517347	-4.057571

PBE.ML04

Cl	-2.353966	-0.720084	-0.000001
Ti	-0.267792	-1.799778	0.000000
Cl	-0.731557	-3.150333	1.758644
Cl	-0.731556	-3.150333	-1.758644
Cl	2.041843	-2.197155	0.000000
O	0.315037	-0.212331	1.335767
C	0.321669	1.023675	1.564569
O	0.853808	1.489507	2.728379
C	-0.237706	2.106146	0.712770
C	1.369915	0.450058	3.693086
C	-0.237706	2.106146	-0.712769
C	0.321669	1.023675	-1.564569
O	0.315037	-0.212331	-1.335767
O	0.853808	1.489507	-2.728379
C	1.369915	0.450058	-3.693086
C	-0.796851	3.208838	1.392702
C	-1.380273	4.274459	0.700137
C	-1.380273	4.274459	-0.700137
C	-0.796851	3.208838	-1.392702
H	-0.776748	3.211411	-2.481036
H	-1.827679	5.100767	-1.254736
H	-1.827679	5.100767	1.254737
H	-0.776749	3.211410	2.481036
C	1.916505	1.202283	-4.890021
H	2.133491	-0.136996	-3.164956
H	0.530076	-0.212777	-3.944029
H	2.313839	0.476670	-5.616695
H	1.132400	1.790440	-5.388285
H	2.733731	1.877389	-4.598415
C	1.916505	1.202284	4.890020
H	0.530076	-0.212776	3.944030
H	2.133491	-0.136997	3.164956
H	2.313840	0.476671	5.616695
H	2.733731	1.877389	4.598414
H	1.132401	1.790441	5.388285

PBE.ML05

Cl	-1.925551	-2.666711	-1.420214
Ti	0.010853	-2.462746	-0.229580
Cl	0.165324	-4.674243	0.176874
Cl	2.119281	-2.324447	-1.092770
Cl	-0.216659	-1.847763	1.932019
H	-0.396193	0.800151	1.381913
C	-0.438953	1.793847	0.935189
C	-0.333974	1.931589	-0.466958
C	-0.168714	0.722349	-1.290276
O	-0.113202	-0.447548	-0.799107
O	-0.079865	0.952142	-2.618762
C	0.091132	-0.215528	-3.558720
C	-0.596383	2.930004	1.736514
C	-0.649583	4.200791	1.150231
C	-0.545211	4.345528	-0.249538
C	-0.387405	3.210139	-1.059087
H	-0.306910	3.319865	-2.137595
C	-0.608113	5.721016	-0.816485
H	-0.771710	5.098518	1.757411

H	-0.677447	2.822738	2.819169
C	0.157789	0.365356	-4.956898
H	1.012208	-0.738862	-3.268697
H	-0.768939	-0.883046	-3.413496
H	0.282976	-0.456940	-5.678474
H	-0.765452	0.905573	-5.210407
H	1.011478	1.049314	-5.065951
O	-0.494040	5.732207	-2.193551
O	-0.747802	6.756848	-0.136427
C	-0.547242	7.075610	-2.842273
C	-0.402326	6.851755	-4.336897
H	-1.505041	7.545185	-2.574477
H	0.265098	7.687894	-2.424196
H	-0.436376	7.821718	-4.857418
H	0.556089	6.367976	-4.575126
H	-1.217908	6.224867	-4.725734

PBE.ML06

Cl	-1.924821	-2.708664	-1.416137
Ti	0.013232	-2.516118	-0.225861
Cl	0.167502	-4.730351	0.162806
Cl	2.122337	-2.369221	-1.086509
Cl	-0.213895	-1.912970	1.936452
H	-0.393569	0.753194	1.400438
C	-0.435972	1.746063	0.952102
C	-0.330902	1.884663	-0.449526
C	-0.165546	0.676112	-1.274759
O	-0.110329	-0.494347	-0.786692
O	-0.076272	0.909495	-2.603424
C	0.094805	-0.256632	-3.545498
C	-0.592979	2.878755	1.751733
C	-0.646808	4.159551	1.165692
C	-0.541794	4.297847	-0.234540
C	-0.384856	3.168134	-1.038771
H	-0.303213	3.267876	-2.120169
H	-0.584367	5.291119	-0.678689
C	-0.815440	5.333482	2.068216
H	-0.675982	2.792816	2.835416
C	0.162469	0.325760	-4.942967
H	1.015435	-0.780768	-3.255459
H	-0.765546	-0.924049	-3.401381
H	0.287618	-0.495695	-5.665477
H	-0.760454	0.866423	-5.196797
H	1.016750	1.009141	-5.051252
O	-0.853031	6.529950	1.378140
O	-0.912983	5.259511	3.308826
C	-1.019922	7.758154	2.210547
C	-1.032656	8.940731	1.258695
H	-1.956935	7.659181	2.777893
H	-0.186674	7.798505	2.927294
H	-1.154380	9.872143	1.833648
H	-0.091285	9.006712	0.694092
H	-1.865557	8.867228	0.544424

PBE.ML07

Cl	-2.096888	-0.878807	-0.165607
Ti	0.073314	-1.758230	0.010263
Cl	-0.354765	-3.126231	1.764752
Cl	-0.109417	-3.251338	-1.677758
Cl	2.408733	-1.814233	0.185894

O	0.329265	-0.097246	1.382814
C	0.745742	1.063637	1.612613
O	1.006168	1.482449	2.873157
C	1.017543	2.115776	0.570106
C	0.843343	0.461059	3.976657
C	0.073970	2.054458	-0.659232
C	0.459801	1.017850	-1.677817
O	0.535183	-0.219361	-1.466068
O	0.731650	1.532587	-2.901438
C	1.081460	0.547931	-3.993151
H	0.933979	3.100324	1.049725
H	0.058913	3.033668	-1.152670
C	1.312077	1.358479	-5.252677
H	1.971994	-0.004008	-3.662556
H	0.242533	-0.156309	-4.078125
H	1.567532	0.674844	-6.077186
H	0.409798	1.917730	-5.538486
H	2.142231	2.068107	-5.126032
C	1.269273	1.138718	5.263151
H	-0.210442	0.150170	3.978546
H	1.466111	-0.405148	3.714517
H	1.161086	0.426050	6.095532
H	2.321002	1.455583	5.218649
H	0.643998	2.016660	5.479939
H	-0.953209	1.816672	-0.333701
H	2.071794	2.007951	0.258553

PBE.ML08

Ti	0.053867	-1.670239	0.356851
Cl	-2.220408	-1.069785	0.463483
Cl	0.028266	-2.965161	2.206474
Cl	-0.247357	-3.246013	-1.252216
Cl	2.388730	-1.595358	0.127036
O	0.423896	0.065859	1.620601
C	0.316513	1.322372	1.571380
O	1.049155	2.096050	2.411208
C	-0.597692	2.074371	0.626626
C	1.978873	1.380600	3.361533
C	0.085269	2.339765	-0.760410
C	0.176005	1.067791	-1.575762
O	0.143384	-0.105329	-1.126602
O	0.291175	1.293174	-2.909203
C	0.400411	0.073843	-3.796437
H	-1.429342	1.372484	0.437552
C	1.457520	3.115836	-0.693315
C	0.539915	0.580264	-5.218085
H	1.269139	-0.505188	-3.454321
H	-0.505201	-0.527608	-3.638089
H	0.617604	-0.281636	-5.898943
H	-0.333862	1.176387	-5.518023
H	1.444452	1.193728	-5.338581
C	2.751063	2.452582	4.104895
H	1.355306	0.761584	4.021568
H	2.619085	0.717968	2.763084
H	3.434985	1.971527	4.821329
H	3.352647	3.062304	3.415358
H	2.077518	3.116000	4.666329
H	-0.615253	2.981458	-1.315523
C	-1.214523	3.349689	1.286158
C	1.579864	4.131881	-1.847553

H	1.423553	3.679798	0.255019
C	2.691348	2.190163	-0.654635
H	3.596471	2.782186	-0.448778
H	2.621489	1.403072	0.109903
H	2.840996	1.687086	-1.624035
H	2.523062	4.694130	-1.761372
H	1.574576	3.623312	-2.824084
H	0.750991	4.858179	-1.835031
C	-2.134749	4.118860	0.313748
C	-2.024783	2.942901	2.538925
H	-0.396561	4.018487	1.603571
H	-2.666611	4.912856	0.860270
H	-1.585095	4.606551	-0.505666
H	-2.896009	3.452446	-0.126086
H	-2.444231	3.836198	3.026803
H	-2.861686	2.280358	2.263302
H	-1.407170	2.418635	3.282926

PBE.ML09

Cl	0.393026	1.588109	-2.293010
Ti	-0.000273	1.914131	-0.000382
Cl	1.713313	3.369328	0.295991
Cl	-1.714311	3.368720	-0.297115
Cl	-0.393468	1.588555	2.292327
O	1.363535	0.253300	0.199177
C	1.595412	-0.982246	0.243426
O	2.860314	-1.446020	0.068647
C	0.590904	-2.081215	0.514102
C	3.935423	-0.412652	-0.173390
C	-0.590208	-2.081525	-0.513881
C	-1.595056	-0.982801	-0.243479
O	-1.363562	0.252826	-0.199527
O	-2.859815	-1.446926	-0.068593
C	-3.935247	-0.413835	0.173188
H	1.130247	-3.029773	0.369773
H	-1.129257	-3.030214	-0.369319
C	-5.232661	-1.172889	0.368999
H	-3.636450	0.171345	1.053670
H	-3.951622	0.252350	-0.700587
H	-6.047377	-0.452525	0.541392
H	-5.484751	-1.770129	-0.519065
H	-5.177254	-1.841770	1.239918
C	5.233073	-1.171348	-0.369022
H	3.636440	0.172220	-1.054013
H	3.951594	0.253751	0.700222
H	6.047563	-0.450772	-0.541595
H	5.485354	-1.768293	0.519186
H	5.177871	-1.840459	-1.239777
C	-0.123112	-2.046766	-2.013005
C	0.123802	-2.046225	2.013218
C	-0.759941	-3.268883	2.335705
C	1.332197	-1.991653	2.970479
H	-0.461223	-1.122953	2.166890
C	-1.331520	-1.992815	-2.970284
H	0.461623	-1.123348	-2.166906
C	0.761017	-3.269227	-2.335181
H	0.983860	-2.014433	4.014008
H	2.005716	-2.851421	2.815421
H	1.913850	-1.065504	2.844744
H	-1.043376	-3.247065	3.399448

H	-1.690200	-3.288912	1.749073
H	-0.213692	-4.210720	2.155013
H	-0.983171	-2.015739	-4.013806
H	-2.004765	-2.852760	-2.815019
H	-1.913469	-1.066821	-2.844777
H	1.044446	-3.247590	-3.398929
H	1.691282	-3.288813	-1.748543
H	0.215066	-4.211190	-2.154249

PBE.ML10

Ti	0.039668	0.100301	1.079289
Cl	2.248653	-0.220717	0.710986
Cl	-1.460213	-0.801693	-0.378879
Cl	-0.171764	-1.549844	2.603484
Cl	-0.636632	1.758204	2.461155
O	0.211325	1.660772	-0.431237
C	-0.786027	2.773294	-0.628862
C	-0.320114	3.480137	-1.899151
C	0.237712	2.322664	-2.757043
C	0.941063	1.424520	-1.736804
H	-1.776875	2.306659	-0.742388
H	-0.754507	3.381266	0.279787
H	0.470582	4.210282	-1.667096
H	-1.147448	4.007561	-2.393709
H	0.933657	2.670625	-3.532910
H	-0.584631	1.778461	-3.246274
H	0.869724	0.354281	-1.963211
H	1.987117	1.701537	-1.552441

PBE.ML10-cis

Ti	0.000001	0.000000	0.893465
Cl	2.337024	-0.002083	0.628450
Cl	-2.337023	0.002083	0.628452
Cl	0.008651	-1.725253	2.395813
Cl	-0.008649	1.725253	2.395813
O	-0.027305	1.435455	-0.744446
O	0.027305	-1.435455	-0.744446
C	-0.978233	2.607063	-0.806816
C	-0.344729	3.571476	-1.811230
C	0.429555	2.635328	-2.766928
C	1.014401	1.591895	-1.816183
C	0.978232	-2.607064	-0.806815
C	0.344728	-3.571477	-1.811230
C	-0.429555	-2.635327	-2.766928
C	-1.014401	-1.591894	-1.816183
H	-1.946083	2.205927	-1.135567
H	-1.065272	2.996691	0.213511
H	0.349995	4.258377	-1.303592
H	-1.106461	4.169232	-2.330771
H	1.218174	3.159953	-3.324172
H	-0.257165	2.168688	-3.491376
H	1.172681	0.598357	-2.250080
H	1.938627	1.927857	-1.327258
H	1.946082	-2.205929	-1.135566
H	1.065270	-2.996692	0.213512
H	1.106459	-4.169233	-2.330771
H	-0.349998	-4.258377	-1.303592
H	0.257166	-2.168688	-3.491376
H	-1.218175	-3.159951	-3.324172
H	-1.172679	-0.598356	-2.250080

H	-1.938627	-1.927855	-1.327258

PBE.ML11			
Ti	-1.195209	-2.008412	0.207335
Cl	-3.319668	-1.309971	0.834500
Cl	-1.053696	-3.751953	1.642061
Cl	-1.874012	-3.025936	-1.701910
Cl	1.099380	-2.041940	-0.380919
O	-0.528906	-0.616208	1.771907
C	-0.815548	0.800145	1.453172
O	-1.085058	0.024713	-0.792427
C	-0.400643	1.050771	0.017033
H	-1.897069	0.925160	1.586453
H	-0.263710	1.449798	2.147077
H	-0.732933	2.046600	-0.318355
H	0.687786	0.943701	-0.124999
C	-0.817430	0.180898	-2.238232
H	-1.078256	1.208096	-2.532350
H	0.240724	-0.038472	-2.445380
H	-1.461424	-0.540764	-2.746597
C	0.633598	-0.841520	2.656889
H	1.560507	-0.526209	2.156838
H	0.466096	-0.287220	3.591281
H	0.659870	-1.917949	2.847463

PBE.ML12			
Ti	-1.096160	-1.924585	0.178107
Cl	-2.423444	-0.002265	0.429650
Cl	-1.608461	-2.731959	2.244857
Cl	-2.637897	-3.074532	-1.035852
Cl	0.636609	-3.466839	-0.196751
O	0.534896	-0.689305	1.030010
C	0.764077	0.736021	0.678188
O	-0.386363	-0.947982	-1.655696
C	1.091639	0.867186	-0.807865
H	-0.145069	1.290779	0.951970
H	1.608724	1.090707	1.286584
H	1.346969	1.925644	-0.997680
H	1.985535	0.268141	-1.046750
C	-0.061066	-1.704697	-2.884128
H	1.027762	-1.705457	-3.038945
H	-0.418663	-2.725061	-2.731779
H	-0.585756	-1.238989	-3.731136
C	1.325879	-1.149454	2.191314
C	-0.054423	0.499643	-1.747989
H	0.220072	0.703049	-2.793124
H	-0.977988	1.038999	-1.498943
H	0.930810	-0.689004	3.108640
H	1.220170	-2.235801	2.232298
H	2.380221	-0.879830	2.032651

PBE.ML13			
Ti	-0.664688	-2.213813	0.047272
Cl	-2.600927	-1.060772	0.709111
Cl	-0.474933	-3.435508	1.961582
Cl	-1.787904	-3.791073	-1.154976
Cl	1.461000	-2.787093	-0.768552
O	0.385517	-0.535386	1.039315
C	1.549285	0.237313	0.508235
O	-0.704675	-0.864861	-1.713513

C	1.187759	1.000884	-0.778042
H	1.828948	0.939570	1.307507
H	2.366182	-0.478244	0.346311
H	1.850649	1.880376	-0.826019
H	1.424797	0.376127	-1.650709
C	-0.584321	-1.445397	-3.072297
H	0.026661	-0.772428	-3.691350
H	-0.087018	-2.411340	-2.964688
H	-1.588053	-1.575295	-3.502043
C	0.141357	-0.269632	2.477135
C	-0.297005	1.444131	-0.828391
H	-0.376276	2.473831	-1.214356
H	-0.728773	1.448109	0.181815
H	0.093785	0.817861	2.633725
H	-0.817232	-0.727309	2.729146
H	0.950366	-0.719414	3.070559
C	-1.154927	0.559788	-1.745591
H	-2.215345	0.576471	-1.459875
H	-1.049797	0.880351	-2.793068

PBE.ML14

Ti	-1.266434	-1.677238	0.450585
Cl	-1.780767	0.610530	0.681005
Cl	-1.637195	-2.158986	2.645389
Cl	-3.341565	-2.172822	-0.354362
Cl	-0.369879	-3.777056	-0.084547
O	0.789121	-1.107166	0.909015
C	1.437084	0.142228	0.419719
O	-0.491303	-1.124072	-1.566182
C	1.644722	0.121432	-1.110742
H	0.781113	0.967046	0.725349
H	2.400870	0.230649	0.939304
C	2.375013	1.454880	-1.492999
C	2.513332	-1.129932	-1.521502
C	-1.228891	-1.624140	-2.749531
H	-0.564178	-1.584838	-3.623726
H	-1.502389	-2.659581	-2.529097
H	-2.129588	-1.015614	-2.913478
C	1.560224	-1.816425	1.954661
C	0.279767	0.124529	-1.828545
H	0.426290	0.192702	-2.915845
H	-0.345130	0.961610	-1.490110
H	1.485062	-1.260319	2.900214
H	1.112401	-2.807691	2.057411
H	2.604723	-1.906451	1.626695
H	2.749398	1.346283	-2.524349
C	1.569868	2.770445	-1.383034
H	3.271498	1.541221	-0.852889
C	2.451631	4.042952	-1.467920
H	0.810673	2.826740	-2.184851
H	1.014124	2.804828	-0.429949
C	1.595834	5.301254	-1.215052
H	3.210441	3.977385	-0.662808
C	3.192520	4.154864	-2.817104
H	2.217849	6.210585	-1.222654
H	0.826107	5.415055	-1.997648
H	1.082013	5.248634	-0.241692
H	3.784691	5.082704	-2.861105
H	3.882787	3.313390	-2.985112
H	2.472431	4.177229	-3.653774

C	2.567127	-1.388284	-3.044045
C	3.963608	-1.069683	-0.984503
H	2.012440	-2.001432	-1.066652
H	3.240095	-2.236040	-3.246641
H	1.586424	-1.655715	-3.460722
H	2.958343	-0.521486	-3.602890
H	4.448615	-2.047758	-1.129407
H	4.565827	-0.321738	-1.525267
H	4.024726	-0.833192	0.089016

PBE.ML15

Ti	-0.950270	-2.140014	0.296094
Cl	-2.333807	-0.242584	0.462779
Cl	-1.262530	-2.726881	2.472458
Cl	-2.568056	-3.399882	-0.690781
Cl	0.737554	-3.743302	-0.058867
O	0.707541	-0.799829	0.843547
C	0.794666	0.618635	0.407299
O	-0.321476	-1.332175	-1.653269
C	0.989919	0.742100	-1.119049
H	-0.133276	1.109585	0.728690
H	1.656024	1.071443	0.916897
C	1.044445	2.241477	-1.461263
C	2.370612	0.261814	-1.585359
C	-0.356424	-2.163659	-2.879406
H	0.511941	-1.906083	-3.501582
H	-0.292820	-3.204375	-2.552755
H	-1.300651	-1.984023	-3.413153
C	1.636370	-1.133550	1.949069
C	-0.168064	0.120441	-1.928803
H	0.041491	0.235792	-3.000935
H	-1.125582	0.596278	-1.679414
H	1.294606	-0.641957	2.871161
H	1.610513	-2.220032	2.061838
H	2.646442	-0.803842	1.668833
C	2.294447	2.568022	-2.045808
C	2.563631	3.887951	-2.438188
C	1.577833	4.869448	-2.241329
C	0.339554	4.541488	-1.661240
C	0.063530	3.218225	-1.265394
H	3.521634	4.154615	-2.889699
H	1.775739	5.900265	-2.542627
H	-0.414722	5.317248	-1.515821
H	-0.901847	2.973373	-0.815347
C	2.922254	-1.022642	-1.538426
C	4.227075	-1.216480	-2.034342
C	4.962858	-0.142937	-2.566365
C	4.411199	1.147848	-2.614621
C	3.112767	1.348098	-2.122693
H	2.360468	-1.863103	-1.127843
H	4.669046	-2.214665	-2.003348
H	5.972706	-0.313463	-2.945787
H	4.988222	1.977455	-3.029225

PBE1.M

Ti	0.000009	0.000028	-0.000058
Cl	1.715561	-1.118940	0.771244
Cl	-1.290696	-1.343564	-1.148486
Cl	0.706115	1.617128	-1.294847
Cl	-1.130999	0.845354	1.672167

PBE1.L01

O	1.226765	1.350599	0.000000
C	1.059271	0.132750	-0.000001
O	-0.177908	-0.441843	-0.000001
C	2.141591	-0.894063	0.000000
C	-1.330809	0.463731	0.000001
C	-2.571186	-0.395228	0.000000
H	-1.267854	1.103627	0.882740
H	-1.267854	1.103629	-0.882736
H	-3.461626	0.239023	0.000001
H	-2.605090	-1.033365	-0.884910
H	-2.605090	-1.033368	0.884907
H	3.108790	-0.397567	-0.000014
H	2.055842	-1.535068	0.879780
H	2.055825	-1.535089	-0.879762

PBE1.L02

O	-1.446598	0.159443	1.081752
C	-0.320349	0.127707	1.584148
O	-0.123394	0.161802	2.931618
C	0.938157	0.050409	0.816418
C	-1.320317	0.238772	3.770616
C	0.854709	0.009969	-0.578754
H	-0.123598	0.036696	-1.042017
C	2.188341	0.017315	1.441739
C	3.345061	-0.055777	0.672776
C	3.259418	-0.096006	-0.718157
C	2.013071	-0.063055	-1.342991
H	1.946069	-0.094301	-2.423830
H	4.162654	-0.152960	-1.314494
H	4.313680	-0.081403	1.157565
H	2.243444	0.048998	2.521350
C	-0.856899	0.265184	5.206353
H	-1.877581	1.137128	3.496752
H	-1.951461	-0.625469	3.553034
H	-1.721552	0.322741	5.872801
H	-0.294467	-0.637204	5.453181
H	-0.220294	1.131247	5.396684

PBE1.L03

O	-0.904406	1.074558	0.355905
C	-0.048826	0.305685	0.793613
O	-0.301157	-0.578141	1.797163
C	1.365373	0.277757	0.355882
C	-1.655482	-0.573255	2.350619
C	1.722571	0.672642	-0.942717
C	0.733676	0.940555	-2.017736
O	0.779282	1.913799	-2.767837
O	-0.174726	-0.057615	-2.139127
C	-1.271205	0.160522	-3.082080
C	2.367898	-0.029232	1.278803
C	3.709529	0.080488	0.929316
C	4.061519	0.506997	-0.348233
C	3.069536	0.802684	-1.277551
H	3.326774	1.131084	-2.276863
H	5.104605	0.606634	-0.622881
H	4.476822	-0.154914	1.656787
H	2.083577	-0.335254	2.276320
C	-2.174762	-1.058612	-3.040291

H	-1.798822	1.068207	-2.780097
H	-0.851833	0.317709	-4.080045
C	-3.409209	-0.797181	-3.907753
C	-1.438173	-2.321614	-3.486232
H	-2.500199	-1.188038	-2.000908
C	-1.722156	-1.618592	3.449940
H	-1.874005	0.428470	2.732545
H	-2.358434	-0.789907	1.542928
C	-3.168185	-1.735325	3.940511
H	-1.424449	-2.578165	3.009969
C	-0.771508	-1.291059	4.601256
H	-2.089923	-3.196940	-3.415017
H	-1.113331	-2.230919	-4.528789
H	-0.555097	-2.501501	-2.870366
H	-4.090993	-1.650673	-3.871747
H	-3.959554	0.086562	-3.572367
H	-3.127106	-0.642972	-4.954766
H	-0.814059	-2.066062	5.371360
H	0.260378	-1.214488	4.253595
H	-1.044770	-0.339030	5.069559
H	-3.249577	-2.503370	4.713545
H	-3.512687	-0.790796	4.374722
H	-3.851086	-2.003130	3.129102

PBE1.L04

O	-1.151328	0.984833	0.450341
C	-0.294654	0.225065	0.902159
O	-0.524098	-0.584995	1.971549
C	1.098715	0.133154	0.410912
C	-1.853320	-0.504094	2.582592
C	1.412766	0.455744	-0.918378
C	0.388527	0.707576	-1.963906
O	0.425142	1.652555	-2.749969
O	-0.544020	-0.274509	-2.016104
C	-1.666047	-0.064899	-2.934615
C	2.129071	-0.164093	1.306172
C	3.457465	-0.114289	0.897642
C	3.768334	0.241587	-0.411821
C	2.747805	0.526371	-1.313208
H	2.973350	0.799851	-2.336424
H	4.801540	0.294521	-0.732901
H	4.247121	-0.341409	1.603482
H	1.876593	-0.415865	2.327169
C	-2.586115	-1.251510	-2.789555
H	-2.151460	0.874241	-2.661364
H	-1.270971	0.035892	-3.947550
H	-3.440909	-1.141488	-3.462174
H	-2.070291	-2.180619	-3.039516
H	-2.961521	-1.328713	-1.767688
C	-1.867716	-1.464154	3.746304
H	-2.029533	0.528841	2.890440
H	-2.595979	-0.759386	1.823921
H	-2.847600	-1.443460	4.230405
H	-1.671190	-2.484847	3.413513
H	-1.114622	-1.193010	4.488568

PBE1.L05

O	1.191491	0.178622	0.990865
C	0.760022	1.223850	1.479827
O	0.805038	1.480090	2.816484

C	0.146886	2.322167	0.704041
C	1.397949	0.444377	3.665658
C	0.045723	2.173174	-0.678454
H	0.411144	1.271621	-1.153611
C	-0.325610	3.487416	1.316644
C	-0.895366	4.494895	0.545175
C	-0.997469	4.348724	-0.834323
C	-0.525727	3.184489	-1.449434
C	-0.611399	2.981958	-2.910846
H	-1.439119	5.127347	-1.441220
H	-1.260945	5.396820	1.020519
H	-0.242454	3.593362	2.389719
C	1.337963	0.945384	5.087498
H	0.834524	-0.480497	3.525799
H	2.421593	0.267012	3.329359
H	1.771964	0.200576	5.759710
H	1.899075	1.874953	5.199780
H	0.306649	1.124917	5.396867
O	-1.186114	4.032842	-3.558663
O	-0.212004	1.977618	-3.502063
C	-1.312969	3.919619	-5.013459
C	-1.970302	5.186115	-5.503505
H	-0.316393	3.777009	-5.436424
H	-1.903396	3.029380	-5.239881
H	-2.085687	5.145391	-6.589779
H	-2.959536	5.311674	-5.059434
H	-1.367189	6.061837	-5.256696

PBE1.L06

O	1.087130	0.237577	0.867381
C	0.689794	1.256101	1.437536
O	0.820085	1.442713	2.778037
C	0.030698	2.391257	0.756724
C	1.463400	0.366602	3.535873
C	-0.156618	2.307570	-0.625970
H	0.185001	1.421163	-1.145034
C	-0.400647	3.524514	1.453121
C	-1.014067	4.563787	0.768541
C	-1.201384	4.480100	-0.614154
C	-0.770038	3.346843	-1.310550
H	-0.918703	3.289944	-2.379906
C	-1.860479	5.615256	-1.294966
H	-1.355686	5.450194	1.287604
H	-0.251982	3.581413	2.522477
C	1.491080	0.795246	4.982040
H	0.891502	-0.551179	3.384030
H	2.464297	0.209260	3.128541
H	1.965208	0.018642	5.587874
H	2.058297	1.719481	5.106363
H	0.480857	0.956369	5.362688
O	-1.990769	5.428645	-2.635467
O	-2.257815	6.633781	-0.724811
C	-2.634085	6.504756	-3.393302
C	-2.661764	6.076113	-4.839470
H	-3.634983	6.662097	-2.985971
H	-2.062187	7.422537	-3.241459
H	-3.135891	6.852717	-5.445303
H	-1.651540	5.914989	-5.220118
H	-3.228980	5.151877	-4.963794

PBE1.L07

C	-5.348104	0.634001	0.310269
C	-4.275854	-0.335000	-0.122440
O	-2.984194	0.324638	0.095833
C	-1.867159	-0.378574	-0.230864
O	-1.906221	-1.529200	-0.666190
O	1.906096	1.527831	-0.669664
C	1.867116	0.378094	-0.231987
C	0.626067	-0.430684	-0.014698
C	-0.626069	0.430641	-0.015448
H	-0.560891	1.178978	-0.812990
O	2.984213	-0.324447	0.095940
C	4.275830	0.334749	-0.123910
C	5.348162	-0.633354	0.310603
H	0.560735	-1.180628	-0.810716
H	0.729187	-0.998766	0.912379
H	-0.729011	1.000594	0.910501
H	-4.354440	-0.597737	-1.179532
H	-4.292355	-1.261065	0.455924
H	4.354232	0.595315	-1.181553
H	4.292425	1.262001	0.452548
H	-6.334003	0.185148	0.163260
H	-5.241824	0.889475	1.366093
H	-5.300612	1.555591	-0.272521
H	6.334033	-0.184800	0.162499
H	5.242068	-0.886658	1.366968
H	5.300573	-1.556141	-0.270283

PBE1.L08

C	0.722004	0.947329	-2.843381
C	-0.549865	1.673611	-2.480646
O	-0.165242	3.001824	-1.990446
C	-1.174701	3.817981	-1.584250
O	-2.355116	3.469787	-1.638509
C	-0.733238	5.166853	-1.062493
C	-1.084949	5.304912	0.454370
C	-2.574173	5.133511	0.665607
O	-3.125167	4.336111	1.419893
C	0.712940	5.565353	-1.424149
C	0.856147	5.712750	-2.945077
C	1.127544	6.883402	-0.760232
C	-0.208904	4.499291	1.438065
C	-0.368705	2.975836	1.379310
C	-0.414196	5.006821	2.871590
O	-3.273447	6.043754	-0.070025
C	-4.731966	5.917776	-0.056290
C	-5.279410	6.963842	-0.996134
H	1.374577	0.842308	-1.974657
H	1.270457	1.479808	-3.622708
H	0.483283	-0.052676	-3.214795
H	-1.111492	1.166761	-1.693020
H	-1.216696	1.802074	-3.335710
H	-1.401927	5.876508	-1.564240
H	-0.906056	6.363980	0.674493
H	1.392274	4.773681	-1.092033
H	1.886889	5.966376	-3.208062
H	0.595370	4.794146	-3.471208
H	0.212019	6.518937	-3.313383
H	2.111059	7.190136	-1.126377
H	0.421243	7.684655	-1.004611

H	1.194912	6.810754	0.327515
H	0.827864	4.729205	1.160828
H	0.269031	2.515931	2.140359
H	-1.399421	2.681572	1.577155
H	-0.060986	2.568403	0.415205
H	0.312826	4.544147	3.544895
H	-0.282772	6.092199	2.935554
H	-1.413855	4.759364	3.233790
H	-4.983873	4.903083	-0.370619
H	-5.083355	6.054561	0.968639
H	-4.992267	7.967890	-0.677241
H	-4.911524	6.805128	-2.011470
H	-6.371211	6.909574	-1.015335

PBE1.L09

C	-1.434078	0.736041	0.832899
H	-1.799729	1.429557	1.591160
H	-0.406956	0.466048	1.081418
H	-2.054652	-0.164126	0.865649
C	-1.509952	1.353154	-0.547313
H	-1.188434	0.659480	-1.322884
H	-2.514401	1.716056	-0.771980
O	-0.573600	2.476562	-0.682834
C	-0.960177	3.685879	-0.199497
C	0.117555	4.732362	-0.339034
O	-2.071301	3.886972	0.292272
C	0.710326	4.770455	-1.767525
H	-0.392142	5.686062	-0.181638
C	1.157827	4.613848	0.819287
H	1.881493	5.417339	0.654639
C	0.553283	4.806864	2.230176
C	1.921140	3.311991	0.759201
C	1.743456	5.889680	-1.919534
H	1.198111	3.812474	-1.966040
C	-0.417650	4.960883	-2.788359
H	-0.013516	4.978941	-3.804088
H	-1.155711	4.156390	-2.740847
H	-0.939873	5.908913	-2.620016
H	2.048327	5.977327	-2.966220
H	1.322700	6.856013	-1.618287
H	2.642826	5.701443	-1.331925
O	2.996325	3.391250	-0.077701
O	1.649264	2.294505	1.393284
C	3.806011	2.180106	-0.254916
C	3.228335	1.294335	-1.338178
H	4.790670	2.561777	-0.520389
H	3.858902	1.658622	0.701724
H	3.862595	0.413822	-1.473928
H	2.226141	0.956760	-1.069813
H	3.174114	1.826016	-2.290377
C	1.677212	4.893463	3.269735
C	-0.332998	6.052168	2.320495
H	-0.055090	3.925309	2.459371
H	1.258284	4.989967	4.274794
H	2.312360	4.005385	3.262668
H	2.306421	5.771874	3.086563
H	-0.611182	6.231324	3.362658
H	0.199086	6.942962	1.966031
H	-1.257174	5.945022	1.750960

PBE1.L10

O	0.000000	-1.267607	-0.000099
C	1.184720	-0.423865	0.134062
C	0.732086	0.988153	-0.229628
C	-0.732084	0.988121	0.229770
C	-1.184721	-0.423846	-0.134122
H	1.540164	-0.475446	1.168792
H	1.958325	-0.820237	-0.524784
H	0.788877	1.142280	-1.311133
H	1.330259	1.760418	0.257447
H	-1.330257	1.760456	-0.257194
H	-0.788875	1.142094	1.311297
H	-1.958320	-0.820313	0.524674
H	-1.540176	-0.475276	-1.168856

PBE1.L11

C	0.042329	-0.073299	0.072121
H	-0.007425	0.012745	1.155629
H	1.093183	-0.107984	-0.240603
H	-0.453083	-1.000658	-0.240718
O	-0.623650	1.080358	-0.464285
C	-0.638493	1.105934	-1.903005
C	-1.364976	2.364176	-2.313661
H	0.383742	1.115417	-2.301399
H	-1.157840	0.225360	-2.301295
O	-1.379819	2.389752	-3.752381
H	-2.387211	2.354694	-1.915268
H	-0.845629	3.244750	-1.915371
C	-2.045798	3.543409	-4.288787
H	-1.996044	3.457365	-5.372295
H	-3.096652	3.578094	-3.976063
H	-1.550386	4.470768	-3.975948

PBE1.L12

C	0.013417	-0.023373	0.198084
H	-0.073705	0.127419	1.272141
H	1.075055	-0.076567	-0.074420
H	-0.471260	-0.969390	-0.074506
O	-0.632384	1.095191	-0.429468
C	-0.595979	1.032323	-1.867661
C	-1.303844	2.258546	-2.405951
H	0.449426	1.000157	-2.210714
H	-1.090850	0.110949	-2.210844
C	-1.321663	2.289299	-3.920280
H	-2.330278	2.275898	-2.032449
H	-0.805550	3.156093	-2.032482
O	-2.011832	3.484503	-4.331177
H	-0.298056	2.294904	-4.325009
H	-1.838244	1.405547	-4.324912
C	-2.092417	3.624030	-5.758099
H	-2.627812	4.551235	-5.951929
H	-1.094621	3.681399	-6.211172
H	-2.640910	2.788528	-6.211150

PBE1.L13

C	0.065421	-0.113380	0.160099
H	0.006347	-0.011197	1.241880
H	1.119574	-0.154137	-0.141923
H	-0.426565	-1.046531	-0.142061
O	-0.595329	1.031491	-0.400626

C	-0.596523	1.033473	-1.841725
C	-1.316261	2.279913	-2.312604
H	0.438423	1.019497	-2.214871
H	-1.101827	0.130125	-2.214784
C	-1.370745	2.374118	-3.837396
H	-2.328461	2.273693	-1.894631
H	-0.804817	3.153461	-1.894723
C	-2.090483	3.620557	-4.308274
H	-0.358545	2.380337	-4.255369
H	-1.882189	1.500569	-4.255277
O	-2.091677	3.622539	-5.749374
H	-3.125428	3.634533	-3.935129
H	-1.585179	4.523905	-3.935216
C	-2.752427	4.767411	-6.310099
H	-2.693352	4.665228	-7.391880
H	-3.806579	4.808168	-6.008077
H	-2.260441	5.700561	-6.007938

PBE1.L14

C	0.496642	0.066507	0.018984
H	0.852683	0.339162	1.010637
H	1.351798	-0.213379	-0.609594
H	-0.179166	-0.794313	0.100301
O	-0.182537	1.215564	-0.508999
C	-0.692145	0.992632	-1.837396
C	-1.418085	2.239022	-2.365711
H	0.149851	0.734813	-2.498457
H	-1.372360	0.129290	-1.826804
C	-1.399867	2.098400	-3.892489
C	-2.896321	2.321078	-1.861054
C	-0.674121	3.531727	-1.958006
O	-2.136650	3.182636	-4.485217
H	-0.364433	2.116534	-4.257598
H	-1.840683	1.139476	-4.201080
C	-2.143504	3.134066	-5.920160
H	-2.717025	3.993649	-6.261627
H	-1.125400	3.192982	-6.324946
H	-2.617134	2.213706	-6.284952
H	-3.255337	3.299592	-2.199497
C	-3.823211	1.269887	-2.483766
C	-3.028116	2.269269	-0.334137
H	-4.065180	2.472900	-0.049447
H	-2.759893	1.284388	0.057244
H	-2.393801	3.000691	0.167562
H	-4.823055	1.358023	-2.048719
H	-3.925597	1.402327	-3.562522
H	-3.479419	0.247864	-2.289733
H	-1.270782	4.370600	-2.326644
H	-0.662432	3.588246	-0.867557
C	0.766220	3.667376	-2.455661
C	1.550753	4.797606	-1.769569
H	1.307604	2.730037	-2.281529
H	0.783158	3.849937	-3.538456
C	3.012326	4.786149	-2.224682
C	0.923274	6.171444	-2.020407
H	1.528677	4.602597	-0.688009
H	3.594902	5.556017	-1.709748
H	3.483009	3.818314	-2.026338
H	3.083709	4.979419	-3.301080
H	1.512923	6.962580	-1.547277

H	0.879893	6.383685	-3.094805
H	-0.093721	6.234425	-1.626417

PBE1.L15

C	-0.530024	-0.000098	0.000030
C	-1.403945	0.174242	1.245103
C	0.431232	-1.163621	0.202304
C	0.430648	1.163901	-0.202287
O	-2.289027	1.292147	1.042349
H	-1.992468	-0.735339	1.408008
H	-0.766013	0.352687	2.120072
C	-3.174111	1.507128	2.152349
H	-3.799827	2.360235	1.896611
H	-3.809213	0.630093	2.326576
H	-2.614174	1.730009	3.068784
C	1.764908	-0.720432	0.128747
C	2.818082	-1.616118	0.291229
C	2.528203	-2.959103	0.529007
C	1.205341	-3.398670	0.599880
C	0.145800	-2.501824	0.436008
H	3.847985	-1.281483	0.235650
H	3.337591	-3.668527	0.658300
H	0.997457	-4.447002	0.780960
H	-0.879961	-2.845131	0.470884
C	1.764546	0.721371	-0.128790
C	2.817270	1.617577	-0.291322
C	2.526716	2.960418	-0.529089
C	1.203634	3.399331	-0.599903
C	0.144543	2.501961	-0.435981
H	3.847341	1.283451	-0.235789
H	3.335747	3.670242	-0.658420
H	0.995223	4.447560	-0.780976
H	-0.881389	2.844761	-0.470812
C	-1.403914	-0.174869	-1.245004
O	-2.288439	-1.293206	-1.042209
H	-1.992890	0.734424	-1.407887
H	-0.765934	-0.353005	-2.120001
C	-3.173466	-1.508626	-2.152169
H	-3.798752	-2.362040	-1.896401
H	-2.613460	-1.731235	-3.068628
H	-3.809006	-0.631904	-2.326372

PBE1.ML01

Ti	0.093840	0.069104	1.364089
Cl	1.139371	1.537958	2.718535
Cl	1.316961	-1.474605	0.309741
Cl	-1.983013	0.509926	0.603892
Cl	-0.593181	-1.255099	3.021879
O	0.705244	1.366887	-0.169515
C	0.660344	2.517845	-0.664162
O	1.326528	2.791157	-1.777322
C	-0.105159	3.643444	-0.086723
C	2.117874	1.708111	-2.413497
C	2.756603	2.298487	-3.642217
H	2.845870	1.357427	-1.680918
H	1.434125	0.889027	-2.639792
H	3.351450	1.530586	-4.142830
H	2.003788	2.658274	-4.345124
H	3.417590	3.127385	-3.384769
H	-1.160126	3.364705	-0.022418

H	0.239463	3.825813	0.934395
H	0.009194	4.541190	-0.686979

PBE1.ML01-cis			
Ti	0.000000	0.000001	1.208509
Cl	0.644383	1.575827	2.700412
Cl	2.149220	-0.852486	0.898074
Cl	-2.149220	0.852488	0.898072
Cl	-0.644385	-1.575825	2.700413
O	0.534349	1.268436	-0.378028
C	0.591429	2.455107	-0.770026
O	1.298260	2.760622	-1.857778
C	-0.071007	3.599442	-0.111765
C	2.050108	1.678937	-2.532899
C	2.943746	2.337230	-3.551405
H	2.602635	1.126697	-1.771831
H	1.320593	1.005376	-2.986192
H	3.514492	1.571170	-4.082315
H	2.363407	2.901476	-4.283244
H	3.650800	3.015595	-3.071651
H	-1.124583	3.362538	0.049957
H	0.367097	3.741161	0.880285
H	0.041343	4.504365	-0.701785
O	-0.534349	-1.268435	-0.378028
C	-0.591429	-2.455106	-0.770026
O	-1.298260	-2.760622	-1.857778
C	-2.050107	-1.678938	-2.532899
C	-2.943746	-2.337232	-3.551404
H	-2.602633	-1.126697	-1.771832
H	-1.320593	-1.005378	-2.986194
H	-3.514493	-1.571173	-4.082314
H	-2.363408	-2.901480	-4.283242
H	-3.650800	-3.015596	-3.071648
C	0.071007	-3.599441	-0.111764
H	1.124583	-3.362537	0.049959
H	-0.367097	-3.741160	0.880286
H	-0.041343	-4.504365	-0.701783

PBE1.ML02			
Cl	-1.914776	-2.677381	-1.351959
Ti	0.000998	-2.433327	-0.171569
Cl	0.149524	-4.616449	0.282836
Cl	2.097431	-2.335889	-1.019922
Cl	-0.231423	-1.784157	1.957170
H	-0.395406	0.823980	1.352506
C	-0.433453	1.795739	0.877600
C	-0.326035	1.891156	-0.515580
C	-0.163963	0.668437	-1.298155
O	-0.114648	-0.476056	-0.778438
O	-0.070940	0.846167	-2.610881
C	0.096067	-0.317120	-3.514746
C	-0.587701	2.948952	1.635783
C	-0.635062	4.194359	1.010936
C	-0.528126	4.290335	-0.377229
C	-0.373808	3.143721	-1.143510
H	-0.289956	3.206822	-2.219744
H	-0.565322	5.259448	-0.858902
H	-0.755429	5.092239	1.605386
H	-0.670809	2.876052	2.712815
C	0.168568	0.230692	-4.915506

H	1.007329	-0.837691	-3.219367
H	-0.758354	-0.977646	-3.365357
H	0.292139	-0.597481	-5.617698
H	-0.744904	0.766051	-5.179082
H	1.017895	0.905438	-5.033293

PBE1.ML03

Ti	-0.064326	-1.752611	0.000000
Cl	-2.172712	-0.748772	-0.000001
Cl	-0.494161	-3.102890	1.741084
Cl	-0.494160	-3.102891	-1.741083
Cl	2.228166	-2.104837	0.000001
O	0.448719	-0.176353	1.308126
C	0.411192	1.039575	1.559737
O	0.885009	1.486594	2.726155
C	-0.150389	2.110150	0.706860
C	1.394539	0.479164	3.685485
C	-0.150389	2.110150	-0.706861
C	0.411193	1.039574	-1.559737
O	0.448719	-0.176354	-1.308126
O	0.885010	1.486593	-2.726155
C	1.394540	0.479162	-3.685485
C	-0.708976	3.200334	1.382273
C	-1.291292	4.257148	0.694463
C	-1.291291	4.257148	-0.694466
C	-0.708975	3.200333	-1.382276
H	-0.689482	3.203512	-2.462491
H	-1.738014	5.075480	-1.244836
H	-1.738015	5.075481	1.244832
H	-0.689484	3.203513	2.462489
C	1.904155	1.218419	-4.906799
H	2.183666	-0.088512	-3.187286
H	0.573056	-0.200089	-3.920172
C	2.305884	0.186177	-5.965589
H	1.076813	1.818768	-5.305036
C	3.069326	2.146361	-4.562996
C	1.904157	1.218421	4.906798
H	0.573055	-0.200086	3.920173
H	2.183664	-0.088511	3.187285
C	2.305886	0.186180	5.965587
C	3.069328	2.146361	4.562992
H	1.076816	1.818771	5.305036
H	3.407461	2.684813	5.452083
H	3.918694	1.572494	4.177456
H	2.786659	2.882546	3.807809
H	2.652911	0.688239	6.871582
H	1.469133	-0.461796	6.240273
H	3.121130	-0.449002	5.605032
H	2.652906	0.688236	-6.871584
H	3.121129	-0.449003	-5.605034
H	1.469131	-0.461799	-6.240273
H	3.407457	2.684812	-5.452088
H	2.786657	2.882545	-3.807813
H	3.918693	1.572495	-4.177461

PBE1.ML04

Cl	-2.256767	-0.736661	-0.000001
Ti	-0.159366	-1.761295	0.000000
Cl	-0.601045	-3.106621	1.741639
Cl	-0.601043	-3.106621	-1.741639

Cl	2.129967	-2.133937	0.000001
O	0.368562	-0.188690	1.307265
C	0.346900	1.027157	1.560588
O	0.821182	1.464427	2.731509
C	-0.193526	2.107735	0.707025
C	1.315883	0.443576	3.687921
C	-0.193526	2.107735	-0.707025
C	0.346900	1.027157	-1.560588
O	0.368563	-0.188689	-1.307265
O	0.821182	1.464427	-2.731509
C	1.315883	0.443576	-3.687921
C	-0.731362	3.208406	1.382219
C	-1.294097	4.275801	0.694433
C	-1.294097	4.275802	-0.694434
C	-0.731362	3.208406	-1.382219
H	-0.710726	3.211639	-2.462361
H	-1.724924	5.102528	-1.244883
H	-1.724925	5.102528	1.244882
H	-0.710727	3.211639	2.462361
C	1.787071	1.183664	-4.911595
H	2.112253	-0.113233	-3.192942
H	0.494129	-0.243701	-3.893939
H	2.169482	0.464411	-5.639981
H	0.972418	1.739100	-5.379368
H	2.590582	1.880446	-4.667645
C	1.787072	1.183664	4.911595
H	0.494129	-0.243700	3.893940
H	2.112252	-0.113234	3.192942
H	2.169483	0.464411	5.639981
H	2.590584	1.880445	4.667643
H	0.972420	1.739101	5.379368

PBE1.ML05

Cl	-1.903178	-2.620079	-1.439344
Ti	0.010202	-2.403359	-0.253006
Cl	0.169637	-4.594193	0.146814
Cl	2.099323	-2.269568	-1.110067
Cl	-0.219837	-1.806213	1.891610
H	-0.397921	0.810867	1.365220
C	-0.439626	1.796753	0.920052
C	-0.335169	1.934114	-0.470047
C	-0.171152	0.734484	-1.290664
O	-0.117021	-0.422534	-0.803132
O	-0.082894	0.953929	-2.596083
C	0.085206	-0.179314	-3.538064
C	-0.595611	2.926125	1.713909
C	-0.647476	4.187007	1.130028
C	-0.543169	4.326363	-0.258330
C	-0.386981	3.200561	-1.061178
H	-0.306557	3.308584	-2.132652
C	-0.604100	5.690720	-0.827918
H	-0.768444	5.079313	1.731593
H	-0.676501	2.821332	2.788117
C	0.147986	0.414101	-4.920465
H	1.000440	-0.704249	-3.263391
H	-0.765416	-0.848253	-3.405345
H	0.272128	-0.390321	-5.649648
H	-0.769364	0.953179	-5.161851
H	0.993222	1.096765	-5.020180
O	-0.491943	5.704973	-2.180387

O	-0.741772	6.713619	-0.155426
C	-0.541071	7.016571	-2.836326
C	-0.396341	6.779122	-4.318642
H	-1.489929	7.492079	-2.580215
H	0.264514	7.632248	-2.431362
H	-0.427723	7.734507	-4.848648
H	0.553835	6.293287	-4.547717
H	-1.206070	6.152627	-4.697048

PBE1.ML06

Cl	-1.903946	-2.663852	-1.420799
Ti	0.011267	-2.459793	-0.234706
Cl	0.170117	-4.653526	0.145787
Cl	2.101424	-2.316922	-1.088334
Cl	-0.218624	-1.875036	1.910343
H	-0.396818	0.761235	1.397286
C	-0.438104	1.746254	0.951075
C	-0.333369	1.885400	-0.438042
C	-0.168835	0.685267	-1.261160
O	-0.115050	-0.471863	-0.776382
O	-0.079899	0.908350	-2.566414
C	0.088762	-0.223399	-3.510487
C	-0.593911	2.872862	1.743935
C	-0.645772	4.140224	1.158077
C	-0.541118	4.278848	-0.229629
C	-0.385451	3.155640	-1.026862
H	-0.303665	3.252601	-2.100501
H	-0.582678	5.264863	-0.670479
C	-0.813132	5.311957	2.050678
H	-0.676989	2.789373	2.819708
C	0.153412	0.371600	-4.892079
H	1.003394	-0.749128	-3.235353
H	-0.762324	-0.892072	-3.379465
H	0.277917	-0.432135	-5.621937
H	-0.763463	0.911130	-5.134392
H	0.999387	1.053577	-4.990558
O	-0.849196	6.488520	1.376204
O	-0.910101	5.237173	3.275923
C	-1.012244	7.707199	2.177563
C	-1.021561	8.872551	1.220414
H	-1.942697	7.622668	2.742537
H	-0.188084	7.759298	2.891788
H	-1.141553	9.804854	1.778130
H	-0.086512	8.928487	0.660181
H	-1.846604	8.791522	0.510454

PBE1.ML07

Cl	-2.114428	-0.883967	-0.289298
Ti	0.047160	-1.684462	0.029052
Cl	-0.444498	-3.010212	1.772170
Cl	-0.003389	-3.203303	-1.615584
Cl	2.355661	-1.710126	0.334933
O	0.200604	-0.019029	1.343151
C	0.667725	1.103430	1.592430
O	0.987695	1.461942	2.830682
C	0.927939	2.161298	0.569139
C	0.853229	0.437775	3.901069
C	0.025045	2.070734	-0.670779
C	0.450764	1.030932	-1.654513
O	0.544583	-0.184585	-1.408937

O	0.735304	1.505345	-2.864870
C	1.118678	0.529101	-3.916451
H	0.801702	3.132971	1.048346
H	0.007387	3.033055	-1.179050
C	1.346897	1.314420	-5.180485
H	2.011238	0.006354	-3.570608
H	0.307865	-0.195155	-4.003659
H	1.631325	0.629346	-5.982905
H	0.441891	1.840861	-5.487576
H	2.149111	2.043422	-5.054987
C	1.376111	1.058573	5.168652
H	-0.201166	0.165567	3.961657
H	1.419671	-0.439899	3.587620
H	1.292977	0.334576	5.982944
H	2.426198	1.337135	5.067957
H	0.803357	1.946204	5.442128
H	-0.999649	1.824351	-0.371914
H	1.986784	2.093139	0.292051

PBE1.ML08

Ti	0.051883	-1.619760	0.347471
Cl	-2.208908	-1.051973	0.488331
Cl	0.055223	-2.916922	2.169407
Cl	-0.258825	-3.169792	-1.255504
Cl	2.366200	-1.554014	0.095562
O	0.411397	0.082287	1.582199
C	0.310765	1.325701	1.549059
O	1.041657	2.070718	2.377649
C	-0.603873	2.077347	0.621675
C	1.963435	1.369257	3.305201
C	0.063686	2.342233	-0.756445
C	0.163313	1.077335	-1.560516
O	0.114609	-0.075511	-1.099370
O	0.303546	1.277376	-2.870511
C	0.425654	0.077107	-3.738684
H	-1.435683	1.386435	0.442263
C	1.422850	3.113093	-0.698731
C	0.603125	0.572770	-5.149307
H	1.274393	-0.506212	-3.379375
H	-0.478766	-0.517727	-3.606018
H	0.688705	-0.283768	-5.822443
H	-0.250686	1.172656	-5.468593
H	1.508620	1.173859	-5.248080
C	2.731798	2.431805	4.045920
H	1.355069	0.747202	3.963290
H	2.601006	0.714627	2.709596
H	3.418570	1.955138	4.749680
H	3.320009	3.044586	3.360662
H	2.063734	3.084170	4.610765
H	-0.638191	2.970508	-1.309584
C	-1.195254	3.342677	1.290305
C	1.541532	4.112517	-1.851928
H	1.395564	3.679122	0.238886
C	2.645381	2.191189	-0.660377
H	3.545595	2.775383	-0.454324
H	2.576986	1.407230	0.096299
H	2.794719	1.694578	-1.623928
H	2.476764	4.673227	-1.772495
H	1.536011	3.600236	-2.816936
H	0.718429	4.833189	-1.845312

C	-2.103762	4.123668	0.335603
C	-1.996110	2.934870	2.534014
H	-0.374237	3.993731	1.607197
H	-2.627791	4.908166	0.887060
H	-1.555722	4.614977	-0.471795
H	-2.863697	3.472479	-0.109190
H	-2.400215	3.819668	3.031860
H	-2.835835	2.289806	2.258190
H	-1.386078	2.399172	3.264484

PBE1.ML09

Cl	0.455322	1.553782	-2.266508
Ti	-0.000263	1.855258	-0.000376
Cl	1.688715	3.296692	0.341085
Cl	-1.689690	3.296080	-0.342197
Cl	-0.455753	1.554205	2.265830
O	1.325688	0.224664	0.232586
C	1.574669	-0.994290	0.253452
O	2.821753	-1.426139	0.064399
C	0.581902	-2.091377	0.513421
C	3.874280	-0.405048	-0.171679
C	-0.581202	-2.091685	-0.513199
C	-1.574309	-0.994843	-0.253502
O	-1.325706	0.224193	-0.232932
O	-2.821260	-1.427033	-0.064349
C	-3.874105	-0.406213	0.171475
H	1.123532	-3.029435	0.374877
H	-1.122540	-3.029877	-0.374424
C	-5.164764	-1.150476	0.389823
H	-3.570245	0.187957	1.034147
H	-3.901051	0.247123	-0.701735
H	-5.969183	-0.431860	0.564700
H	-5.428204	-1.751486	-0.482076
H	-5.100839	-1.806901	1.259249
C	5.165172	-1.148961	-0.389843
H	3.570233	0.188812	-1.034499
H	3.901021	0.248513	0.701368
H	5.969364	-0.430137	-0.564900
H	5.428800	-1.749670	0.482206
H	5.101451	-1.805623	-1.259105
C	-0.109204	-2.049233	-1.995454
C	0.109894	-2.048703	1.995666
C	-0.761768	-3.264891	2.318066
C	1.306996	-1.982005	2.947686
H	-0.475676	-1.134085	2.141103
C	-1.306324	-1.983150	-2.947493
H	0.476079	-1.134468	-2.141117
C	0.762841	-3.265228	-2.317547
H	0.961256	-2.002353	3.983534
H	1.981014	-2.832039	2.798851
H	1.879491	-1.059331	2.821687
H	-1.044516	-3.244405	3.373493
H	-1.684913	-3.290920	1.735508
H	-0.215126	-4.197587	2.140490
H	-0.960575	-2.003643	-3.983336
H	-1.980072	-2.833361	-2.798450
H	-1.879112	-1.060627	-2.821722
H	1.045583	-3.244920	-3.372979
H	1.685995	-3.290820	-1.734983
H	0.216494	-4.198052	-2.139735

PBE1.ML10

Ti	0.030260	0.115499	1.038466
Cl	2.230432	-0.168255	0.717474
Cl	-1.421935	-0.798138	-0.426752
Cl	-0.175347	-1.527831	2.538044
Cl	-0.680903	1.736341	2.411511
O	0.194250	1.652322	-0.442873
C	-0.758901	2.778786	-0.613638
C	-0.312684	3.461579	-1.893584
C	0.219064	2.298009	-2.736386
C	0.934201	1.429432	-1.715991
H	-1.759452	2.348222	-0.694705
H	-0.688954	3.391482	0.279926
H	0.481891	4.182872	-1.686678
H	-1.136554	3.988943	-2.376066
H	0.893010	2.623110	-3.530022
H	-0.608164	1.748380	-3.191872
H	0.896258	0.364986	-1.938138
H	1.964818	1.732570	-1.534019

PBE1.ML10-cis

Ti	0.000001	0.000000	0.875250
Cl	2.316411	-0.003746	0.628408
Cl	-2.316410	0.003746	0.628411
Cl	0.003368	-1.711325	2.358578
Cl	-0.003365	1.711326	2.358577
O	-0.024626	1.407513	-0.738536
O	0.024625	-1.407513	-0.738536
C	-0.971965	2.552064	-0.812227
C	-0.340409	3.505794	-1.811869
C	0.417865	2.566122	-2.756200
C	0.997778	1.538137	-1.801556
C	0.971964	-2.552065	-0.812227
C	0.340407	-3.505794	-1.811869
C	-0.417865	-2.566121	-2.756200
C	-0.997778	-1.538136	-1.801556
H	-1.928253	2.150337	-1.146117
H	-1.074463	2.947166	0.195485
H	0.355761	4.183043	-1.310925
H	-1.092558	4.106435	-2.325101
H	1.198825	3.074939	-3.323036
H	-0.270676	2.098460	-3.465868
H	1.152280	0.547440	-2.223226
H	1.920315	1.873989	-1.329345
H	1.928252	-2.150340	-1.146116
H	1.074461	-2.947168	0.195485
H	1.092556	-4.106437	-2.325101
H	-0.355764	-4.183042	-1.310925
H	0.270676	-2.098460	-3.465867
H	-1.198825	-3.074937	-3.323037
H	-1.152279	-0.547439	-2.223227
H	-1.920315	-1.873987	-1.329346

PBE1.ML11

Ti	-1.166654	-1.972503	0.204662
Cl	-3.274750	-1.280475	0.825008
Cl	-1.045478	-3.697630	1.631349
Cl	-1.843927	-2.992741	-1.678504
Cl	1.107616	-2.037228	-0.373024

O	-0.492775	-0.608123	1.724822
C	-0.785603	0.789108	1.435108
O	-1.040106	0.003437	-0.782045
C	-0.391852	1.040086	0.002809
H	-1.855887	0.920854	1.585055
H	-0.225629	1.429629	2.118438
H	-0.747411	2.017456	-0.334809
H	0.689984	0.962845	-0.143092
C	-0.841550	0.167828	-2.216952
H	-1.125629	1.184817	-2.493040
H	0.202632	-0.031193	-2.466325
H	-1.487927	-0.551351	-2.707316
C	0.598864	-0.851720	2.658756
H	1.539391	-0.499776	2.232380
H	0.369625	-0.344795	3.597005
H	0.641464	-1.925200	2.810555

PBE1.ML12

Ti	-1.062026	-1.899286	0.165703
Cl	-2.406906	-0.007764	0.346551
Cl	-1.621395	-2.689381	2.201543
Cl	-2.559095	-3.044998	-1.070210
Cl	0.654908	-3.437524	-0.158582
O	0.484702	-0.672208	1.052226
C	0.717916	0.731730	0.702301
O	-0.283921	-0.963199	-1.623182
C	1.107874	0.858008	-0.757234
H	-0.198341	1.276695	0.930752
H	1.522686	1.097371	1.343032
H	1.361601	1.908303	-0.944331
H	2.008268	0.267551	-0.951757
C	-0.119176	-1.697408	-2.873915
H	0.890314	-1.529738	-3.253148
H	-0.258425	-2.749334	-2.654393
H	-0.870242	-1.356774	-3.588408
C	1.318253	-1.149616	2.151219
C	0.017413	0.466700	-1.734976
H	0.342894	0.651389	-2.760560
H	-0.911790	1.006442	-1.550776
H	1.030848	-0.631532	3.067534
H	1.145716	-2.214685	2.251265
H	2.366000	-0.966333	1.906976

PBE1.ML13

Ti	-0.652986	-2.181032	0.037663
Cl	-2.574361	-1.055951	0.711812
Cl	-0.451168	-3.401183	1.925865
Cl	-1.765767	-3.746810	-1.147857
Cl	1.450201	-2.746799	-0.779409
O	0.382654	-0.540184	1.020174
C	1.528559	0.224813	0.500331
O	-0.720318	-0.861303	-1.689907
C	1.175788	0.964266	-0.786938
H	1.791831	0.936793	1.285516
H	2.351938	-0.474577	0.359647
H	1.849223	1.823707	-0.858800
H	1.394165	0.324190	-1.643177
C	-0.566591	-1.422241	-3.032532
H	0.087446	-0.769460	-3.613256
H	-0.114502	-2.401374	-2.932234

H	-1.548942	-1.505155	-3.499562
C	0.130651	-0.272417	2.436343
C	-0.291352	1.423926	-0.825694
H	-0.363934	2.444682	-1.213227
H	-0.709890	1.441395	0.181617
H	0.046855	0.806120	2.580765
H	-0.802825	-0.753033	2.702505
H	0.949809	-0.682501	3.028583
C	-1.159969	0.543952	-1.718396
H	-2.208119	0.565944	-1.421687
H	-1.073964	0.861477	-2.759901

PBE1.ML14

Ti	-1.224288	-1.643317	0.433528
Cl	-1.749504	0.615585	0.683130
Cl	-1.582050	-2.141423	2.604267
Cl	-3.281820	-2.143888	-0.351417
Cl	-0.332860	-3.720543	-0.110859
O	0.791496	-1.078693	0.893945
C	1.432210	0.150289	0.410550
O	-0.493984	-1.085919	-1.547215
C	1.635204	0.128276	-1.108027
H	0.791437	0.974879	0.717765
H	2.390985	0.236205	0.922841
C	2.363813	1.445503	-1.492036
C	2.489317	-1.117166	-1.512627
C	-1.202642	-1.612752	-2.712261
H	-0.541980	-1.566301	-3.578050
H	-1.453099	-2.645322	-2.491711
H	-2.108540	-1.031251	-2.885792
C	1.570360	-1.804607	1.894552
C	0.277578	0.134059	-1.815287
H	0.422339	0.196482	-2.895059
H	-0.332898	0.974984	-1.488017
H	1.552616	-1.248881	2.833059
H	1.106679	-2.776006	2.023457
H	2.589622	-1.926942	1.528022
H	2.747248	1.332664	-2.510350
C	1.557432	2.748553	-1.400771
H	3.247101	1.539276	-0.849018
C	2.433388	4.011726	-1.448502
H	0.831489	2.807179	-2.221794
H	0.971700	2.775610	-0.474983
C	1.572628	5.260012	-1.240182
H	3.150351	3.949724	-0.616709
C	3.226564	4.117491	-2.754029
H	2.187662	6.163952	-1.219652
H	0.846625	5.370051	-2.052994
H	1.016128	5.209623	-0.299923
H	3.809834	5.042121	-2.779617
H	3.924379	3.286284	-2.884120
H	2.549596	4.128690	-3.615773
C	2.527507	-1.383838	-3.022023
C	3.934654	-1.045855	-0.997824
H	1.999731	-1.980344	-1.049318
H	3.212795	-2.210238	-3.228057
H	1.555899	-1.675921	-3.421294
H	2.887455	-0.518789	-3.588105
H	4.415584	-2.019657	-1.122030
H	4.524837	-0.317936	-1.562025

H	4.010893	-0.782113	0.059963

PBE1.ML15			
Ti	-0.923611	-2.101546	0.276890
Cl	-2.304094	-0.231926	0.448022
Cl	-1.230328	-2.686826	2.431410
Cl	-2.522385	-3.353562	-0.700299
Cl	0.743950	-3.696113	-0.071125
O	0.701667	-0.784803	0.825324
C	0.792781	0.613261	0.397366
O	-0.315718	-1.311205	-1.642583
C	0.984964	0.739440	-1.116527
H	-0.121491	1.109295	0.720820
H	1.650200	1.060321	0.902101
C	1.041594	2.226541	-1.456970
C	2.355469	0.260687	-1.579105
C	-0.322583	-2.141736	-2.846754
H	0.562326	-1.903516	-3.437752
H	-0.287132	-3.176029	-2.523649
H	-1.238020	-1.950704	-3.408449
C	1.634774	-1.129243	1.898040
C	-0.162126	0.119112	-1.919072
H	0.048419	0.231386	-2.983434
H	-1.111907	0.596844	-1.681787
H	1.329858	-0.622124	2.814487
H	1.590688	-2.204522	2.029374
H	2.638427	-0.830005	1.594381
C	2.280373	2.551073	-2.036457
C	2.548776	3.860051	-2.425993
C	1.570492	4.834748	-2.230627
C	0.341684	4.509126	-1.654969
C	0.067859	3.196012	-1.262362
H	3.499717	4.124291	-2.874045
H	1.766600	5.857730	-2.529367
H	-0.406327	5.279398	-1.510855
H	-0.890104	2.951849	-0.815549
C	2.901058	-1.015337	-1.531660
C	4.195748	-1.210395	-2.023263
C	4.927717	-0.146591	-2.551580
C	4.381801	1.135586	-2.600200
C	3.093977	1.335497	-2.112461
H	2.342319	-1.848540	-1.123900
H	4.633007	-2.201511	-1.991973
H	5.929514	-0.317929	-2.927601
H	4.955627	1.958035	-3.011921

B3LYP.M			
Ti	-0.000006	0.000034	-0.000066
Cl	1.730406	-1.128606	0.777907
Cl	-1.301878	-1.355208	-1.158414
Cl	0.712264	1.631130	-1.306057
Cl	-1.140796	0.852656	1.686650

B3LYP.L01			
O	1.247069	1.358606	0.000000
C	1.073308	0.137970	0.000000
O	-0.175252	-0.436491	0.000000
C	2.156694	-0.900243	0.000000
C	-1.344421	0.473542	0.000001
C	-2.585357	-0.397673	0.000000

H	-1.281926	1.109999	0.883171
H	-1.281925	1.110001	-0.883168
H	-3.478646	0.231837	0.000001
H	-2.615343	-1.035210	-0.884507
H	-2.615343	-1.035213	0.884504
H	3.125827	-0.409006	-0.000015
H	2.067999	-1.540164	0.879467
H	2.067981	-1.540185	-0.879449

B3LYP.L02

O	-1.456951	0.159660	1.069866
C	-0.327221	0.127838	1.574644
O	-0.131759	0.162327	2.933555
C	0.938161	0.050206	0.806298
C	-1.336951	0.240064	3.787084
C	0.860090	0.009206	-0.593760
H	-0.113894	0.035512	-1.062344
C	2.191692	0.017175	1.434948
C	3.353263	-0.056186	0.666987
C	3.271674	-0.096903	-0.727660
C	2.023453	-0.064093	-1.356634
H	1.958886	-0.095559	-2.436491
H	4.175420	-0.153868	-1.321075
H	4.319402	-0.081551	1.154222
H	2.246626	0.048940	2.512904
C	-0.861663	0.265868	5.226875
H	-1.891382	1.138761	3.515300
H	-1.965408	-0.624476	3.571352
H	-1.722436	0.323405	5.897652
H	-0.298617	-0.636312	5.469529
H	-0.224293	1.131224	5.413291

B3LYP.L03

O	-0.912713	1.086611	0.373962
C	-0.052368	0.320651	0.818804
O	-0.303283	-0.553985	1.845476
C	1.363804	0.278571	0.367152
C	-1.666017	-0.543679	2.419691
C	1.717134	0.668448	-0.939833
C	0.721612	0.955056	-2.014083
O	0.763591	1.945710	-2.747807
O	-0.188634	-0.052434	-2.157653
C	-1.297314	0.170050	-3.110189
C	2.374400	-0.040172	1.284188
C	3.717659	0.050948	0.923120
C	4.065719	0.470175	-0.361495
C	3.067669	0.778695	-1.285117
H	3.324193	1.100954	-2.285016
H	5.106547	0.554600	-0.645136
H	4.486561	-0.192810	1.644405
H	2.096812	-0.340212	2.283497
C	-2.167855	-1.083450	-3.120193
H	-1.850371	1.047530	-2.773038
H	-0.873504	0.378755	-4.094489
C	-3.423187	-0.821430	-3.975320
C	-1.393436	-2.313850	-3.622352
H	-2.485889	-1.267524	-2.088470
C	-1.724831	-1.597878	3.522350
H	-1.871313	0.458250	2.803030
H	-2.373384	-0.756398	1.617498

C	-3.178041	-1.727967	4.019843
H	-1.425410	-2.553166	3.077830
C	-0.765199	-1.273688	4.679743
H	-2.022063	-3.207148	-3.587289
H	-1.071455	-2.172412	-4.659204
H	-0.507067	-2.496488	-3.013927
H	-4.077879	-1.695610	-3.970552
H	-3.997058	0.029070	-3.598665
H	-3.154742	-0.614182	-5.015746
H	-0.804035	-2.054155	5.443409
H	0.264318	-1.193798	4.329251
H	-1.037299	-0.326263	5.155930
H	-3.250533	-2.500622	4.788018
H	-3.529658	-0.789630	4.459339
H	-3.859658	-1.997555	3.209078

B3LYP.L04

O	-1.162364	0.994539	0.465073
C	-0.299538	0.237246	0.920246
O	-0.526568	-0.570461	2.005874
C	1.096540	0.137750	0.418981
C	-1.862815	-0.488687	2.637924
C	1.408661	0.460823	-0.916330
C	0.380032	0.730384	-1.963503
O	0.413227	1.694248	-2.732629
O	-0.552975	-0.263901	-2.040354
C	-1.685931	-0.052439	-2.969928
C	2.133153	-0.170274	1.310530
C	3.463127	-0.132795	0.895011
C	3.771759	0.221042	-0.419049
C	2.747080	0.517809	-1.316993
H	2.973308	0.789228	-2.339058
H	4.802611	0.263634	-0.745314
H	4.252903	-0.367545	1.596447
H	1.885964	-0.420437	2.331415
C	-2.569509	-1.281032	-2.879850
H	-2.202050	0.856569	-2.660200
H	-1.284020	0.100757	-3.971598
H	-3.422736	-1.171335	-3.553878
H	-2.020729	-2.179776	-3.164840
H	-2.948304	-1.414231	-1.865997
C	-1.861090	-1.453139	3.807862
H	-2.031852	0.543425	2.946624
H	-2.610111	-0.746217	1.887188
H	-2.834841	-1.432496	4.303279
H	-1.668185	-2.473038	3.473104
H	-1.099693	-1.180760	4.539961

B3LYP.L05

O	1.199940	0.161574	0.995430
C	0.766624	1.210988	1.484107
O	0.812012	1.469363	2.831571
C	0.151019	2.314046	0.704727
C	1.409277	0.428888	3.698170
C	0.048646	2.166185	-0.682162
H	0.413146	1.266163	-1.156414
C	-0.322978	3.483546	1.317940
C	-0.893730	4.493129	0.543935
C	-0.996514	4.347254	-0.838909
C	-0.524051	3.179745	-1.457087

C	-0.610294	2.976481	-2.924873
H	-1.437687	5.126211	-1.442679
H	-1.258655	5.394261	1.018751
H	-0.241018	3.591795	2.389158
C	1.342355	0.943633	5.122776
H	0.845240	-0.494042	3.561201
H	2.432744	0.254237	3.365417
H	1.774607	0.204180	5.801310
H	1.901658	1.873959	5.229988
H	0.310238	1.123782	5.426257
O	-1.189635	4.035909	-3.577890
O	-0.210296	1.969578	-3.519841
C	-1.322494	3.931083	-5.048151
C	-1.984603	5.208081	-5.527566
H	-0.327294	3.792902	-5.471464
H	-1.914343	3.043905	-5.274703
H	-2.103621	5.175024	-6.613284
H	-2.971456	5.329991	-5.079149
H	-1.380496	6.080890	-5.276413

B3LYP.L06

O	1.094179	0.221289	0.863432
C	0.696057	1.242837	1.436633
O	0.829151	1.427830	2.788106
C	0.033869	2.384471	0.756096
C	1.478477	0.344093	3.559609
C	-0.157408	2.306546	-0.630820
H	0.180915	1.424240	-1.155641
C	-0.397937	3.520835	1.455832
C	-1.013277	4.564811	0.773390
C	-1.204555	4.486886	-0.613525
C	-0.772748	3.350522	-1.313262
H	-0.921570	3.293735	-2.380943
C	-1.866742	5.628520	-1.294063
H	-1.351600	5.447118	1.298211
H	-0.249115	3.577623	2.523514
C	1.501325	0.783064	5.010597
H	0.905637	-0.571346	3.409391
H	2.478849	0.189865	3.154336
H	1.974639	0.009966	5.620779
H	2.066857	1.707861	5.131375
H	0.490453	0.944527	5.387072
O	-1.999836	5.443528	-2.645536
O	-2.264864	6.650069	-0.720862
C	-2.649161	6.527265	-3.417038
C	-2.672010	6.088293	-4.868027
H	-3.649533	6.681493	-3.011766
H	-2.076320	7.442704	-3.266821
H	-3.145323	6.861392	-5.478209
H	-1.661138	5.926830	-5.244502
H	-3.237542	5.163497	-4.988804

B3LYP.L07

C	-5.377384	0.643779	0.338980
C	-4.315528	-0.345973	-0.098455
O	-3.002732	0.317485	0.084809
C	-1.881193	-0.394202	-0.251413
O	-1.924363	-1.555558	-0.667568
O	1.924238	1.554183	-0.671105
C	1.881146	0.393679	-0.252575

C	0.633000	-0.429346	-0.068244
C	-0.633011	0.429192	-0.068986
H	-0.585697	1.162876	-0.879122
O	3.002748	-0.317317	0.084898
C	4.315509	0.345772	-0.099955
C	5.377447	-0.643072	0.339330
H	0.585527	-1.164660	-0.876892
H	0.724694	-1.010835	0.850363
H	-0.724526	1.012530	0.848466
H	-4.412553	-0.624944	-1.148091
H	-4.322847	-1.258015	0.498884
H	4.412351	0.622587	-1.150178
H	4.322924	1.259040	0.495508
H	-6.368124	0.198397	0.219635
H	-5.248623	0.917829	1.386794
H	-5.335406	1.552954	-0.261958
H	6.368163	-0.197930	0.218898
H	5.248870	-0.914969	1.387727
H	5.335371	-1.553481	-0.259731

B3LYP.L08

C	0.769433	0.868344	-2.724040
C	-0.520525	1.635243	-2.506587
O	-0.151149	2.962730	-1.958623
C	-1.174567	3.832011	-1.684400
O	-2.355931	3.537896	-1.893970
C	-0.737911	5.170446	-1.106335
C	-1.100629	5.279461	0.427891
C	-2.597431	5.076437	0.625221
O	-3.145763	4.196730	1.290509
C	0.718708	5.584166	-1.458510
C	0.882753	5.708144	-2.989316
C	1.115664	6.923973	-0.804820
C	-0.209725	4.488430	1.429320
C	-0.323065	2.950744	1.383497
C	-0.444339	5.002282	2.867144
O	-3.307318	6.056449	-0.024907
C	-4.781920	5.931274	-0.031104
C	-5.323476	7.081133	-0.858308
H	1.311279	0.738445	-1.786400
H	1.420653	1.386963	-3.428889
H	0.544822	-0.121286	-3.129318
H	-1.183528	1.146323	-1.792475
H	-1.075438	1.791829	-3.431844
H	-1.404272	5.890540	-1.589505
H	-0.945230	6.337965	0.652974
H	1.401339	4.806913	-1.106897
H	1.911895	5.976584	-3.239888
H	0.650094	4.775612	-3.502221
H	0.229403	6.492432	-3.384458
H	2.102896	7.230534	-1.158275
H	0.409562	7.716428	-1.072272
H	1.164885	6.867906	0.283394
H	0.821963	4.744130	1.164644
H	0.341678	2.518984	2.136965
H	-1.338914	2.624759	1.599776
H	-0.020208	2.549567	0.417539
H	0.283375	4.557470	3.550204
H	-0.335418	6.089314	2.927895
H	-1.441481	4.736704	3.221342

H	-5.031658	4.958771	-0.455117
H	-5.132963	5.958946	1.000870
H	-5.035994	8.042563	-0.429935
H	-4.950782	7.033213	-1.882193
H	-6.414849	7.031750	-0.888415

B3LYP.L09

C	-1.488048	0.678004	0.805556
H	-1.823842	1.348721	1.595840
H	-0.458483	0.388986	1.014803
H	-2.117244	-0.216152	0.825544
C	-1.597852	1.341944	-0.558958
H	-1.303892	0.671860	-1.363679
H	-2.600847	1.724898	-0.743947
O	-0.641006	2.469201	-0.691216
C	-1.001631	3.688547	-0.186920
C	0.092316	4.730907	-0.339026
O	-2.103060	3.902604	0.330170
C	0.681500	4.768419	-1.782100
H	-0.408608	5.686141	-0.179575
C	1.151996	4.612517	0.821083
H	1.878737	5.405540	0.639297
C	0.565627	4.832732	2.249421
C	1.910704	3.296809	0.766222
C	1.723861	5.891445	-1.945947
H	1.166690	3.811795	-1.982899
C	-0.453898	4.960268	-2.809605
H	-0.047844	4.977541	-3.823719
H	-1.190651	4.156567	-2.763451
H	-0.975594	5.907876	-2.643479
H	2.027649	5.966812	-2.993003
H	1.306851	6.861340	-1.654807
H	2.622610	5.708121	-1.358368
O	3.017067	3.379652	-0.047623
O	1.615847	2.271353	1.383271
C	3.857157	2.167561	-0.205886
C	3.352888	1.297454	-1.347499
H	4.848077	2.569016	-0.405395
H	3.859582	1.628132	0.740010
H	4.012918	0.434736	-1.471273
H	2.346627	0.931619	-1.143866
H	3.339505	1.853977	-2.285791
C	1.708777	4.902975	3.284224
C	-0.297999	6.105556	2.344266
H	-0.059277	3.970108	2.494535
H	1.300361	5.021316	4.290371
H	2.320256	3.999857	3.283113
H	2.359139	5.761471	3.086905
H	-0.566382	6.290086	3.387158
H	0.249933	6.984192	1.986853
H	-1.226372	6.018769	1.781055

B3LYP.L10

O	0.000000	-1.279549	-0.000099
C	1.196723	-0.427310	0.131178
C	0.738715	0.993894	-0.225067
C	-0.738713	0.993862	0.225209
C	-1.196724	-0.427291	-0.131238
H	1.556770	-0.487913	1.162192
H	1.962048	-0.822095	-0.536125

H	0.805438	1.158926	-1.303192
H	1.330989	1.761772	0.274237
H	-1.330988	1.761812	-0.273984
H	-0.805437	1.158741	1.303358
H	-1.962043	-0.822173	0.536015
H	-1.556781	-0.487744	-1.162258

B3LYP.L11

C	0.052749	-0.091340	0.090434
H	-0.000966	0.001521	1.172196
H	1.102855	-0.124434	-0.221084
H	-0.443652	-1.017251	-0.221239
O	-0.618571	1.071589	-0.454390
C	-0.636143	1.101859	-1.906541
C	-1.367326	2.368251	-2.310125
H	0.385175	1.112793	-2.302933
H	-1.156311	0.222806	-2.302806
O	-1.384898	2.398521	-3.762276
H	-2.388644	2.357317	-1.913734
H	-0.847158	3.247304	-1.913860
C	-2.056218	3.561450	-4.307100
H	-2.002503	3.468589	-5.388862
H	-3.106324	3.594544	-3.995582
H	-1.559817	4.487362	-3.995427

B3LYP.L12

C	0.019855	-0.034595	0.230442
H	-0.075835	0.130982	1.300586
H	1.081893	-0.088150	-0.035913
H	-0.464659	-0.981157	-0.036031
O	-0.628233	1.087903	-0.417453
C	-0.588201	1.018858	-1.868697
C	-1.299596	2.251286	-2.411901
H	0.457440	0.986085	-2.205769
H	-1.082682	0.097009	-2.205968
C	-1.318510	2.283993	-3.934599
H	-2.325035	2.268328	-2.038977
H	-0.801508	3.147787	-2.038969
O	-2.016064	3.491899	-4.343092
H	-0.297682	2.294261	-4.341881
H	-1.837666	1.404947	-4.341812
C	-2.105563	3.646689	-5.781083
H	-2.641964	4.575633	-5.957488
H	-1.110471	3.708968	-6.236765
H	-2.657025	2.815964	-6.236627

B3LYP.L13

C	0.077903	-0.135025	0.187630
H	0.013189	-0.023177	1.267143
H	1.131794	-0.175020	-0.111383
H	-0.414604	-1.067542	-0.111615
O	-0.587208	1.017492	-0.385730
C	-0.589155	1.020794	-1.840411
C	-1.313697	2.275537	-2.307999
H	0.445273	1.007537	-2.210248
H	-1.094816	0.118253	-2.210168
C	-1.373309	2.378494	-3.842001
H	-2.323941	2.267264	-1.888453
H	-0.801422	3.146383	-1.888616
C	-2.097850	3.633236	-4.309589

H	-0.363064	2.386766	-4.261547
H	-1.885584	1.507647	-4.261384
O	-2.099797	3.636538	-5.764269
H	-3.132278	3.646493	-3.939751
H	-1.592189	4.535777	-3.939832
C	-2.764909	4.789055	-6.337630
H	-2.700195	4.677208	-7.417143
H	-3.818799	4.829050	-6.038617
H	-2.272401	5.721572	-6.038385

B3LYP.L14

C	0.492830	-0.003947	0.024852
H	0.820272	0.256683	1.028439
H	1.365130	-0.254209	-0.590484
H	-0.171517	-0.874684	0.072415
O	-0.199349	1.156152	-0.497310
C	-0.685526	0.961578	-1.853535
C	-1.416831	2.223446	-2.367808
H	0.172269	0.729191	-2.499734
H	-1.355068	0.093129	-1.874229
C	-1.404089	2.095866	-3.907443
C	-2.906940	2.306429	-1.854704
C	-0.664519	3.521667	-1.945718
O	-2.146859	3.197018	-4.494663
H	-0.373367	2.117964	-4.278609
H	-1.849541	1.145118	-4.226166
C	-2.159430	3.170307	-5.942942
H	-2.733333	4.036454	-6.263417
H	-1.143299	3.235004	-6.348759
H	-2.636410	2.257239	-6.318010
H	-3.272008	3.272194	-2.215260
C	-3.840261	1.231215	-2.452008
C	-3.043813	2.296276	-0.317041
H	-4.084597	2.493131	-0.044221
H	-2.761635	1.330335	0.105796
H	-2.425960	3.053638	0.163784
H	-4.843185	1.344667	-2.032415
H	-3.931675	1.321394	-3.534802
H	-3.508079	0.215661	-2.215536
H	-1.261847	4.363063	-2.301637
H	-0.649852	3.565134	-0.856986
C	0.784555	3.672612	-2.444735
C	1.557515	4.833193	-1.772644
H	1.338334	2.748307	-2.251778
H	0.802771	3.835186	-3.528909
C	3.039117	4.809436	-2.194419
C	0.933298	6.208598	-2.076829
H	1.513484	4.671891	-0.687733
H	3.606420	5.597602	-1.691885
H	3.505778	3.851288	-1.949668
H	3.138565	4.964682	-3.273833
H	1.509613	7.010091	-1.606500
H	0.919473	6.395870	-3.155691
H	-0.092990	6.281058	-1.712585

B3LYP.L15

C	-0.531365	-0.000097	0.000030
C	-1.410231	0.174169	1.253878
C	0.438178	-1.170447	0.202191
C	0.437591	1.170731	-0.202175

O	-2.301875	1.305143	1.053816
H	-2.002863	-0.730222	1.416156
H	-0.774972	0.352798	2.128577
C	-3.199373	1.525003	2.169498
H	-3.817718	2.380103	1.906723
H	-3.837613	0.650626	2.338532
H	-2.642002	1.746054	3.086670
C	1.774956	-0.723103	0.128457
C	2.832447	-1.619711	0.289910
C	2.545971	-2.967457	0.526855
C	1.220877	-3.411002	0.597877
C	0.156756	-2.513200	0.434814
H	3.860584	-1.283489	0.234305
H	3.356553	-3.674049	0.654675
H	1.014796	-4.458764	0.777458
H	-0.865956	-2.860681	0.469879
C	1.774594	0.724047	-0.128502
C	2.831635	1.621177	-0.290005
C	2.544482	2.968781	-0.526939
C	1.219167	3.411672	-0.597901
C	0.155496	2.513345	-0.434787
H	3.859940	1.285462	-0.234447
H	3.354710	3.675772	-0.654798
H	1.012560	4.459332	-0.777475
H	-0.867389	2.860322	-0.469806
C	-1.410202	-0.174797	-1.253778
O	-2.301280	-1.306208	-1.053673
H	-2.003284	0.729302	-1.416033
H	-0.774894	-0.353117	-2.128505
C	-3.198717	-1.526517	-2.169317
H	-3.816630	-2.381920	-1.906511
H	-2.641276	-1.747298	-3.086511
H	-3.837396	-0.652455	-2.338328

B3LYP.ML01

Ti	0.086526	0.043831	1.386767
Cl	1.146039	1.515498	2.760314
Cl	1.327864	-1.488990	0.296042
Cl	-2.012891	0.476492	0.625105
Cl	-0.588475	-1.315992	3.047236
O	0.686046	1.383126	-0.150967
C	0.651380	2.532119	-0.659296
O	1.326330	2.795843	-1.779962
C	-0.112535	3.677282	-0.093384
C	2.126871	1.699595	-2.422482
C	2.768101	2.295573	-3.656076
H	2.852181	1.353689	-1.687808
H	1.440240	0.885253	-2.647976
H	3.363206	1.528646	-4.156930
H	2.015266	2.655274	-4.357745
H	3.427798	3.123938	-3.397045
H	-1.168985	3.408611	-0.028785
H	0.232379	3.872385	0.924181
H	0.009425	4.565447	-0.704928

B3LYP.ML01-cis

Ti	0.000000	0.000001	1.245528
Cl	0.633700	1.595231	2.751181
Cl	2.176859	-0.839744	0.919116
Cl	-2.176860	0.839745	0.919115

Cl	-0.633700	-1.595228	2.751182
O	0.531986	1.294226	-0.357681
C	0.590194	2.477525	-0.770052
O	1.307330	2.773718	-1.864591
C	-0.082581	3.639501	-0.131204
C	2.082289	1.682864	-2.536009
C	2.983383	2.350558	-3.552670
H	2.630129	1.141932	-1.766537
H	1.359534	1.007037	-2.992394
H	3.564164	1.587951	-4.076762
H	2.404622	2.907963	-4.289793
H	3.680127	3.034919	-3.068235
H	-1.139519	3.411418	0.012856
H	0.340109	3.793298	0.864435
H	0.042964	4.535743	-0.730366
O	-0.531986	-1.294226	-0.357680
C	-0.590194	-2.477525	-0.770050
O	-1.307330	-2.773719	-1.864590
C	-2.082289	-1.682864	-2.536008
C	-2.983383	-2.350559	-3.552669
H	-2.630129	-1.141932	-1.766536
H	-1.359533	-1.007038	-2.992394
H	-3.564163	-1.587952	-4.076761
H	-2.404622	-2.907965	-4.289791
H	-3.680127	-3.034920	-3.068233
C	0.082581	-3.639500	-0.131202
H	1.139518	-3.411417	0.012858
H	-0.340110	-3.793297	0.864437
H	-0.042964	-4.535743	-0.730363

B3LYP.ML02

Cl	-1.929987	-2.705995	-1.343121
Ti	0.000508	-2.464048	-0.147498
Cl	0.140701	-4.664776	0.325050
Cl	2.109813	-2.378931	-1.018474
Cl	-0.225909	-1.792564	1.996403
H	-0.393451	0.838076	1.369723
C	-0.432876	1.804539	0.889113
C	-0.325796	1.892780	-0.509232
C	-0.161645	0.663081	-1.292469
O	-0.109739	-0.486209	-0.771602
O	-0.069237	0.843009	-2.614673
C	0.101038	-0.322962	-3.541667
C	-0.588992	2.963002	1.645188
C	-0.639029	4.209730	1.015502
C	-0.532672	4.300449	-0.376571
C	-0.376481	3.148744	-1.140928
H	-0.293746	3.210932	-2.215575
H	-0.571690	5.266586	-0.861520
H	-0.760465	5.108367	1.606341
H	-0.671267	2.893213	2.721330
C	0.170760	0.246659	-4.941771
H	1.013122	-0.840363	-3.251111
H	-0.752454	-0.982207	-3.396726
H	0.295240	-0.572020	-5.654172
H	-0.743734	0.782952	-5.196366
H	1.017825	0.924348	-5.051080

B3LYP.ML03

Ti	-0.076373	-1.795684	0.000000
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Cl	-2.233854	-0.848223	0.000000
Cl	-0.462398	-3.173487	1.755377
Cl	-0.462398	-3.173488	-1.755376
Cl	2.254162	-2.071844	0.000001
O	0.396380	-0.184064	1.318081
C	0.379464	1.037132	1.566471
O	0.871674	1.486543	2.735175
C	-0.177490	2.117159	0.709699
C	1.386211	0.474187	3.713789
C	-0.177489	2.117159	-0.709700
C	0.379465	1.037132	-1.566472
O	0.396380	-0.184064	-1.318081
O	0.871674	1.486542	-2.735176
C	1.386211	0.474186	-3.713789
C	-0.732527	3.214520	1.385777
C	-1.309999	4.276966	0.696162
C	-1.309999	4.276965	-0.696165
C	-0.732526	3.214519	-1.385779
H	-0.714130	3.219861	-2.464294
H	-1.751519	5.097041	-1.245843
H	-1.751519	5.097042	1.245840
H	-0.714131	3.219862	2.464292
C	1.924848	1.229806	-4.922408
H	2.156347	-0.109499	-3.209355
H	0.555008	-0.182982	-3.967040
C	2.310689	0.205974	-6.009721
H	1.114671	1.855454	-5.312868
C	3.114153	2.132871	-4.553614
C	1.924850	1.229809	4.922406
H	0.555006	-0.182979	3.967042
H	2.156345	-0.109499	3.209355
C	2.310690	0.205977	6.009720
C	3.114156	2.132870	4.553610
H	1.114674	1.855458	5.312866
H	3.466568	2.679488	5.431124
H	3.949659	1.537160	4.173636
H	2.841228	2.860943	3.788548
H	2.672213	0.721314	6.901488
H	1.460209	-0.414165	6.302481
H	3.108370	-0.456326	5.662023
H	2.672210	0.721311	-6.901491
H	3.108370	-0.456327	-5.662024
H	1.460208	-0.414170	-6.302481
H	3.466563	2.679487	-5.431130
H	2.841225	2.860943	-3.788553
H	3.949657	1.537161	-4.173640

B3LYP.ML04

Cl	-2.319287	-0.830230	0.000001
Ti	-0.174307	-1.803172	0.000000
Cl	-0.574666	-3.175828	1.755817
Cl	-0.574667	-3.175828	-1.755817
Cl	2.153413	-2.103636	-0.000001
O	0.316572	-0.195671	1.317246
C	0.319796	1.025108	1.567275
O	0.813904	1.462819	2.740764
C	-0.211531	2.117159	0.709875
C	1.312032	0.435807	3.715234
C	-0.211531	2.117159	-0.709875
C	0.319795	1.025108	-1.567276

O	0.316571	-0.195671	-1.317247
O	0.813903	1.462819	-2.740765
C	1.312031	0.435807	-3.715234
C	-0.740701	3.227354	1.385735
C	-1.293563	4.302827	0.696133
C	-1.293563	4.302827	-0.696133
C	-0.740702	3.227354	-1.385735
H	-0.721158	3.232723	-2.464180
H	-1.715355	5.133142	-1.245885
H	-1.715354	5.133142	1.245885
H	-0.721157	3.232723	2.464180
C	1.820096	1.192333	-4.922963
H	2.087896	-0.139186	-3.212991
H	0.479347	-0.227518	-3.944429
H	2.200845	0.478644	-5.657013
H	1.024488	1.771145	-5.393296
H	2.631791	1.868358	-4.652766
C	1.820095	1.192334	4.922963
H	0.479349	-0.227518	3.944428
H	2.087899	-0.139184	3.212991
H	2.200845	0.478645	5.657014
H	2.631790	1.868360	4.652767
H	1.024486	1.771144	5.393296

B3LYP.ML05

Cl	-1.926573	-2.643722	-1.434659
Ti	0.002762	-2.442027	-0.232938
Cl	0.143988	-4.652877	0.177347
Cl	2.105436	-2.325938	-1.111652
Cl	-0.218163	-1.828308	1.929024
H	-0.392342	0.814212	1.387884
C	-0.435079	1.796066	0.939368
C	-0.331406	1.930514	-0.455506
C	-0.166129	0.725720	-1.280250
O	-0.110875	-0.437300	-0.794490
O	-0.077522	0.950653	-2.594399
C	0.093390	-0.182646	-3.562017
C	-0.592127	2.929110	1.733563
C	-0.646395	4.192847	1.148347
C	-0.543277	4.332667	-0.244440
C	-0.385799	3.201794	-1.047100
H	-0.306635	3.308624	-2.116616
C	-0.606990	5.702241	-0.818373
H	-0.767956	5.081925	1.751485
H	-0.671904	2.825233	2.806788
C	0.157990	0.435533	-4.941456
H	1.007535	-0.707023	-3.291115
H	-0.758217	-0.848417	-3.437188
H	0.282776	-0.357741	-5.681993
H	-0.758479	0.977958	-5.174781
H	1.002868	1.118971	-5.029069
O	-0.495696	5.716089	-2.181575
O	-0.745749	6.729954	-0.145765
C	-0.547241	7.036750	-2.854080
C	-0.402831	6.784730	-4.341602
H	-1.496309	7.508925	-2.599913
H	0.258732	7.651889	-2.453735
H	-0.435559	7.735604	-4.878698
H	0.546987	6.298219	-4.566841
H	-1.211979	6.154918	-4.713346

B3LYP.ML06

Cl	-1.925600	-2.695145	-1.419902
Ti	0.006612	-2.505072	-0.220632
Cl	0.148317	-4.718495	0.171875
Cl	2.108633	-2.379761	-1.099942
Cl	-0.211213	-1.902254	1.941691
H	-0.387883	0.759413	1.413996
C	-0.430878	1.740337	0.964182
C	-0.328231	1.875332	-0.429981
C	-0.163220	0.670087	-1.257118
O	-0.107494	-0.493037	-0.774361
O	-0.075695	0.899005	-2.571244
C	0.094544	-0.232413	-3.541530
C	-0.587331	2.869995	1.758310
C	-0.642819	4.141877	1.172310
C	-0.540227	4.276922	-0.220190
C	-0.383755	3.150600	-1.018574
H	-0.304452	3.249766	-2.090482
H	-0.583802	5.259654	-0.664145
C	-0.811525	5.319470	2.067510
H	-0.667876	2.783181	2.832378
C	0.158080	0.387938	-4.920023
H	1.008869	-0.757204	-3.272074
H	-0.756944	-0.898388	-3.417032
H	0.282247	-0.404187	-5.661867
H	-0.758655	0.930479	-5.152239
H	1.003136	1.071222	-5.007674
O	-0.852286	6.504432	1.386605
O	-0.906005	5.247443	3.297304
C	-1.018231	7.742327	2.186706
C	-1.032457	8.903503	1.212913
H	-1.946962	7.657527	2.751143
H	-0.191708	7.799781	2.895136
H	-1.153414	9.840082	1.762344
H	-0.099327	8.955925	0.650704
H	-1.858466	8.813392	0.506409

B3LYP.ML07

Cl	-2.067923	-0.896732	-0.168694
Ti	0.118452	-1.748477	0.000527
Cl	-0.293648	-3.126982	1.748562
Cl	-0.053797	-3.233479	-1.694458
Cl	2.459540	-1.800161	0.170616
O	0.360359	-0.097986	1.363853
C	0.775158	1.048653	1.613586
O	1.003735	1.449809	2.870035
C	1.078569	2.099783	0.581312
C	0.811426	0.452581	3.978890
C	0.144633	2.077569	-0.653333
C	0.491062	1.027097	-1.670442
O	0.552382	-0.196919	-1.440465
O	0.736180	1.512184	-2.895011
C	1.041823	0.536761	-3.996222
H	1.017412	3.073176	1.065107
H	0.177247	3.047530	-1.143503
C	1.245258	1.350403	-5.255173
H	1.927898	-0.021269	-3.698106
H	0.200495	-0.151164	-4.061713
H	1.469696	0.676400	-6.084938

H	0.348366	1.916006	-5.508947
H	2.077872	2.046060	-5.146587
C	1.200712	1.149150	5.263785
H	-0.232581	0.144370	3.957575
H	1.436413	-0.409167	3.751139
H	1.074422	0.456158	6.098645
H	2.243365	1.467013	5.240219
H	0.573087	2.021719	5.447185
H	-0.886792	1.892268	-0.340135
H	2.122951	1.967441	0.279053

B3LYP.ML08

Ti	0.079264	-1.666915	0.354971
Cl	-2.208524	-1.100245	0.449366
Cl	0.054813	-2.962467	2.202501
Cl	-0.197449	-3.240406	-1.259136
Cl	2.418507	-1.585092	0.140412
O	0.411583	0.067320	1.598451
C	0.316115	1.314989	1.568181
O	1.045262	2.061863	2.410379
C	-0.592794	2.075588	0.625211
C	1.960137	1.358952	3.371036
C	0.087776	2.331467	-0.764488
C	0.183938	1.056009	-1.572840
O	0.157682	-0.102359	-1.112918
O	0.292913	1.264265	-2.894275
C	0.398477	0.063525	-3.792289
H	-1.424736	1.391026	0.441231
C	1.454248	3.117467	-0.712758
C	0.516360	0.585042	-5.207608
H	1.267859	-0.507979	-3.471674
H	-0.493247	-0.539957	-3.631999
H	0.587593	-0.260474	-5.895487
H	-0.356540	1.176913	-5.484630
H	1.408621	1.199648	-5.330908
C	2.702495	2.434365	4.134154
H	1.337778	0.734751	4.010632
H	2.615655	0.714315	2.788257
H	3.376147	1.963374	4.853577
H	3.300372	3.053284	3.464389
H	2.014349	3.078281	4.682697
H	-0.611504	2.955228	-1.320260
C	-1.193361	3.355524	1.286574
C	1.561938	4.122808	-1.875015
H	1.424429	3.687119	0.219905
C	2.697047	2.207465	-0.670726
H	3.587964	2.809246	-0.479545
H	2.644623	1.438200	0.099481
H	2.847960	1.698502	-1.625955
H	2.488889	4.695268	-1.793503
H	1.564375	3.611731	-2.839241
H	0.730633	4.832414	-1.869533
C	-2.107339	4.134976	0.319548
C	-2.001853	2.963227	2.542693
H	-0.375536	4.010181	1.597143
H	-2.620529	4.930839	0.863036
H	-1.560544	4.609379	-0.496844
H	-2.874502	3.485207	-0.111973
H	-2.403664	3.856285	3.025633
H	-2.842741	2.317629	2.276263

H	-1.394344	2.438638	3.281065

B3LYP.ML09			
Cl	0.447027	1.596902	-2.289760
Ti	-0.000271	1.909974	-0.000388
Cl	1.706520	3.362610	0.335857
Cl	-1.707517	3.361993	-0.336994
Cl	-0.447470	1.597331	2.289063
O	1.339295	0.254066	0.227086
C	1.588487	-0.968559	0.253610
O	2.844255	-1.406850	0.069598
C	0.591189	-2.075762	0.513012
C	3.922367	-0.387133	-0.163435
C	-0.590495	-2.076072	-0.512799
C	-1.588136	-0.969116	-0.253672
O	-1.339325	0.253592	-0.227451
O	-2.843767	-1.407753	-0.069551
C	-3.922197	-0.388315	0.163230
H	1.133161	-3.008227	0.358542
H	-1.132177	-3.008667	-0.358099
C	-5.211440	-1.154451	0.364110
H	-3.631976	0.199529	1.032266
H	-3.944748	0.265195	-0.707530
H	-6.026009	-0.446929	0.534507
H	-5.457297	-1.752594	-0.513835
H	-5.148073	-1.814817	1.229520
C	5.211852	-1.152915	-0.364106
H	3.631969	0.200396	-1.032625
H	3.944704	0.266608	0.707157
H	6.026199	-0.445180	-0.534678
H	5.457890	-1.750753	0.513996
H	5.148701	-1.813524	-1.229346
C	-0.130145	-2.062106	-2.013700
C	0.130838	-2.061564	2.013909
C	-0.736749	-3.294938	2.330224
C	1.341286	-2.005622	2.965779
H	-0.458527	-1.156620	2.181298
C	-1.340608	-2.006781	-2.965586
H	0.458935	-1.157018	-2.181313
C	0.737831	-3.295285	-2.329704
H	0.999535	-2.039098	4.001699
H	2.013920	-2.852983	2.804172
H	1.913211	-1.083347	2.848660
H	-1.007572	-3.289699	3.388029
H	-1.665058	-3.317614	1.758479
H	-0.188756	-4.221949	2.134151
H	-0.998844	-2.040400	-4.001497
H	-2.012972	-2.854318	-2.803774
H	-1.912828	-1.084660	-2.848692
H	1.008653	-3.290228	-3.387509
H	1.666147	-3.317524	-1.757952
H	0.190131	-4.222419	-2.133396

B3LYP.ML10			
Ti	0.032247	0.096116	1.070868
Cl	2.248521	-0.191604	0.724979
Cl	-1.453399	-0.843390	-0.375461
Cl	-0.154955	-1.544139	2.606685
Cl	-0.657280	1.749350	2.449436
O	0.177500	1.635192	-0.453620

C	-0.780234	2.778988	-0.625857
C	-0.315145	3.477967	-1.899041
C	0.236896	2.322141	-2.757101
C	0.931976	1.421008	-1.739247
H	-1.778389	2.350602	-0.721030
H	-0.715107	3.379526	0.274007
H	0.471658	4.200388	-1.673617
H	-1.133912	4.006103	-2.387502
H	0.929765	2.664661	-3.525582
H	-0.579195	1.787560	-3.246224
H	0.877573	0.362557	-1.976454
H	1.962770	1.705286	-1.540545

B3LYP.ML10-cis

Ti	0.000000	0.000000	0.889954
Cl	2.340071	-0.001236	0.637493
Cl	-2.340072	0.001236	0.637493
Cl	0.003390	-1.723981	2.391122
Cl	-0.003391	1.723981	2.391122
O	-0.026157	1.434804	-0.741730
O	0.026156	-1.434804	-0.741730
C	-0.979293	2.597349	-0.808901
C	-0.346418	3.558515	-1.812265
C	0.431426	2.624818	-2.762178
C	1.008475	1.578227	-1.814084
C	0.979293	-2.597349	-0.808902
C	0.346419	-3.558514	-1.812266
C	-0.431427	-2.624818	-2.762178
C	-1.008476	-1.578227	-1.814083
H	-1.935616	2.197605	-1.138149
H	-1.071814	2.988205	0.199194
H	0.338412	4.243645	-1.309156
H	-1.101322	4.150115	-2.330221
H	1.216989	3.144391	-3.311047
H	-0.245033	2.165973	-3.487048
H	1.155798	0.593543	-2.247170
H	1.928942	1.902838	-1.334746
H	1.935616	-2.197604	-1.138150
H	1.071814	-2.988205	0.199193
H	1.101323	-4.150114	-2.330221
H	-0.338411	-4.243645	-1.309156
H	0.245032	-2.165972	-3.487049
H	-1.216990	-3.144391	-3.311046
H	-1.155799	-0.593543	-2.247169
H	-1.928942	-1.902839	-1.334745

B3LYP.ML11

Ti	-1.154346	-2.000541	0.196374
Cl	-3.281485	-1.290764	0.825139
Cl	-1.043522	-3.738948	1.640032
Cl	-1.847503	-3.028942	-1.700858
Cl	1.139871	-2.078788	-0.390108
O	-0.462979	-0.608278	1.722776
C	-0.755010	0.802879	1.430729
O	-1.027033	0.003966	-0.802406
C	-0.377633	1.054964	-0.013502
H	-1.820021	0.941883	1.598157
H	-0.179363	1.439193	2.102734
H	-0.749153	2.026737	-0.346177
H	0.701394	0.991390	-0.171209

C	-0.869978	0.188228	-2.254062
H	-1.195521	1.196200	-2.511851
H	0.172489	0.027444	-2.530578
H	-1.504601	-0.548536	-2.730101
C	0.591123	-0.860056	2.717829
H	1.550650	-0.515968	2.332914
H	0.322283	-0.347065	3.640666
H	0.614737	-1.931670	2.874341

B3LYP.ML12

Ti	-1.079028	-1.919686	0.172909
Cl	-2.438275	-0.008836	0.353341
Cl	-1.643604	-2.715876	2.227216
Cl	-2.588260	-3.076717	-1.074622
Cl	0.659926	-3.467564	-0.155605
O	0.491456	-0.671818	1.069617
C	0.726963	0.744683	0.708457
O	-0.284677	-0.967270	-1.640750
C	1.116990	0.866653	-0.759808
H	-0.187763	1.287697	0.937742
H	1.532606	1.110785	1.344749
H	1.371600	1.916204	-0.947117
H	2.016225	0.276615	-0.953066
C	-0.127570	-1.701404	-2.909859
H	0.876912	-1.526772	-3.295221
H	-0.261639	-2.752481	-2.692864
H	-0.885497	-1.357580	-3.613509
C	1.331659	-1.145763	2.184831
C	0.023503	0.477028	-1.747357
H	0.354056	0.662388	-2.769280
H	-0.905073	1.014797	-1.566402
H	1.038749	-0.623093	3.095228
H	1.161285	-2.208899	2.287434
H	2.377529	-0.958678	1.941568

B3LYP.ML13

Ti	-0.782398	-2.239256	0.148349
Cl	-2.615322	-0.880343	0.706018
Cl	-0.760927	-3.313362	2.148643
Cl	-2.069159	-3.699825	-1.032859
Cl	1.241268	-3.196189	-0.572917
O	0.461628	-0.641294	0.951206
C	1.499082	0.050572	0.148302
O	-0.540180	-0.935806	-1.682677
C	0.992695	1.401532	-0.374156
H	2.380441	0.159486	0.782841
H	1.733046	-0.637640	-0.652923
H	1.164177	2.185057	0.368877
H	1.602605	1.668265	-1.244232
C	-0.448351	-1.613504	-2.995174
H	0.244476	-1.054845	-3.624850
H	-0.070548	-2.611435	-2.821290
H	-1.438666	-1.654190	-3.448350
C	0.365314	-0.151204	2.336064
C	-0.503985	1.409624	-0.733527
H	-0.776938	2.420567	-1.056343
H	-1.097382	1.202088	0.153319
H	0.311030	0.937083	2.332122
H	-0.538573	-0.564760	2.764500
H	1.240207	-0.494141	2.887976

C	-0.943671	0.489312	-1.864653
H	-2.029477	0.506845	-1.970845
H	-0.485958	0.804607	-2.805177

B3LYP.ML14

Ti	-1.263360	-1.671534	0.446434
Cl	-1.796945	0.610092	0.698278
Cl	-1.637590	-2.168310	2.636247
Cl	-3.332042	-2.181038	-0.361641
Cl	-0.352216	-3.768295	-0.088857
O	0.785654	-1.096616	0.908781
C	1.430603	0.144994	0.413324
O	-0.513266	-1.106302	-1.558398
C	1.636282	0.122982	-1.115507
H	0.786701	0.964417	0.718931
H	2.385614	0.233437	0.926804
C	2.368943	1.454119	-1.501027
C	2.502320	-1.128966	-1.528729
C	-1.205429	-1.649208	-2.744579
H	-0.524589	-1.617339	-3.593001
H	-1.465895	-2.675324	-2.515753
H	-2.101527	-1.063152	-2.943445
C	1.551857	-1.797900	1.957819
C	0.268509	0.127225	-1.825856
H	0.406363	0.191996	-2.903715
H	-0.344823	0.960791	-1.494380
H	1.481769	-1.233584	2.887069
H	1.109283	-2.778360	2.075852
H	2.585763	-1.893810	1.632025
H	2.730948	1.350240	-2.525699
C	1.572776	2.773041	-1.381795
H	3.262224	1.535074	-0.873989
C	2.458842	4.039657	-1.472746
H	0.812897	2.832528	-2.168949
H	1.031182	2.807929	-0.432076
C	1.618253	5.299437	-1.191771
H	3.225175	3.964402	-0.689474
C	3.176211	4.160021	-2.831188
H	2.240690	6.197492	-1.203948
H	0.838848	5.424313	-1.949859
H	1.129016	5.242753	-0.216140
H	3.768379	5.077283	-2.875563
H	3.853926	3.324201	-3.017312
H	2.449840	4.194634	-3.649778
C	2.573485	-1.376875	-3.050712
C	3.947160	-1.083109	-0.979522
H	2.001727	-1.994822	-1.089820
H	3.229938	-2.227262	-3.247864
H	1.604991	-1.622623	-3.483721
H	2.984032	-0.520843	-3.592819
H	4.420000	-2.057444	-1.120921
H	4.556502	-0.346848	-1.508916
H	4.002452	-0.851977	0.085539

B3LYP.ML15

Ti	-0.949260	-2.133417	0.293778
Cl	-2.344469	-0.244413	0.466592
Cl	-1.261075	-2.724730	2.467413
Cl	-2.563052	-3.396922	-0.691460
Cl	0.739347	-3.737497	-0.060398

O	0.701040	-0.795700	0.845663
C	0.794661	0.614975	0.405232
O	-0.327543	-1.327931	-1.651610
C	0.990580	0.740651	-1.118384
H	-0.119539	1.107305	0.726595
H	1.648577	1.060719	0.912338
C	1.047459	2.239073	-1.461427
C	2.371580	0.263592	-1.585771
C	-0.352323	-2.160005	-2.872744
H	0.520196	-1.913706	-3.475728
H	-0.306867	-3.193338	-2.554469
H	-1.277139	-1.967717	-3.415684
C	1.632274	-1.133210	1.942593
C	-0.165557	0.118144	-1.925563
H	0.041477	0.229314	-2.988488
H	-1.113436	0.593058	-1.685908
H	1.307821	-0.629283	2.852445
H	1.597484	-2.207235	2.070642
H	2.634398	-0.821602	1.652454
C	2.289900	2.563467	-2.043305
C	2.559596	3.875590	-2.434652
C	1.580660	4.855043	-2.239667
C	0.348858	4.530132	-1.661996
C	0.073680	3.213585	-1.267552
H	3.509540	4.138374	-2.882720
H	1.778209	5.876302	-2.539072
H	-0.398054	5.299799	-1.517915
H	-0.883651	2.973443	-0.821167
C	2.925736	-1.012495	-1.541417
C	4.224064	-1.203034	-2.036431
C	4.952816	-0.133320	-2.565935
C	4.399113	1.149599	-2.611675
C	3.107875	1.344885	-2.120609
H	2.374225	-1.848283	-1.135077
H	4.664243	-2.191553	-2.006687
H	5.953651	-0.299385	-2.943495
H	4.968468	1.973848	-3.022814

TPSS.M

Ti	0.000017	0.000055	-0.000135
Cl	1.732375	-1.129915	0.778866
Cl	-1.303423	-1.356803	-1.159713
Cl	0.713098	1.633083	-1.307574
Cl	-1.142077	0.853587	1.688578

TPSS.L01

O	1.235328	1.367778	0.000001
C	1.075374	0.134635	0.000000
O	-0.178770	-0.462256	-0.000001
C	2.171001	-0.901820	0.000000
C	-1.349095	0.473870	0.000001
C	-2.600399	-0.394925	-0.000001
H	-1.272915	1.107133	0.888915
H	-1.272915	1.107138	-0.888909
H	-3.490684	0.246294	0.000000
H	-2.633087	-1.033149	-0.889148
H	-2.633087	-1.033153	0.889143
H	3.138528	-0.397828	-0.000019
H	2.085705	-1.542960	0.884215
H	2.085681	-1.542987	-0.884192

 TPSS.L02

O	-1.463405	0.159956	1.080874
C	-0.319385	0.127416	1.581193
O	-0.110560	0.161717	2.953605
C	0.945075	0.049786	0.808203
C	-1.345409	0.240212	3.794030
C	0.858830	0.009517	-0.598144
H	-0.122832	0.036668	-1.060579
C	2.208259	0.015778	1.432917
C	3.370671	-0.057774	0.655316
C	3.279851	-0.097682	-0.745545
C	2.022538	-0.063941	-1.371249
H	1.951804	-0.094825	-2.455472
H	4.184062	-0.154786	-1.346563
H	4.343951	-0.083916	1.138938
H	2.267969	0.047034	2.514940
C	-0.882424	0.267942	5.245351
H	-1.891752	1.143499	3.507034
H	-1.965428	-0.631388	3.564477
H	-1.756860	0.325545	5.905594
H	-0.320263	-0.638130	5.494551
H	-0.246599	1.138609	5.437072

 TPSS.L03

O	-0.907627	1.099267	0.408283
C	-0.036285	0.315591	0.831262
O	-0.279359	-0.589263	1.854511
C	1.379006	0.276989	0.371876
C	-1.661830	-0.558237	2.426126
C	1.724013	0.673657	-0.942431
C	0.719863	0.950340	-2.013290
O	0.757360	1.937363	-2.771311
O	-0.202574	-0.069162	-2.132818
C	-1.305602	0.166266	-3.115843
C	2.401776	-0.031465	1.289582
C	3.748224	0.075779	0.921136
C	4.088078	0.502431	-0.370963
C	3.078418	0.801712	-1.294197
H	3.325353	1.126452	-2.300378
H	5.131175	0.599274	-0.659839
H	4.526234	-0.160479	1.642146
H	2.128643	-0.333254	2.294569
C	-2.189037	-1.084847	-3.128056
H	-1.851604	1.054337	-2.783509
H	-0.854390	0.364512	-4.094098
C	-3.428658	-0.813581	-4.016838
C	-1.414466	-2.330451	-3.614395
H	-2.530672	-1.259249	-2.098393
C	-1.733519	-1.614846	3.533265
H	-1.849980	0.452548	2.804929
H	-2.362759	-0.767935	1.612361
C	-3.196820	-1.716150	4.032418
H	-1.448672	-2.579702	3.091107
C	-0.769433	-1.297189	4.698349
H	-2.057102	-3.219233	-3.585963
H	-1.072258	-2.192463	-4.649705
H	-0.537899	-2.516825	-2.985172
H	-4.094983	-1.684519	-4.015011
H	-3.999324	0.051695	-3.656661

H	-3.131989	-0.619905	-5.056626
H	-0.826610	-2.076525	5.468142
H	0.265800	-1.236558	4.346836
H	-1.030994	-0.338043	5.166598
H	-3.281498	-2.490701	4.803755
H	-3.529023	-0.766127	4.472376
H	-3.883154	-1.973940	3.215909

TPSS.L04

O	-1.161452	1.003067	0.485322
C	-0.288868	0.230763	0.926631
O	-0.510636	-0.600357	2.015591
C	1.107513	0.132243	0.422090
C	-1.867798	-0.496392	2.639572
C	1.416296	0.459703	-0.919944
C	0.382899	0.719477	-1.967059
O	0.413525	1.678825	-2.760198
O	-0.561446	-0.285659	-2.022842
C	-1.686555	-0.060743	-2.985654
C	2.153130	-0.166487	1.317270
C	3.487913	-0.115984	0.898119
C	3.793299	0.243297	-0.422770
C	2.760324	0.531675	-1.323416
H	2.980920	0.804299	-2.350976
H	4.827737	0.296249	-0.751451
H	4.284179	-0.343806	1.601674
H	1.906516	-0.416515	2.343165
C	-2.604090	-1.271104	-2.871246
H	-2.178581	0.873135	-2.699369
H	-1.257050	0.053846	-3.985108
H	-3.445873	-1.157480	-3.565829
H	-2.069352	-2.193164	-3.122698
H	-3.002440	-1.362445	-1.855671
C	-1.883424	-1.469588	3.811436
H	-2.017483	0.542671	2.947645
H	-2.607764	-0.745319	1.873441
H	-2.865535	-1.436557	4.299347
H	-1.699688	-2.493883	3.471177
H	-1.121161	-1.204876	4.551749

TPSS.L05

O	1.201712	0.160339	1.004649
C	0.763171	1.220237	1.494588
O	0.807043	1.485567	2.856198
C	0.145939	2.325952	0.716826
C	1.417326	0.413682	3.704385
C	0.043670	2.176828	-0.676358
H	0.410022	1.273723	-1.152439
C	-0.331266	3.501165	1.333139
C	-0.905335	4.515880	0.556714
C	-1.007749	4.368333	-0.832454
C	-0.532197	3.195248	-1.454079
C	-0.616994	2.989224	-2.923386
H	-1.450702	5.149180	-1.439958
H	-1.272499	5.420798	1.033757
H	-0.248432	3.608119	2.408633
C	1.361798	0.912439	5.142772
H	0.841638	-0.503841	3.551626
H	2.439786	0.248454	3.352438
H	1.800200	0.156974	5.806680

H	1.927634	1.842936	5.257131
H	0.327790	1.089774	5.456542
O	-1.202859	4.062728	-3.579619
O	-0.214495	1.974529	-3.526823
C	-1.321954	3.925256	-5.065461
C	-1.984041	5.201549	-5.568968
H	-0.316265	3.781291	-5.470991
H	-1.915033	3.029910	-5.273332
H	-2.093933	5.148328	-6.659284
H	-2.978062	5.327993	-5.127374
H	-1.377570	6.080150	-5.325400

TPSS.L06

O	1.102736	0.209610	0.883082
C	0.697697	1.244625	1.452011
O	0.827150	1.442651	2.817500
C	0.035437	2.384665	0.766303
C	1.486837	0.332508	3.575066
C	-0.152824	2.297612	-0.627796
H	0.190249	1.407514	-1.145568
C	-0.400992	3.530096	1.463144
C	-1.017860	4.573746	0.770367
C	-1.206121	4.486693	-0.623733
C	-0.769693	3.341262	-1.320573
H	-0.917261	3.280000	-2.392600
C	-1.868382	5.626733	-1.309441
H	-1.360933	5.463844	1.288139
H	-0.253423	3.591358	2.535170
C	1.516106	0.760904	5.036593
H	0.903155	-0.578155	3.411831
H	2.486745	0.188154	3.155515
H	1.993414	-0.024426	5.635862
H	2.087085	1.686678	5.162432
H	0.502408	0.919300	5.419007
O	-1.997835	5.428707	-2.674929
O	-2.273420	6.661748	-0.740512
C	-2.657522	6.538849	-3.432496
C	-2.686791	6.110454	-4.894023
H	-3.657430	6.683203	-3.012944
H	-2.073840	7.449513	-3.269260
H	-3.164099	6.895784	-5.493291
H	-1.673093	5.952058	-5.276437
H	-3.257769	5.184680	-5.019862

TPSS.L07

C	-5.386250	0.611488	0.449602
C	-4.326064	-0.324364	-0.116369
O	-3.002078	0.340851	0.114630
C	-1.888842	-0.349389	-0.333452
O	-1.958887	-1.470984	-0.869795
O	1.958726	1.469208	-0.873152
C	1.888782	0.348702	-0.334522
C	0.624010	-0.449834	-0.108630
C	-0.624028	0.449601	-0.109411
H	-0.538200	1.189698	-0.916564
O	3.002100	-0.340626	0.114757
C	4.326043	0.324121	-0.117834
C	5.386330	-0.610555	0.449887
H	0.538023	-1.191550	-0.914280
H	0.716885	-1.016478	0.823127

H	-0.716722	1.018114	0.821225
H	-4.435569	-0.487526	-1.192505
H	-4.304971	-1.295719	0.386177
H	4.435367	0.485065	-1.194322
H	4.305028	1.296510	0.382712
H	-6.379234	0.167963	0.304458
H	-5.232540	0.773840	1.521458
H	-5.362434	1.581494	-0.057615
H	6.379287	-0.167324	0.303661
H	5.232802	-0.770697	1.522101
H	5.362436	-1.581605	-0.055324

TPSS.L08

C	0.747421	0.854372	-2.787576
C	-0.537792	1.629309	-2.525624
O	-0.129515	2.966053	-1.980048
C	-1.169798	3.825970	-1.664177
O	-2.362510	3.507885	-1.834982
C	-0.727225	5.173225	-1.100917
C	-1.092118	5.298140	0.436619
C	-2.592201	5.092983	0.635525
O	-3.150543	4.222609	1.324727
C	0.738625	5.576422	-1.445902
C	0.901638	5.719993	-2.981835
C	1.142775	6.914190	-0.776856
C	-0.199382	4.505885	1.441470
C	-0.328641	2.963113	1.405140
C	-0.436451	5.031106	2.881810
O	-3.303674	6.070309	-0.047842
C	-4.792576	5.920046	-0.030719
C	-5.354505	7.041888	-0.894995
H	1.316238	0.713931	-1.862579
H	1.381140	1.377797	-3.511165
H	0.500065	-0.133810	-3.195039
H	-1.181900	1.148598	-1.783663
H	-1.121723	1.804157	-3.433929
H	-1.393856	5.894475	-1.592058
H	-0.931497	6.362869	0.652947
H	1.416308	4.786729	-1.099881
H	1.938751	5.979438	-3.228660
H	0.652328	4.791680	-3.504242
H	0.253124	6.521204	-3.362838
H	2.137002	7.217111	-1.127516
H	0.436362	7.713362	-1.041303
H	1.186287	6.843159	0.315792
H	0.836820	4.756215	1.169989
H	0.342518	2.529733	2.158363
H	-1.351489	2.651601	1.632616
H	-0.038513	2.555965	0.432455
H	0.284263	4.575784	3.572389
H	-0.312844	6.121422	2.934191
H	-1.444999	4.778056	3.226928
H	-5.025238	4.926306	-0.423147
H	-5.126227	5.979521	1.009538
H	-5.073808	8.022992	-0.496972
H	-4.987058	6.961925	-1.923266
H	-6.449663	6.975535	-0.912606

TPSS.L09

C	-1.477101	0.628789	0.758620
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H	-1.738109	1.289834	1.589832
H	-0.445540	0.290708	0.892898
H	-2.144136	-0.242948	0.785549
C	-1.646164	1.345492	-0.580244
H	-1.407862	0.701893	-1.429132
H	-2.646183	1.772946	-0.692143
O	-0.655119	2.464550	-0.724963
C	-1.003454	3.679623	-0.164453
C	0.084596	4.731472	-0.336369
O	-2.092493	3.874444	0.410159
C	0.671976	4.759719	-1.784574
H	-0.422406	5.689123	-0.175227
C	1.159265	4.628592	0.819442
H	1.883070	5.427595	0.623695
C	0.572372	4.848720	2.252051
C	1.918032	3.309273	0.772572
C	1.723106	5.883208	-1.953120
H	1.149494	3.794467	-1.985782
C	-0.473738	4.964308	-2.808092
H	-0.071790	4.969759	-3.828793
H	-1.222069	4.166235	-2.745742
H	-0.980297	5.924549	-2.638830
H	2.020019	5.957540	-3.006876
H	1.308402	6.856603	-1.654332
H	2.626678	5.690115	-1.367069
O	3.046207	3.399513	-0.035356
O	1.611988	2.271942	1.386967
C	3.874979	2.156323	-0.170404
C	3.373958	1.294896	-1.329142
H	4.879015	2.546318	-0.346378
H	3.832354	1.622357	0.782185
H	4.023849	0.417029	-1.438083
H	2.352968	0.948885	-1.142010
H	3.391745	1.856574	-2.269240
C	1.726384	4.927979	3.283624
C	-0.296402	6.126008	2.342236
H	-0.050096	3.979758	2.499298
H	1.319419	5.048371	4.294971
H	2.340498	4.020807	3.276484
H	2.374878	5.790779	3.075640
H	-0.565261	6.312473	3.389328
H	0.254040	7.005516	1.977777
H	-1.226929	6.029135	1.774687

TPSS.L10

O	0.000001	-1.293780	-0.000104
C	1.203115	-0.425506	0.135588
C	0.739678	0.995944	-0.231990
C	-0.739677	0.995911	0.232133
C	-1.203117	-0.425487	-0.135648
H	1.554177	-0.480833	1.174425
H	1.972111	-0.826336	-0.530022
H	0.796710	1.150436	-1.316351
H	1.334802	1.770685	0.262269
H	-1.334800	1.770723	-0.262016
H	-0.796708	1.150249	1.316515
H	-1.972103	-0.826414	0.529914
H	-1.554193	-0.480662	-1.174488

TPSS.L11

C	0.057920	-0.100316	0.097297
H	0.005002	-0.008741	1.183253
H	1.109566	-0.125898	-0.223412
H	-0.445821	-1.023796	-0.223484
O	-0.624094	1.081152	-0.436861
C	-0.634646	1.099304	-1.905741
C	-1.368823	2.370806	-2.310925
H	0.393359	1.110259	-2.294596
H	-1.158108	0.214446	-2.294500
O	-1.379375	2.388958	-3.779805
H	-2.396828	2.359851	-1.922070
H	-0.845361	3.255664	-1.922166
C	-2.061389	3.570426	-4.313963
H	-2.008471	3.478851	-5.399920
H	-3.113035	3.596008	-3.993254
H	-1.557648	4.493906	-3.993182

TPSS.L12

C	0.026844	-0.046626	0.236852
H	-0.066761	0.115431	1.311799
H	1.090426	-0.092710	-0.040745
H	-0.464925	-0.990799	-0.040800
O	-0.633154	1.096456	-0.398779
C	-0.587381	1.017399	-1.865715
C	-1.302811	2.256718	-2.407437
H	0.463839	0.986221	-2.196868
H	-1.085990	0.091477	-2.197024
C	-1.319671	2.285935	-3.937169
H	-2.332706	2.270044	-2.035210
H	-0.799350	3.155247	-2.035166
O	-2.026477	3.510024	-4.340011
H	-0.296529	2.303400	-4.347766
H	-1.846290	1.408543	-4.347738
C	-2.106226	3.647931	-5.796337
H	-2.644164	4.579640	-5.978204
H	-1.102393	3.705183	-6.242914
H	-2.657790	2.807175	-6.242764

TPSS.L13

C	0.084710	-0.146858	0.196718
H	0.021690	-0.037810	1.280657
H	1.139975	-0.179136	-0.112678
H	-0.415304	-1.076663	-0.112804
O	-0.591564	1.025092	-0.364476
C	-0.587551	1.018108	-1.835392
C	-1.315524	2.278706	-2.303499
H	0.452956	1.005668	-2.198657
H	-1.096893	0.110684	-2.198602
C	-1.371481	2.375324	-3.846501
H	-2.330932	2.268344	-1.886482
H	-0.798917	3.153013	-1.886647
C	-2.099454	3.635922	-4.314608
H	-0.356074	2.385687	-4.263518
H	-1.888089	1.501017	-4.263353
O	-2.095442	3.628938	-5.785524
H	-3.139961	3.648362	-3.951343
H	-1.590112	4.543346	-3.951397
C	-2.771716	4.800888	-6.346718
H	-2.708695	4.691840	-7.430656
H	-3.826980	4.833166	-6.037321

H	-2.271701	5.730693	-6.037195

TPSS.L14			
C	0.516499	0.001327	0.022102
H	0.864427	0.266748	1.021821
H	1.375478	-0.251045	-0.617612
H	-0.160979	-0.863542	0.080219
O	-0.183640	1.182556	-0.486936
C	-0.692903	0.964303	-1.848105
C	-1.425752	2.229322	-2.362947
H	0.162264	0.723291	-2.502100
H	-1.370719	0.096449	-1.842919
C	-1.407269	2.097695	-3.905137
C	-2.918325	2.311900	-1.853445
C	-0.673498	3.531866	-1.939568
O	-2.163669	3.211340	-4.490723
H	-0.371809	2.130762	-4.275952
H	-1.856431	1.145052	-4.227725
C	-2.161939	3.165508	-5.954930
H	-2.744536	4.028054	-6.283098
H	-1.137231	3.235817	-6.348403
H	-2.630083	2.238956	-6.319190
H	-3.283287	3.285319	-2.207437
C	-3.847545	1.233348	-2.466723
C	-3.054682	2.281170	-0.309754
H	-4.101650	2.467584	-0.034852
H	-2.762391	1.306850	0.098697
H	-2.436609	3.041854	0.176931
H	-4.854924	1.336279	-2.043351
H	-3.934211	1.341543	-3.553061
H	-3.502583	0.214281	-2.241354
H	-1.269652	4.374901	-2.308929
H	-0.663813	3.577540	-0.845648
C	0.784250	3.667262	-2.437388
C	1.562615	4.831800	-1.764134
H	1.330399	2.735967	-2.231520
H	0.806015	3.825817	-3.526444
C	3.049664	4.801450	-2.192210
C	0.940180	6.212861	-2.081516
H	1.517138	4.675262	-0.674943
H	3.620753	5.594032	-1.690944
H	3.513050	3.837901	-1.942501
H	3.144812	4.953152	-3.276822
H	1.519705	7.017609	-1.610483
H	0.932412	6.391142	-3.166251
H	-0.092083	6.285642	-1.720074

TPSS.L15			
C	-0.530744	-0.000099	0.000032
C	-1.412333	0.170580	1.258407
C	0.439423	-1.172982	0.203998
C	0.438834	1.173264	-0.203979
O	-2.311729	1.312852	1.045368
H	-2.010774	-0.735515	1.417797
H	-0.777176	0.358289	2.135661
C	-3.207286	1.521102	2.185377
H	-3.832020	2.377492	1.925388
H	-3.837870	0.635928	2.352007
H	-2.634539	1.741027	3.098052
C	1.782662	-0.724088	0.129758

C	2.844066	-1.626844	0.294211
C	2.552789	-2.979192	0.534252
C	1.220612	-3.422947	0.606394
C	0.152523	-2.520346	0.441244
H	3.877082	-1.291611	0.238724
H	3.365640	-3.689958	0.664126
H	1.012316	-4.474547	0.788821
H	-0.875139	-2.867140	0.478375
C	1.782298	0.725034	-0.129803
C	2.843248	1.628316	-0.294309
C	2.551289	2.980518	-0.534338
C	1.218890	3.423614	-0.606417
C	0.151256	2.520485	-0.441213
H	3.876433	1.293593	-0.238872
H	3.363783	3.691687	-0.664253
H	1.010065	4.475111	-0.788835
H	-0.876580	2.866771	-0.478295
C	-1.412304	-0.171212	-1.258305
O	-2.311136	-1.313918	-1.045224
H	-2.011191	0.734592	-1.417673
H	-0.777093	-0.358616	-2.135585
C	-3.206634	-1.522614	-2.185198
H	-3.830941	-2.379306	-1.925178
H	-2.633813	-1.742268	-3.097892
H	-3.837655	-0.637749	-2.351812

TPSS.ML01

Ti	0.083408	0.051457	1.386702
Cl	1.155886	1.529038	2.745761
Cl	1.317689	-1.516251	0.338405
Cl	-2.005345	0.485651	0.592614
Cl	-0.628583	-1.266465	3.069280
O	0.709636	1.356197	-0.166555
C	0.655811	2.524918	-0.656699
O	1.328467	2.815258	-1.787633
C	-0.118987	3.660560	-0.071269
C	2.136043	1.701645	-2.433302
C	2.772890	2.303684	-3.675000
H	2.864018	1.364971	-1.691518
H	1.439760	0.888915	-2.652744
H	3.369314	1.531692	-4.176076
H	2.011656	2.660336	-4.375730
H	3.434197	3.136172	-3.415517
H	-1.176916	3.379352	-0.013756
H	0.227695	3.839656	0.953007
H	0.000127	4.560834	-0.673706

TPSS.ML01-cis

Ti	0.000001	0.000001	1.244620
Cl	0.662814	1.580618	2.755645
Cl	2.157078	-0.873744	0.917464
Cl	-2.157077	0.873745	0.917466
Cl	-0.662810	-1.580615	2.755647
O	0.556453	1.279527	-0.362751
C	0.609323	2.486962	-0.738806
O	1.290456	2.812389	-1.864551
C	-0.017008	3.645438	-0.036379
C	2.018027	1.698863	-2.587503
C	2.907403	2.371689	-3.621773
H	2.574345	1.131068	-1.838425

H	1.253042	1.057391	-3.033420
H	3.451411	1.600376	-4.180576
H	2.316326	2.961278	-4.329781
H	3.639180	3.027818	-3.140442
H	-1.056798	3.400594	0.203066
H	0.500004	3.803241	0.918079
H	0.046882	4.545554	-0.648106
O	-0.556454	-1.279527	-0.362749
C	-0.609324	-2.486962	-0.738803
O	-1.290457	-2.812389	-1.864548
C	-2.018027	-1.698863	-2.587502
C	-2.907401	-2.371690	-3.621772
H	-2.574345	-1.131068	-1.838424
H	-1.253041	-1.057393	-3.033418
H	-3.451409	-1.600377	-4.180576
H	-2.316324	-2.961280	-4.329780
H	-3.639180	-3.027819	-3.140442
C	0.017006	-3.645438	-0.036375
H	1.056795	-3.400594	0.203072
H	-0.500008	-3.803241	0.918082
H	-0.046883	-4.545554	-0.648102

TPSS.ML02

Cl	-1.946479	-2.692585	-1.335863
Ti	0.004248	-2.450349	-0.166733
Cl	0.170137	-4.662005	0.256939
Cl	2.135133	-2.321534	-0.989030
Cl	-0.238484	-1.821410	1.987892
H	-0.404772	0.829148	1.365627
C	-0.439689	1.805181	0.893814
C	-0.329238	1.903988	-0.510422
C	-0.168359	0.676392	-1.299142
O	-0.120734	-0.485221	-0.777740
O	-0.072967	0.862162	-2.633706
C	0.095587	-0.340496	-3.542392
C	-0.592636	2.963537	1.661166
C	-0.635935	4.220426	1.035879
C	-0.526245	4.321999	-0.362042
C	-0.373295	3.169929	-1.137420
H	-0.287675	3.236957	-2.215824
H	-0.560081	5.296043	-0.842021
H	-0.754752	5.119317	1.635064
H	-0.677530	2.886715	2.741293
C	0.172741	0.209121	-4.957591
H	1.008903	-0.851665	-3.230983
H	-0.768867	-0.987730	-3.380441
H	0.295297	-0.629361	-5.653752
H	-0.742914	0.746395	-5.223795
H	1.028445	0.881436	-5.074681

TPSS.ML03

Ti	-0.119686	-1.765351	0.000000
Cl	-2.230618	-0.727020	0.000000
Cl	-0.569189	-3.127000	1.757188
Cl	-0.569189	-3.127001	-1.757187
Cl	2.191341	-2.140334	0.000001
O	0.424265	-0.192151	1.327758
C	0.382283	1.043322	1.565601
O	0.877671	1.512966	2.741424
C	-0.197048	2.113176	0.712322

C	1.405505	0.476092	3.714757
C	-0.197048	2.113176	-0.712324
C	0.382283	1.043321	-1.565602
O	0.424266	-0.192152	-1.327758
O	0.877672	1.512964	-2.741425
C	1.405505	0.476091	-3.714758
C	-0.773477	3.205858	1.392349
C	-1.372652	4.262363	0.699873
C	-1.372651	4.262363	-0.699876
C	-0.773477	3.205858	-1.392351
H	-0.755434	3.207045	-2.475441
H	-1.830738	5.077623	-1.252180
H	-1.830739	5.077623	1.252177
H	-0.755434	3.207046	2.475438
C	1.947940	1.227531	-4.930992
H	2.176843	-0.095503	-3.190886
H	0.568782	-0.182771	-3.961261
C	2.353394	0.183250	-6.003123
H	1.134858	1.844278	-5.339000
C	3.137762	2.142479	-4.562919
C	1.947941	1.227533	4.930991
H	0.568782	-0.182769	3.961261
H	2.176843	-0.095502	3.190885
C	2.353396	0.183252	6.003121
C	3.137763	2.142481	4.562916
H	1.134860	1.844281	5.338999
H	3.494673	2.679732	5.449659
H	3.973097	1.549144	4.167011
H	2.852105	2.880784	3.805912
H	2.718275	0.692807	6.902236
H	1.505057	-0.449495	6.291120
H	3.157107	-0.467156	5.634314
H	2.718272	0.692805	-6.902238
H	3.157105	-0.467158	-5.634316
H	1.505054	-0.449498	-6.291121
H	3.494670	2.679730	-5.449663
H	2.852104	2.880782	-3.805915
H	3.973096	1.549143	-4.167015

 TPSS.ML04

Cl	-2.292285	-0.709039	0.000001
Ti	-0.196222	-1.775806	0.000000
Cl	-0.662549	-3.130536	1.757688
Cl	-0.662551	-3.130536	-1.757687
Cl	2.109671	-2.178350	-0.000001
O	0.367532	-0.207935	1.326845
C	0.343964	1.027328	1.566821
O	0.838691	1.484950	2.749059
C	-0.209389	2.109684	0.712543
C	1.344806	0.434024	3.719902
C	-0.209390	2.109684	-0.712543
C	0.343963	1.027328	-1.566822
O	0.367531	-0.207935	-1.326845
O	0.838690	1.484950	-2.749060
C	1.344805	0.434023	-3.719902
C	-0.759588	3.216064	1.392190
C	-1.333685	4.286411	0.699834
C	-1.333685	4.286411	-0.699834
C	-0.759588	3.216064	-1.392189
H	-0.740835	3.216942	-2.475187

H	-1.772082	5.112340	-1.252189
H	-1.772081	5.112340	1.252190
H	-0.740834	3.216942	2.475187
C	1.831684	1.188053	-4.946864
H	2.135934	-0.118472	-3.208314
H	0.510698	-0.240702	-3.926862
H	2.218548	0.464144	-5.674173
H	1.017577	1.747569	-5.418716
H	2.637814	1.882431	-4.689717
C	1.831683	1.188054	4.946864
H	0.510700	-0.240702	3.926860
H	2.135936	-0.118471	3.208314
H	2.218547	0.464145	5.674174
H	2.637813	1.882432	4.689719
H	1.017575	1.747569	5.418715

TPSS.ML05

Cl	-1.924915	-2.663613	-1.407199
Ti	0.024296	-2.436880	-0.235821
Cl	0.210845	-4.653634	0.138709
Cl	2.146123	-2.265820	-1.069197
Cl	-0.215336	-1.855126	1.932524
H	-0.408966	0.801997	1.380612
C	-0.449155	1.790849	0.936466
C	-0.341690	1.928847	-0.464929
C	-0.176690	0.721910	-1.288439
O	-0.121160	-0.450537	-0.796033
O	-0.087859	0.946394	-2.616032
C	0.083549	-0.228517	-3.560839
C	-0.605920	2.927015	1.736907
C	-0.655530	4.197119	1.149568
C	-0.548280	4.340499	-0.249662
C	-0.391495	3.206192	-1.059102
H	-0.309130	3.314291	-2.132243
C	-0.606773	5.714936	-0.817680
H	-0.776348	5.090663	1.753698
H	-0.688706	2.821024	2.814393
C	0.142220	0.362677	-4.959927
H	1.004565	-0.739081	-3.271861
H	-0.773361	-0.888194	-3.409324
H	0.266427	-0.454315	-5.680907
H	-0.781044	0.898275	-5.201950
H	0.990104	1.046707	-5.065004
O	-0.489146	5.727097	-2.195102
O	-0.745939	6.752360	-0.139322
C	-0.538170	7.079476	-2.842045
C	-0.388026	6.850852	-4.340053
H	-1.493394	7.541107	-2.576310
H	0.273049	7.679729	-2.420415
H	-0.418188	7.817315	-4.858075
H	0.566571	6.366182	-4.569568
H	-1.201299	6.227347	-4.725631

TPSS.ML06

Cl	-1.927093	-2.702065	-1.406861
Ti	0.022731	-2.491131	-0.232878
Cl	0.205682	-4.711380	0.119369
Cl	2.147540	-2.312730	-1.057938
Cl	-0.219812	-1.924880	1.936449
H	-0.408670	0.754292	1.400396

C	-0.447585	1.742282	0.954471
C	-0.338407	1.881483	-0.446178
C	-0.172473	0.675112	-1.271670
O	-0.118589	-0.497935	-0.782460
O	-0.080667	0.903383	-2.599186
C	0.092390	-0.269829	-3.546097
C	-0.604286	2.875499	1.752588
C	-0.653057	4.154717	1.164231
C	-0.544050	4.293529	-0.234982
C	-0.387732	3.163492	-1.037853
H	-0.303104	3.261056	-2.113963
H	-0.582726	5.282035	-0.677266
C	-0.820836	5.330244	2.064145
H	-0.690118	2.790640	2.830800
C	0.157539	0.323409	-4.943992
H	1.011322	-0.782566	-3.254286
H	-0.766219	-0.928273	-3.398798
H	0.282944	-0.492575	-5.665866
H	-0.763815	0.860919	-5.189143
H	1.007313	1.005723	-5.045161
O	-0.851453	6.527580	1.374249
O	-0.923510	5.258889	3.304835
C	-1.017426	7.759646	2.214120
C	-1.018525	8.943093	1.256018
H	-1.955066	7.659870	2.768319
H	-0.188370	7.789875	2.926846
H	-1.138140	9.871285	1.828241
H	-0.076784	8.999526	0.700387
H	-1.844969	8.869518	0.541621

TPSS.ML07

Cl	-2.111793	-0.835612	-0.102380
Ti	0.056833	-1.734320	0.013105
Cl	-0.348486	-3.101040	1.776929
Cl	-0.196346	-3.225322	-1.669440
Cl	2.392688	-1.840453	0.130270
O	0.366255	-0.095913	1.359116
C	0.754057	1.074064	1.597895
O	1.013137	1.482645	2.860219
C	0.984223	2.146101	0.561130
C	0.874934	0.440481	3.959934
C	0.023821	2.054279	-0.660257
C	0.427475	1.015653	-1.673647
O	0.499542	-0.222991	-1.460821
O	0.723088	1.524978	-2.892329
C	1.099588	0.530813	-3.978488
H	0.864025	3.118292	1.045950
H	-0.011783	3.024247	-1.159196
C	1.363109	1.348595	-5.232331
H	1.976469	-0.014201	-3.621434
H	0.260601	-0.161478	-4.079457
H	1.635895	0.667557	-6.047472
H	0.471498	1.907290	-5.533771
H	2.187934	2.051945	-5.080054
C	1.286499	1.126721	5.251813
H	-0.166979	0.111998	3.954688
H	1.519993	-0.397541	3.686651
H	1.197289	0.408765	6.075989
H	2.325130	1.468644	5.203969
H	0.640021	1.982967	5.468775

H	-0.986899	1.795186	-0.320531
H	2.031957	2.077440	0.237537

TPSS.ML08

Ti	0.072597	-1.645030	0.348693
Cl	-2.203987	-1.049062	0.447514
Cl	0.034429	-2.941390	2.199628
Cl	-0.233064	-3.226620	-1.257367
Cl	2.407294	-1.595051	0.124257
O	0.439238	0.064969	1.604555
C	0.323703	1.322697	1.562275
O	1.048683	2.090012	2.412367
C	-0.595664	2.074156	0.620186
C	1.976363	1.362309	3.369439
C	0.088924	2.347896	-0.769055
C	0.187615	1.070843	-1.578252
O	0.167972	-0.099957	-1.118137
O	0.291905	1.282169	-2.913008
C	0.396567	0.047157	-3.794418
H	-1.419834	1.373746	0.429439
C	1.462598	3.128800	-0.693669
C	0.512130	0.550830	-5.223896
H	1.271812	-0.513064	-3.457982
H	-0.501743	-0.547872	-3.615260
H	0.584546	-0.312058	-5.896875
H	-0.367171	1.137288	-5.508746
H	1.407569	1.166487	-5.356474
C	2.727954	2.438099	4.137172
H	1.346185	0.736863	4.006383
H	2.624505	0.722090	2.766869
H	3.403374	1.955307	4.853707
H	3.328205	3.058237	3.463665
H	2.039543	3.082765	4.692945
H	-0.609374	2.982485	-1.323192
C	-1.206091	3.353368	1.285003
C	1.579529	4.154393	-1.845899
H	1.428170	3.680920	0.254607
C	2.700198	2.200963	-0.668531
H	3.599957	2.791138	-0.458551
H	2.628206	1.411635	0.086429
H	2.843720	1.712066	-1.640425
H	2.517201	4.716304	-1.755423
H	1.575245	3.651510	-2.819866
H	0.750222	4.872832	-1.826105
C	-2.129697	4.126574	0.311403
C	-2.020190	2.945833	2.540577
H	-0.389286	4.014692	1.599808
H	-2.655625	4.917040	0.859530
H	-1.579214	4.609818	-0.503866
H	-2.887502	3.462612	-0.125508
H	-2.427895	3.838970	3.028573
H	-2.858386	2.294383	2.262951
H	-1.404842	2.416268	3.275710

TPSS.ML09

Cl	0.349296	1.574612	-2.301161
Ti	-0.000271	1.887183	-0.000373
Cl	1.716968	3.348209	0.262657
Cl	-1.717967	3.347605	-0.263768
Cl	-0.349738	1.575077	2.300492

O	1.355858	0.249466	0.174252
C	1.595097	-0.985652	0.232652
O	2.864050	-1.438034	0.068886
C	0.596408	-2.089778	0.510456
C	3.937232	-0.391039	-0.176637
C	-0.595707	-2.090090	-0.510226
C	-1.594740	-0.986208	-0.232698
O	-1.355882	0.248998	-0.174588
O	-2.863554	-1.438943	-0.068835
C	-3.937063	-0.392223	0.176425
H	1.134889	-3.030923	0.362031
H	-1.133896	-3.031366	-0.361569
C	-5.243727	-1.151316	0.343439
H	-3.641065	0.166738	1.066987
H	-3.932406	0.278108	-0.686304
H	-6.051849	-0.430430	0.516432
H	-5.483032	-1.728902	-0.555146
H	-5.199483	-1.831187	1.200305
C	5.244128	-1.149767	-0.343495
H	3.641046	0.167622	-1.067325
H	3.932382	0.279491	0.685935
H	6.052023	-0.428671	-0.516670
H	5.483627	-1.727068	0.555222
H	5.200080	-1.829853	-1.200201
C	-0.132555	-2.051688	-2.014647
C	0.133249	-2.051142	2.014868
C	-0.750344	-3.279254	2.339475
C	1.349290	-1.999778	2.969766
H	-0.448256	-1.133094	2.167143
C	-1.348606	-2.000942	-2.969564
H	0.448665	-1.133497	-2.167148
C	0.751424	-3.279606	-2.338940
H	1.003466	-2.019882	4.009325
H	2.014820	-2.858984	2.812000
H	1.929116	-1.079211	2.837555
H	-1.029826	-3.255242	3.399424
H	-1.676505	-3.297331	1.754852
H	-0.204314	-4.215034	2.156975
H	-1.002770	-2.021192	-4.009115
H	-2.013866	-2.860320	-2.811591
H	-1.928723	-1.080526	-2.837581
H	1.030900	-3.255777	-3.398894
H	1.677589	-3.297245	-1.754311
H	0.205687	-4.215511	-2.156202

TPSS.ML10

Ti	0.037240	0.108290	1.059101
Cl	2.251587	-0.204719	0.705254
Cl	-1.436908	-0.819647	-0.408882
Cl	-0.167160	-1.543120	2.585487
Cl	-0.682056	1.751463	2.440011
O	0.207173	1.656369	-0.424071
C	-0.781223	2.789005	-0.615442
C	-0.317341	3.480314	-1.898835
C	0.229268	2.310981	-2.754369
C	0.944019	1.418685	-1.733761
H	-1.771526	2.333028	-0.710355
H	-0.721188	3.395469	0.285574
H	0.475488	4.204042	-1.679908
H	-1.142909	4.003207	-2.390250

H	0.916544	2.650793	-3.534610
H	-0.595270	1.766456	-3.226881
H	0.875282	0.351926	-1.947437
H	1.980269	1.705770	-1.545931

TPSS.ML10-cis

Ti	0.000000	0.000000	0.848836
Cl	2.337087	-0.010370	0.593179
Cl	-2.337087	0.010369	0.593180
Cl	0.001658	-1.721656	2.359694
Cl	-0.001657	1.721655	2.359694
O	-0.025878	1.428843	-0.761268
O	0.025878	-1.428843	-0.761268
C	-0.993478	2.596746	-0.817428
C	-0.341073	3.589527	-1.785114
C	0.456418	2.679114	-2.752450
C	1.037239	1.615230	-1.817307
C	0.993478	-2.596746	-0.817428
C	0.341072	-3.589527	-1.785113
C	-0.456418	-2.679114	-2.752450
C	-1.037240	-1.615229	-1.817307
H	-1.939856	2.190972	-1.179961
H	-1.102064	2.953352	0.206203
H	0.338048	4.260845	-1.248182
H	-1.092440	4.193031	-2.302803
H	1.247351	3.221127	-3.279323
H	-0.212341	2.227310	-3.494610
H	1.200287	0.635528	-2.265194
H	1.942373	1.944879	-1.303766
H	1.939855	-2.190972	-1.179961
H	1.102064	-2.953352	0.206203
H	1.092439	-4.193032	-2.302803
H	-0.338049	-4.260845	-1.248181
H	0.212340	-2.227310	-3.494610
H	-1.247352	-3.221126	-3.279323
H	-1.200287	-0.635527	-2.265195
H	-1.942373	-1.944878	-1.303766

TPSS.ML11

Ti	-1.186798	-1.980600	0.208630
Cl	-3.315180	-1.292187	0.838133
Cl	-1.046469	-3.729186	1.641455
Cl	-1.864519	-3.005033	-1.699534
Cl	1.110495	-2.026098	-0.376622
O	-0.526194	-0.617069	1.755709
C	-0.818553	0.808320	1.455332
O	-1.078823	0.013214	-0.783536
C	-0.399378	1.059045	0.017607
H	-1.894476	0.924992	1.589765
H	-0.264269	1.441202	2.153797
H	-0.743194	2.039221	-0.331385
H	0.682471	0.953333	-0.123729
C	-0.817975	0.165174	-2.241417
H	-1.064928	1.193698	-2.521733
H	0.231229	-0.069959	-2.444162
H	-1.476591	-0.544031	-2.736031
C	0.635450	-0.852249	2.654854
H	1.553609	-0.513846	2.166927
H	0.444496	-0.317237	3.589498
H	0.663996	-1.927376	2.817286

 TPSS.ML12

Ti	-1.053460	-1.905513	0.163653
Cl	-2.392084	0.021865	0.340050
Cl	-1.635497	-2.684335	2.225118
Cl	-2.583897	-3.042586	-1.084981
Cl	0.649348	-3.491547	-0.151342
O	0.515390	-0.687848	1.042365
C	0.742433	0.750789	0.708278
O	-0.252365	-0.978397	-1.627803
C	1.126653	0.890464	-0.766426
H	-0.181153	1.280900	0.952143
H	1.556658	1.099892	1.350136
H	1.353210	1.951798	-0.946999
H	2.039517	0.317449	-0.966828
C	-0.145276	-1.720721	-2.913492
H	0.820097	-1.480940	-3.369180
H	-0.196842	-2.776655	-2.662134
H	-0.979629	-1.428935	-3.557867
C	1.316833	-1.162965	2.203065
C	0.033048	0.482802	-1.756201
H	0.365863	0.650905	-2.784675
H	-0.909686	1.004873	-1.576894
H	0.924337	-0.701173	3.113684
H	1.201490	-2.243104	2.232283
H	2.363083	-0.892609	2.031679

 TPSS.ML13

Ti	-0.778214	-2.227906	0.132594
Cl	-2.600204	-0.856284	0.699201
Cl	-0.777961	-3.315048	2.131886
Cl	-2.081039	-3.671721	-1.059164
Cl	1.233392	-3.206324	-0.588214
O	0.470901	-0.667388	0.942055
C	1.525252	0.028155	0.140087
O	-0.518966	-0.940863	-1.662516
C	1.023873	1.391173	-0.374925
H	2.403278	0.124782	0.787763
H	1.745272	-0.668096	-0.664733
H	1.212379	2.173063	0.371631
H	1.622502	1.651839	-1.259349
C	-0.447932	-1.620807	-2.991773
H	0.216784	-1.035175	-3.634460
H	-0.038359	-2.610649	-2.812079
H	-1.455903	-1.683746	-3.411781
C	0.325723	-0.119607	2.315255
C	-0.485597	1.408479	-0.709402
H	-0.759804	2.425694	-1.024555
H	-1.067010	1.189842	0.188903
H	0.106795	0.950700	2.255515
H	-0.500936	-0.653791	2.775913
H	1.260374	-0.304520	2.853351
C	-0.948972	0.491478	-1.841057
H	-2.041031	0.491079	-1.915659
H	-0.510164	0.802890	-2.796243

 TPSS.ML14

Ti	-1.248641	-1.655862	0.442880
Cl	-1.750843	0.634058	0.687676
Cl	-1.626478	-2.138727	2.639906

Cl	-3.331688	-2.135232	-0.359220
Cl	-0.377873	-3.771201	-0.080586
O	0.781894	-1.109372	0.900934
C	1.444189	0.144185	0.417382
O	-0.502368	-1.118097	-1.542675
C	1.644744	0.121486	-1.114381
H	0.795947	0.964550	0.729738
H	2.404777	0.210259	0.934444
C	2.382547	1.455621	-1.497158
C	2.505557	-1.133771	-1.529444
C	-1.219639	-1.658642	-2.733196
H	-0.542765	-1.612052	-3.590238
H	-1.466803	-2.690396	-2.492641
H	-2.123929	-1.069722	-2.907018
C	1.546397	-1.828188	1.958649
C	0.274434	0.133136	-1.823400
H	0.404782	0.185551	-2.907736
H	-0.345469	0.963825	-1.480366
H	1.445634	-1.278724	2.898698
H	1.103169	-2.817838	2.035879
H	2.589659	-1.896488	1.640420
H	2.757921	1.345603	-2.522062
C	1.567287	2.771194	-1.391361
H	3.268663	1.541731	-0.851868
C	2.451748	4.047469	-1.464845
H	0.821251	2.823120	-2.198110
H	1.007501	2.798887	-0.446593
C	1.587961	5.307045	-1.215955
H	3.200854	3.981926	-0.659139
C	3.202153	4.164425	-2.813633
H	2.207819	6.212433	-1.217465
H	0.827388	5.418364	-2.000947
H	1.071240	5.249242	-0.249635
H	3.791833	5.088855	-2.847967
H	3.889883	3.325604	-2.976215
H	2.489506	4.188730	-3.650089
C	2.564461	-1.377281	-3.058583
C	3.960256	-1.076398	-0.991303
H	2.004255	-2.001325	-1.082397
H	3.222760	-2.230029	-3.263306
H	1.584828	-1.621279	-3.480100
H	2.970041	-0.511971	-3.599685
H	4.441931	-2.049790	-1.143508
H	4.555678	-0.325555	-1.525764
H	4.017018	-0.847843	0.079612

TPSS.ML15

Ti	-0.934649	-2.122903	0.286194
Cl	-2.319074	-0.225701	0.453388
Cl	-1.254060	-2.709651	2.464853
Cl	-2.560005	-3.382649	-0.695654
Cl	0.740490	-3.740667	-0.061063
O	0.699145	-0.807299	0.835968
C	0.794796	0.621335	0.406249
O	-0.321788	-1.335518	-1.640120
C	0.993160	0.744252	-1.121288
H	-0.128702	1.105536	0.728668
H	1.655945	1.055455	0.919682
C	1.047332	2.245761	-1.463821
C	2.375156	0.266188	-1.588397

C	-0.363679	-2.179310	-2.869560
H	0.493949	-1.911477	-3.492324
H	-0.289714	-3.210130	-2.532341
H	-1.311644	-2.001779	-3.384828
C	1.628260	-1.150551	1.951516
C	-0.168048	0.122941	-1.929583
H	0.041364	0.219385	-2.997535
H	-1.122071	0.591619	-1.681530
H	1.271856	-0.668139	2.865796
H	1.602295	-2.233244	2.045781
H	2.628977	-0.808397	1.674817
C	2.296127	2.572690	-2.047495
C	2.563933	3.892812	-2.439050
C	1.577393	4.872821	-2.241724
C	0.339822	4.543807	-1.662134
C	0.065216	3.220540	-1.267151
H	3.516885	4.160318	-2.888301
H	1.773552	5.899202	-2.541135
H	-0.411694	5.315239	-1.517060
H	-0.895292	2.975467	-0.819341
C	2.925967	-1.017747	-1.540999
C	4.230574	-1.211588	-2.036084
C	4.965887	-0.138136	-2.567400
C	4.414292	1.152169	-2.615860
C	3.115890	1.352137	-2.124618
H	2.366267	-1.853648	-1.132536
H	4.670818	-2.205017	-2.005152
H	5.971342	-0.307491	-2.944624
H	4.989295	1.977491	-3.028281

M06L.M

Ti	0.000476	-0.000265	-0.000326
Cl	1.728071	-1.127007	0.777194
Cl	-1.300399	-1.352897	-1.156451
Cl	0.710781	1.628929	-1.303789
Cl	-1.138938	0.851248	1.683393

M06L.L01

O	1.210085	1.355343	0.000002
C	1.056848	0.131252	0.000000
O	-0.180693	-0.462206	-0.000001
C	2.144586	-0.890819	0.000000
C	-1.331663	0.460157	0.000001
C	-2.575548	-0.391094	-0.000001
H	-1.255763	1.099456	0.879987
H	-1.255764	1.099460	-0.879982
H	-3.461138	0.243625	0.000001
H	-2.612858	-1.028611	-0.881631
H	-2.612858	-1.028615	0.881627
H	3.108880	-0.395107	-0.000018
H	2.063287	-1.532523	0.875703
H	2.063265	-1.532548	-0.875682

M06L.L02

O	-1.449367	0.160936	1.092983
C	-0.314351	0.127785	1.588153
O	-0.104700	0.160345	2.943674
C	0.939613	0.050649	0.819693
C	-1.319532	0.237594	3.772222
C	0.854212	0.010758	-0.577808

H	-0.124819	0.038154	-1.035181
C	2.194826	0.016620	1.440637
C	3.350223	-0.056721	0.668550
C	3.259419	-0.096275	-0.723578
C	2.010350	-0.062499	-1.346194
H	1.940783	-0.093110	-2.425087
H	4.159289	-0.153253	-1.321512
H	4.318878	-0.082973	1.149304
H	2.250774	0.047783	2.518364
C	-0.867648	0.266521	5.210120
H	-1.872664	1.131816	3.483993
H	-1.944723	-0.625496	3.542209
H	-1.732565	0.324304	5.870225
H	-0.306449	-0.631676	5.462111
H	-0.233455	1.129973	5.403667

M06L.L03

O	-0.751229	1.302055	0.110934
C	0.091552	0.510746	0.546909
O	-0.204282	-0.472019	1.451622
C	1.536658	0.549431	0.228438
C	-1.617170	-0.566250	1.856341
C	1.982533	0.766345	-1.087833
C	1.073087	0.712384	-2.252743
O	1.193577	1.390818	-3.277441
O	0.112590	-0.243197	-2.077340
C	-0.993454	-0.291879	-3.042734
C	2.467881	0.499034	1.269053
C	3.822446	0.699674	1.014977
C	4.257776	0.956927	-0.284136
C	3.339680	0.986682	-1.329592
H	3.657396	1.163594	-2.347716
H	5.307416	1.123343	-0.483097
H	4.533178	0.664490	1.829279
H	2.117114	0.322023	2.276163
C	-2.251385	-0.683255	-2.282111
H	-1.080204	0.685415	-3.516774
H	-0.734848	-1.029607	-3.806409
C	-3.438558	-0.699395	-3.248254
C	-2.082045	-2.034020	-1.583222
H	-2.416723	0.087979	-1.523095
C	-1.801421	-1.881951	2.590311
H	-1.850271	0.293179	2.490389
H	-2.234130	-0.501872	0.959057
C	-3.285768	-2.064492	2.920254
H	-1.491910	-2.681225	1.909045
C	-0.937278	-1.947056	3.850622
H	-2.970619	-2.285986	-1.001135
H	-1.927814	-2.832048	-2.314236
H	-1.221869	-2.025857	-0.913706
H	-4.360876	-0.945548	-2.722044
H	-3.578020	0.267965	-3.732277
H	-3.296068	-1.449371	-4.030404
H	-1.058458	-2.904754	4.357176
H	0.117440	-1.818582	3.611440
H	-1.223189	-1.160541	4.553934
H	-3.455131	-3.017336	3.421154
H	-3.637992	-1.274605	3.587996
H	-3.903793	-2.043672	2.021242

M06L.L04

O	-1.145384	0.946385	0.357187
C	-0.278986	0.197006	0.823811
O	-0.515726	-0.628987	1.891222
C	1.126533	0.129430	0.372092
C	-1.877628	-0.564310	2.451765
C	1.469470	0.448006	-0.954891
C	0.457235	0.653917	-2.016048
O	0.488963	1.565221	-2.849019
O	-0.485425	-0.331843	-2.009632
C	-1.649936	-0.107457	-2.884053
C	2.142537	-0.128002	1.299012
C	3.480301	-0.043095	0.925071
C	3.817399	0.310624	-0.380584
C	2.813898	0.555797	-1.313425
H	3.055780	0.822454	-2.332869
H	4.855541	0.391221	-0.672161
H	4.255762	-0.239696	1.652610
H	1.868347	-0.372598	2.314534
C	-2.673172	-1.151198	-2.516406
H	-2.002779	0.908904	-2.708049
H	-1.320038	-0.178962	-3.920777
H	-3.562952	-1.036164	-3.134705
H	-2.281191	-2.156187	-2.664469
H	-2.965899	-1.046784	-1.472694
C	-1.920524	-1.526085	3.611401
H	-2.076102	0.466653	2.745852
H	-2.581225	-0.824310	1.660467
H	-2.913449	-1.522974	4.059831
H	-1.696120	-2.540311	3.286145
H	-1.200172	-1.247763	4.378782

M06L.L05

O	1.194097	0.179207	0.998314
C	0.759178	1.231268	1.482429
O	0.799920	1.496744	2.827330
C	0.148490	2.327905	0.708454
C	1.398337	0.442051	3.664467
C	0.045633	2.179954	-0.675842
H	0.408830	1.279258	-1.150121
C	-0.323554	3.497286	1.320296
C	-0.892611	4.507345	0.549754
C	-0.995026	4.359259	-0.830596
C	-0.525183	3.192452	-1.449063
C	-0.611949	2.989766	-2.907136
H	-1.434570	5.135590	-1.438425
H	-1.255826	5.408618	1.024344
H	-0.238697	3.600574	2.391504
C	1.338810	0.927456	5.090244
H	0.835445	-0.477979	3.505916
H	2.417396	0.270009	3.317485
H	1.770383	0.179723	5.754814
H	1.897279	1.853953	5.212345
H	0.310631	1.105501	5.400621
O	-1.191862	4.052227	-3.551925
O	-0.214270	1.983795	-3.507359
C	-1.311735	3.917692	-5.014427
C	-1.975246	5.174138	-5.517486
H	-0.312414	3.772329	-5.425179
H	-1.890182	3.018351	-5.226607

H	-2.088002	5.125913	-6.600061
H	-2.963386	5.298151	-5.077738
H	-1.381572	6.054206	-5.276199

M06L.L06

O	1.090352	0.234390	0.881384
C	0.687939	1.261321	1.444342
O	0.813941	1.459868	2.793453
C	0.031071	2.391766	0.762045
C	1.463855	0.367691	3.539626
C	-0.155444	2.304328	-0.623498
H	0.187691	1.416188	-1.134978
C	-0.402468	3.530159	1.454823
C	-1.015241	4.567029	0.766068
C	-1.201756	4.479592	-0.619475
C	-0.768217	3.341198	-1.312253
H	-0.916692	3.283697	-2.379771
C	-1.858624	5.610037	-1.301771
H	-1.358376	5.455170	1.277548
H	-0.253993	3.587661	2.522341
C	1.496558	0.785019	4.987504
H	0.890681	-0.544705	3.373843
H	2.458136	0.214601	3.119540
H	1.970739	0.008137	5.586322
H	2.061256	1.706647	5.116918
H	0.490689	0.944564	5.371963
O	-1.984625	5.411490	-2.650882
O	-2.261037	6.636967	-0.738814
C	-2.634539	6.503667	-3.397056
C	-2.667243	6.086339	-4.844934
H	-3.628821	6.656757	-2.976970
H	-2.061365	7.416063	-3.231273
H	-3.141423	6.863221	-5.443751
H	-1.661373	5.926794	-5.229393
H	-3.231940	5.164710	-4.974348

M06L.L07

C	-5.348379	0.627051	0.346968
C	-4.275714	-0.330570	-0.104437
O	-2.981870	0.350700	0.095327
C	-1.871036	-0.366516	-0.253929
O	-1.926910	-1.522233	-0.687232
O	1.926792	1.520800	-0.690754
C	1.870991	0.366014	-0.254970
C	0.621798	-0.437463	-0.063795
C	-0.621818	0.437382	-0.064712
H	-0.554825	1.169149	-0.873851
O	2.981881	-0.350465	0.095615
C	4.275697	0.330368	-0.105814
C	5.348443	-0.626400	0.347208
H	0.554715	-1.171065	-0.871261
H	0.705787	-1.024663	0.850170
H	-0.705699	1.026660	0.847924
H	-4.360716	-0.595774	-1.158468
H	-4.263915	-1.256659	0.470549
H	4.360448	0.593499	-1.160384
H	4.264078	1.257581	0.467362
H	-6.330153	0.171697	0.220883
H	-5.224628	0.885671	1.397086
H	-5.321550	1.546731	-0.234687

H	6.330197	-0.171305	0.220038
H	5.224910	-0.882991	1.397849
H	5.321477	-1.547198	-0.232667

M06L.L08

C	0.564190	0.977898	-2.842032
C	-0.680056	1.742455	-2.469567
O	-0.241460	3.090272	-2.054687
C	-1.218791	3.898071	-1.540191
O	-2.401216	3.538977	-1.481151
C	-0.723063	5.234997	-1.035642
C	-1.056581	5.374895	0.485565
C	-2.540840	5.185799	0.715011
O	-3.076868	4.400548	1.500411
C	0.740271	5.572392	-1.392148
C	0.895512	5.735531	-2.910171
C	1.206581	6.863194	-0.707600
C	-0.166813	4.542177	1.434136
C	-0.318458	3.022781	1.291050
C	-0.376883	4.980735	2.888712
O	-3.258220	6.058278	-0.061244
C	-4.716329	5.852360	-0.063314
C	-5.282280	6.744406	-1.138568
H	1.240493	0.899106	-1.992133
H	1.097222	1.466428	-3.656154
H	0.300805	-0.029512	-3.162396
H	-1.222731	1.295505	-1.635674
H	-1.378817	1.853214	-3.298848
H	-1.366558	5.970599	-1.530650
H	-0.870172	6.429205	0.714969
H	1.378896	4.745963	-1.065231
H	1.932828	5.952750	-3.167257
H	0.597756	4.838484	-3.448185
H	0.285701	6.570164	-3.266157
H	2.204048	7.133019	-1.055212
H	0.537773	7.693620	-0.950063
H	1.251771	6.775497	0.378298
H	0.865717	4.794395	1.165208
H	0.267168	2.521976	2.063227
H	-1.357757	2.718899	1.407051
H	0.049877	2.666574	0.329151
H	0.353282	4.499879	3.540727
H	-0.260175	6.061596	2.997170
H	-1.372137	4.707599	3.236621
H	-4.896964	4.794416	-0.253903
H	-5.098655	6.088722	0.930187
H	-5.056054	7.791482	-0.942535
H	-4.870925	6.481709	-2.111910
H	-6.365163	6.632196	-1.184705

M06L.L09

C	-1.218805	0.763639	0.863810
H	-1.545903	1.489472	1.606483
H	-0.183730	0.506135	1.078135
H	-1.835389	-0.129546	0.965639
C	-1.358603	1.327811	-0.532086
H	-1.028299	0.632563	-1.299913
H	-2.377449	1.652739	-0.741282
O	-0.464005	2.490538	-0.716204
C	-0.906709	3.686937	-0.219287

C	0.143147	4.760025	-0.353191
O	-2.022602	3.837251	0.290037
C	0.768615	4.799013	-1.766923
H	-0.382120	5.705692	-0.204330
C	1.160516	4.643070	0.827748
H	1.882428	5.452645	0.688627
C	0.506729	4.803952	2.220198
C	1.918254	3.339456	0.759886
C	1.806868	5.916495	-1.886010
H	1.258053	3.840879	-1.953656
C	-0.341084	4.990563	-2.806976
H	0.074911	5.014766	-3.814432
H	-1.075299	4.184530	-2.770655
H	-0.870020	5.932896	-2.642493
H	2.144379	6.012039	-2.918670
H	1.380650	6.879430	-1.589571
H	2.683651	5.721173	-1.270600
O	2.956824	3.403396	-0.132843
O	1.661734	2.324359	1.415476
C	3.697271	2.143814	-0.354784
C	2.938391	1.241904	-1.302729
H	4.647794	2.476731	-0.762389
H	3.855216	1.669877	0.613139
H	3.509782	0.333370	-1.492460
H	1.976839	0.961269	-0.875925
H	2.759228	1.738998	-2.255289
C	1.595566	4.880866	3.296437
C	-0.397058	6.037244	2.297328
H	-0.098650	3.910713	2.407661
H	1.149453	4.959093	4.287966
H	2.234685	3.998661	3.290244
H	2.223927	5.763109	3.146106
H	-0.716458	6.201199	3.326751
H	0.135893	6.935934	1.972140
H	-1.294473	5.926575	1.690552

M06L.L10

O	0.000001	-1.274062	-0.000103
C	1.185905	-0.421854	0.134033
C	0.731903	0.988453	-0.229977
C	-0.731902	0.988420	0.230119
C	-1.185907	-0.421834	-0.134092
H	1.541211	-0.474174	1.167627
H	1.958941	-0.819196	-0.521456
H	0.788385	1.142301	-1.309119
H	1.328898	1.759000	0.253969
H	-1.328896	1.759037	-0.253717
H	-0.788383	1.142115	1.309283
H	-1.958932	-0.819273	0.521349
H	-1.541227	-0.474003	-1.167689

M06L.L11

C	0.041242	-0.071404	0.069918
H	-0.004509	0.007670	1.151564
H	1.088533	-0.104256	-0.248030
H	-0.453872	-0.994810	-0.248160
O	-0.629493	1.090359	-0.455337
C	-0.639075	1.106874	-1.901145
C	-1.364394	2.363237	-2.315522
H	0.383762	1.109786	-2.294631

H	-1.153110	0.222542	-2.294545
O	-1.373976	2.379751	-3.761329
H	-2.387231	2.360324	-1.922035
H	-0.850359	3.247569	-1.922121
C	-2.044711	3.541514	-4.286584
H	-1.998960	3.462440	-5.368231
H	-3.092002	3.574366	-3.968636
H	-1.549597	4.464920	-3.968506

M06L.L12

C	0.015307	-0.026526	0.189357
H	-0.063874	0.112333	1.263028
H	1.072535	-0.077834	-0.092708
H	-0.470586	-0.967270	-0.091454
O	-0.636720	1.103847	-0.420612
C	-0.599733	1.038424	-1.865429
C	-1.307756	2.265334	-2.400422
H	0.444482	1.002655	-2.207915
H	-1.091789	0.116443	-2.207162
C	-1.323794	2.293198	-3.914278
H	-2.331629	2.284974	-2.026653
H	-0.812532	3.161632	-2.026520
O	-2.018201	3.494142	-4.325021
H	-0.302421	2.298370	-4.321353
H	-1.837783	1.410581	-4.321403
C	-2.087686	3.615838	-5.758653
H	-2.621345	4.538129	-5.965784
H	-1.088209	3.667310	-6.203994
H	-2.629772	2.775110	-6.205022

M06L.L13

C	0.064490	-0.111799	0.155863
H	0.010529	-0.018587	1.236133
H	1.114817	-0.150216	-0.152739
H	-0.427387	-1.040564	-0.152941
O	-0.601546	1.041990	-0.391511
C	-0.598737	1.037311	-1.839379
C	-1.317651	2.282452	-2.312288
H	0.436198	1.018247	-2.208913
H	-1.099597	0.131476	-2.208994
C	-1.369355	2.371578	-3.837712
H	-2.328748	2.280609	-1.897459
H	-0.810372	3.157228	-1.897756
C	-2.088268	3.616720	-4.310621
H	-0.358258	2.373421	-4.252541
H	-1.876633	1.496802	-4.252243
O	-2.085460	3.612040	-5.758489
H	-3.123203	3.635783	-3.941086
H	-1.587409	4.522554	-3.941006
C	-2.751495	4.765829	-6.305863
H	-2.697534	4.672617	-7.386133
H	-3.801823	4.804246	-5.997261
H	-2.259618	5.694594	-5.997059

M06L.L14

C	0.467289	0.144152	0.070987
H	0.849649	0.448679	1.040279
H	1.292629	-0.225354	-0.547500
H	-0.262798	-0.662256	0.203607
O	-0.145103	1.307703	-0.516385

C	-0.680677	1.024340	-1.831650
C	-1.412642	2.257087	-2.382215
H	0.149014	0.735368	-2.493931
H	-1.363566	0.164727	-1.770611
C	-1.390092	2.102147	-3.905253
C	-2.889216	2.326952	-1.872508
C	-0.679093	3.558491	-1.986443
O	-2.136015	3.191837	-4.494930
H	-0.356644	2.120140	-4.274933
H	-1.831709	1.143803	-4.211959
C	-2.190394	3.093733	-5.931139
H	-2.765527	3.945206	-6.281662
H	-1.187270	3.125842	-6.369470
H	-2.683644	2.166792	-6.244822
H	-3.250170	3.317480	-2.166892
C	-3.809605	1.293965	-2.532851
C	-3.000002	2.205812	-0.348163
H	-4.027069	2.399353	-0.033586
H	-2.732868	1.201509	-0.011589
H	-2.346768	2.903047	0.173562
H	-4.805063	1.342979	-2.089581
H	-3.916578	1.472022	-3.602672
H	-3.443327	0.272987	-2.387477
H	-1.269121	4.391407	-2.376354
H	-0.681917	3.635813	-0.897606
C	0.765667	3.672295	-2.476768
C	1.571481	4.766516	-1.758674
H	1.282943	2.718107	-2.329278
H	0.784834	3.879683	-3.554285
C	3.020494	4.774274	-2.251653
C	0.936475	6.148907	-1.936478
H	1.570447	4.522212	-0.688817
H	3.619002	5.515984	-1.720076
H	3.492691	3.799871	-2.114821
H	3.063160	5.017943	-3.316701
H	1.532843	6.921496	-1.448612
H	0.865004	6.403705	-2.997588
H	-0.069301	6.190166	-1.517863

M06L.L15

C	-0.523024	-0.000133	0.000004
C	-1.401143	0.170155	1.242283
C	0.436740	-1.163993	0.199439
C	0.436134	1.164221	-0.199454
O	-2.290796	1.289859	1.018928
H	-1.988444	-0.739126	1.408773
H	-0.773851	0.357760	2.121794
C	-3.181809	1.500069	2.131269
H	-3.810474	2.346786	1.872941
H	-3.808907	0.619723	2.304842
H	-2.625701	1.725812	3.046954
C	1.772914	-0.719601	0.125511
C	2.824962	-1.620546	0.286872
C	2.530847	-2.964103	0.522796
C	1.205775	-3.401851	0.596147
C	0.146661	-2.501354	0.435137
H	3.853821	-1.288572	0.231746
H	3.337392	-3.674368	0.649890
H	0.996716	-4.447961	0.777277
H	-0.879756	-2.838793	0.475724

C	1.772539	0.720533	-0.125521
C	2.824112	1.622035	-0.286879
C	2.529285	2.965435	-0.522811
C	1.203982	3.402482	-0.596172
C	0.145345	2.501426	-0.435160
H	3.853147	1.290606	-0.231745
H	3.335455	3.676126	-0.649905
H	0.994372	4.448481	-0.777310
H	-0.881252	2.838317	-0.475738
C	-1.401107	-0.170847	-1.242241
O	-2.290252	-1.290945	-1.018840
H	-1.988823	0.738167	-1.408725
H	-0.773762	-0.358180	-2.121772
C	-3.181294	-1.501486	-2.131096
H	-3.809588	-2.348465	-1.872728
H	-2.625191	-1.726974	-3.046846
H	-3.808768	-0.621388	-2.304575

M06L.ML01

Ti	0.086582	0.071611	1.368240
Cl	1.081084	1.585201	2.729262
Cl	1.357307	-1.461106	0.322734
Cl	-1.978287	0.543700	0.561768
Cl	-0.630481	-1.271378	3.021031
O	0.742510	1.357798	-0.185977
C	0.677198	2.518770	-0.663778
O	1.334176	2.814616	-1.785974
C	-0.096342	3.627358	-0.066345
C	2.123807	1.712921	-2.419264
C	2.749775	2.289945	-3.658640
H	2.850446	1.371271	-1.683453
H	1.434116	0.894485	-2.620877
H	3.338299	1.521068	-4.157090
H	1.992647	2.642885	-4.355788
H	3.410489	3.120128	-3.417688
H	-1.144899	3.336313	0.001507
H	0.247574	3.795717	0.954313
H	0.000767	4.536319	-0.647718

M06L.ML01-cis

Ti	0.000003	0.000003	1.246095
Cl	0.677265	1.596033	2.721867
Cl	2.142270	-0.894953	0.901804
Cl	-2.142264	0.894959	0.901803
Cl	-0.677258	-1.596026	2.721869
O	0.558756	1.243700	-0.371744
C	0.614693	2.444122	-0.734555
O	1.289282	2.768618	-1.846154
C	0.000670	3.582221	-0.022218
C	1.996034	1.660911	-2.550515
C	2.785829	2.294296	-3.663624
H	2.613512	1.145115	-1.816418
H	1.237225	0.963600	-2.904768
H	3.321738	1.522707	-4.214744
H	2.136457	2.822168	-4.359399
H	3.515982	3.000132	-3.273157
H	-1.009091	3.314858	0.285433
H	0.560239	3.770090	0.895406
H	0.002152	4.475405	-0.636259
O	-0.558751	-1.243698	-0.371741

C	-0.614690	-2.444120	-0.734549
O	-1.289284	-2.768620	-1.846144
C	-1.996040	-1.660914	-2.550505
C	-2.785836	-2.294302	-3.663611
H	-2.613516	-1.145119	-1.816407
H	-1.237232	-0.963603	-2.904760
H	-3.321748	-1.522714	-4.214731
H	-2.136465	-2.822174	-4.359387
H	-3.515987	-3.000139	-3.273141
C	-0.000664	-3.582218	-0.022212
H	1.009095	-3.314852	0.285441
H	-0.560234	-3.770089	0.895411
H	-0.002143	-4.475402	-0.636254

M06L.ML02

Cl	-1.834345	-2.776269	-1.465482
Ti	0.020396	-2.428684	-0.198846
Cl	0.286637	-4.612118	0.283688
Cl	2.132857	-2.203946	-1.018595
Cl	-0.328731	-1.771633	1.928308
H	-0.432411	0.820059	1.330545
C	-0.450843	1.799858	0.873612
C	-0.337986	1.908811	-0.520722
C	-0.199435	0.692079	-1.309160
O	-0.182834	-0.460335	-0.796192
O	-0.094369	0.874875	-2.629148
C	0.039633	-0.328150	-3.503485
C	-0.584975	2.946299	1.646121
C	-0.607086	4.200630	1.034118
C	-0.494646	4.312609	-0.353953
C	-0.360115	3.171732	-1.133739
H	-0.272222	3.242638	-2.207313
H	-0.512362	5.286609	-0.822516
H	-0.711945	5.091911	1.637759
H	-0.672061	2.863144	2.720162
C	0.173882	0.180786	-4.912364
H	0.913495	-0.882631	-3.163278
H	-0.847751	-0.940659	-3.349972
H	0.273882	-0.664743	-5.591259
H	-0.701700	0.753668	-5.211282
H	1.054871	0.809853	-5.022914

M06L.ML03

Ti	-0.104942	-1.730786	0.000000
Cl	-2.165120	-0.579375	0.000000
Cl	-0.606517	-3.042992	1.769472
Cl	-0.606516	-3.042992	-1.769473
Cl	2.183542	-2.167240	0.000000
O	0.485935	-0.170588	1.313083
C	0.426388	1.051676	1.557088
O	0.897424	1.509677	2.730739
C	-0.151018	2.111337	0.708480
C	1.418905	0.478594	3.673883
C	-0.151018	2.111336	-0.708482
C	0.426388	1.051676	-1.557089
O	0.485935	-0.170588	-1.313084
O	0.897424	1.509676	-2.730740
C	1.418904	0.478592	-3.673884
C	-0.727080	3.195905	1.383542
C	-1.325501	4.244135	0.695408

C	-1.325501	4.244135	-0.695410
C	-0.727080	3.195905	-1.383544
H	-0.708040	3.195554	-2.462004
H	-1.784159	5.053972	-1.244668
H	-1.784159	5.053972	1.244666
H	-0.708039	3.195554	2.462002
C	1.911443	1.199572	-4.912510
H	2.214451	-0.064673	-3.160684
H	0.606616	-0.218352	-3.879845
C	2.349959	0.149940	-5.939588
H	1.071692	1.766093	-5.327619
C	3.051077	2.166520	-4.586620
C	1.911444	1.199574	4.912508
H	0.606618	-0.218350	3.879845
H	2.214452	-0.064672	3.160683
C	2.349961	0.149943	5.939587
C	3.051079	2.166522	4.586617
H	1.071694	1.766095	5.327617
H	3.388154	2.682608	5.485328
H	3.906322	1.626594	4.173455
H	2.743854	2.916825	3.859462
H	2.684117	0.632248	6.857365
H	1.538976	-0.532595	6.194622
H	3.181856	-0.445325	5.557491
H	2.684115	0.632245	-6.857367
H	3.181855	-0.445328	-5.557492
H	1.538975	-0.532598	-6.194622
H	3.388151	2.682606	-5.485332
H	2.743852	2.916823	-3.859466
H	3.906321	1.626592	-4.173458

M06L.ML04

Cl	-2.230898	-0.585688	-0.000001
Ti	-0.174969	-1.742456	-0.000001
Cl	-0.678203	-3.052848	1.770200
Cl	-0.678202	-3.052846	-1.770202
Cl	2.113016	-2.183792	0.000000
O	0.420071	-0.183306	1.311873
C	0.370545	1.038844	1.558321
O	0.839143	1.488546	2.737005
C	-0.190946	2.106105	0.708696
C	1.344192	0.443543	3.678336
C	-0.190945	2.106106	-0.708695
C	0.370546	1.038844	-1.558321
O	0.420072	-0.183305	-1.311873
O	0.839145	1.488546	-2.737005
C	1.344194	0.443543	-3.678335
C	-0.752246	3.198649	1.383376
C	-1.336066	4.255093	0.695366
C	-1.336065	4.255093	-0.695365
C	-0.752245	3.198649	-1.383376
H	-0.733169	3.198127	-2.461731
H	-1.783388	5.071185	-1.244643
H	-1.783389	5.071184	1.244644
H	-0.733171	3.198126	2.461731
C	1.798916	1.164734	-4.917265
H	2.143726	-0.092253	-3.168570
H	0.528915	-0.256865	-3.855583
H	2.186666	0.440888	-5.632507
H	0.977204	1.699754	-5.389575

H	2.590761	1.876468	-4.692147
C	1.798918	1.164735	4.917264
H	0.528913	-0.256864	3.855586
H	2.143723	-0.092254	3.168570
H	2.186668	0.440889	5.632506
H	2.590763	1.876468	4.692144
H	0.977207	1.699757	5.389575

M06L.ML05

Cl	-1.845042	-2.702391	-1.539402
Ti	0.012374	-2.407011	-0.265379
Cl	0.253244	-4.600050	0.175708
Cl	2.121569	-2.185194	-1.088923
Cl	-0.324723	-1.784203	1.874383
H	-0.405176	0.811302	1.337286
C	-0.440002	1.801415	0.903741
C	-0.343334	1.943236	-0.489370
C	-0.197761	0.744132	-1.307214
O	-0.171865	-0.417261	-0.818252
O	-0.095650	0.959653	-2.621115
C	0.049588	-0.221325	-3.524452
C	-0.578912	2.927796	1.706118
C	-0.623040	4.191902	1.126120
C	-0.528379	4.340152	-0.264779
C	-0.387395	3.214585	-1.074808
H	-0.313957	3.325710	-2.144590
C	-0.584688	5.706168	-0.822962
H	-0.731060	5.082631	1.728936
H	-0.652656	2.819043	2.778496
C	0.177551	0.322549	-4.920638
H	0.929120	-0.774740	-3.197183
H	-0.831786	-0.845674	-3.384620
H	0.285132	-0.505781	-5.619286
H	-0.703867	0.893775	-5.205057
H	1.052127	0.962762	-5.016757
O	-0.490151	5.720096	-2.186083
O	-0.705187	6.734004	-0.145171
C	-0.541821	7.054200	-2.816244
C	-0.423304	6.841641	-4.303166
H	-1.480719	7.526925	-2.528105
H	0.271560	7.652516	-2.405877
H	-0.456508	7.801643	-4.816880
H	0.516137	6.353415	-4.556230
H	-1.240193	6.227525	-4.678038

M06L.ML06

Cl	-1.844218	-2.731217	-1.518834
Ti	0.020646	-2.450612	-0.251684
Cl	0.258042	-4.646826	0.172927
Cl	2.127080	-2.226191	-1.081701
Cl	-0.305891	-1.837413	1.890044
H	-0.417500	0.768780	1.365901
C	-0.450503	1.758577	0.931984
C	-0.344017	1.904632	-0.459433
C	-0.192271	0.707416	-1.280434
O	-0.161707	-0.454897	-0.795853
O	-0.090454	0.928184	-2.594127
C	0.060486	-0.249739	-3.500818
C	-0.597095	2.881415	1.731123
C	-0.639661	4.155521	1.151791

C	-0.532594	4.300777	-0.238261
C	-0.384764	3.181017	-1.042168
H	-0.301188	3.279021	-2.113867
H	-0.567010	5.289201	-0.669735
C	-0.800262	5.319425	2.049392
H	-0.681150	2.796655	2.804856
C	0.165280	0.296766	-4.897887
H	0.950822	-0.791379	-3.183267
H	-0.810690	-0.886240	-3.351792
H	0.276337	-0.529429	-5.598484
H	-0.727315	0.855535	-5.172102
H	1.029825	0.948981	-5.003742
O	-0.837681	6.503906	1.369626
O	-0.892807	5.245360	3.280409
C	-0.998705	7.712869	2.202112
C	-1.029297	8.891063	1.263654
H	-1.917017	7.604160	2.779092
H	-0.166777	7.750058	2.905421
H	-1.147310	9.812640	1.832295
H	-0.106164	8.961161	0.691116
H	-1.860489	8.814554	0.564951

M06L.ML07

Cl	-1.443374	-0.808870	-1.165737
Ti	0.521414	-1.440206	-0.037964
Cl	-0.476683	-2.799501	1.460300
Cl	1.209807	-2.934854	-1.580583
Cl	2.571366	-1.279511	1.101457
O	0.043029	0.260420	1.188505
C	0.690057	1.253903	1.594164
O	0.922522	1.455949	2.886515
C	1.263126	2.296785	0.690756
C	0.516923	0.347175	3.814990
C	0.561480	2.380798	-0.665232
C	0.926997	1.270809	-1.596087
O	1.357947	0.156539	-1.217591
O	0.754752	1.552621	-2.882995
C	0.940751	0.412937	-3.843086
H	1.236330	3.257540	1.200507
H	0.770335	3.331404	-1.151151
C	0.546529	0.926647	-5.199296
H	1.983518	0.106408	-3.776166
H	0.314787	-0.404213	-3.485653
H	0.667692	0.131054	-5.932996
H	-0.494833	1.241447	-5.211622
H	1.167068	1.767392	-5.503766
C	1.009146	0.731087	5.182009
H	-0.566100	0.255419	3.748254
H	0.967870	-0.566129	3.427939
H	0.734958	-0.046973	5.892941
H	2.092271	0.832853	5.194351
H	0.568416	1.668257	5.516792
H	-0.524662	2.328486	-0.539836
H	2.320333	2.044118	0.562649

M06L.ML08

Ti	-0.124039	-1.618544	0.327276
Cl	-2.360575	-1.033797	0.686247
Cl	0.067233	-2.963601	2.119780
Cl	-0.545186	-3.119183	-1.314897

Cl	2.189554	-1.473276	-0.112422
O	0.331979	0.074841	1.572585
C	0.232742	1.322185	1.528771
O	1.018379	2.080984	2.308222
C	-0.711943	2.085064	0.643173
C	2.039278	1.363272	3.129795
C	-0.068375	2.373220	-0.741269
C	0.024167	1.110101	-1.546720
O	-0.167313	-0.037871	-1.099316
O	0.338076	1.300653	-2.832956
C	0.560868	0.064800	-3.650554
H	-1.549045	1.402647	0.468599
C	1.297301	3.131991	-0.674354
C	1.085786	0.525446	-4.982308
H	1.259899	-0.563640	-3.098714
H	-0.392312	-0.458058	-3.712078
H	1.270445	-0.339897	-5.617001
H	0.372405	1.172935	-5.488716
H	2.023543	1.067138	-4.868191
C	2.957295	2.418284	3.683661
H	1.501725	0.806372	3.896005
H	2.539669	0.647976	2.476838
H	3.725200	1.947788	4.295803
H	3.451725	2.965148	2.882079
H	2.416441	3.130672	4.303788
H	-0.770477	3.014060	-1.278785
C	-1.264137	3.344927	1.354384
C	1.447186	4.114443	-1.837581
H	1.262698	3.704536	0.258707
C	2.499383	2.183306	-0.611002
H	3.407953	2.738299	-0.378243
H	2.389577	1.394572	0.134679
H	2.657210	1.686367	-1.571137
H	2.381399	4.669678	-1.749907
H	1.458707	3.587041	-2.792298
H	0.628805	4.836106	-1.859504
C	-2.180857	4.160803	0.439311
C	-2.031310	2.911948	2.610092
H	-0.420609	3.970850	1.660315
H	-2.672397	4.947525	1.010994
H	-1.641837	4.646396	-0.374962
H	-2.963155	3.533440	0.005081
H	-2.411426	3.780184	3.147527
H	-2.881783	2.281261	2.342708
H	-1.403258	2.347026	3.299678

M06L.ML09

Cl	0.760995	1.487418	-2.202354
Ti	-0.000251	1.817140	-0.000357
Cl	1.654437	3.245940	0.568473
Cl	-1.655376	3.245312	-0.569496
Cl	-0.761388	1.487659	2.201717
O	1.282027	0.173494	0.404224
C	1.539852	-1.046112	0.321374
O	2.782180	-1.458593	0.044766
C	0.552943	-2.153317	0.548318
C	3.791066	-0.381668	-0.221064
C	-0.552254	-2.153598	-0.548147
C	-1.539488	-1.046638	-0.321435
O	-1.282028	0.173025	-0.404578

O	-2.781683	-1.459427	-0.044691
C	-3.790883	-0.382748	0.220938
H	1.101007	-3.092084	0.449730
H	-1.100039	-3.092506	-0.449359
C	-5.053231	-1.075744	0.653609
H	-3.367517	0.273726	0.980884
H	-3.899566	0.187088	-0.701260
H	-5.822669	-0.331626	0.853773
H	-5.422670	-1.747866	-0.118614
H	-4.893956	-1.650275	1.564345
C	5.053641	-1.074377	-0.653531
H	3.367531	0.274511	-0.981170
H	3.899541	0.188405	0.701013
H	5.822862	-0.330070	-0.853828
H	5.423252	-1.746217	0.118855
H	4.894577	-1.649157	-1.564147
C	0.020253	-2.070415	-1.990277
C	-0.019583	-2.070000	1.990434
C	-0.914924	-3.275840	2.282385
C	1.111038	-1.968208	3.017150
H	-0.613177	-1.151096	2.060672
C	-1.110396	-1.969244	-3.017022
H	0.613531	-1.151323	-2.060718
C	0.916011	-3.276013	-2.281947
H	0.704312	-1.943571	4.027119
H	1.787137	-2.824166	2.946447
H	1.695135	-1.055691	2.886519
H	-1.281670	-3.226744	3.307444
H	-1.784367	-3.318999	1.626495
H	-0.358331	-4.210442	2.175433
H	-0.703673	-1.944684	-4.026993
H	-1.786197	-2.825422	-2.946136
H	-1.694814	-1.056902	-2.886592
H	1.282735	-3.227031	-3.307019
H	1.785472	-3.318717	-1.626051
H	0.359743	-4.210783	-2.174772

M06L.ML10

Ti	0.018904	0.107987	1.022524
Cl	2.228943	-0.216060	0.722066
Cl	-1.423711	-0.676726	-0.546418
Cl	-0.282027	-1.602953	2.452542
Cl	-0.708669	1.720482	2.415135
O	0.280632	1.717252	-0.395387
C	-0.715860	2.811215	-0.583555
C	-0.345008	3.441003	-1.913160
C	0.193580	2.253718	-2.719078
C	0.984204	1.465389	-1.691282
H	-1.703954	2.346915	-0.598257
H	-0.627461	3.462748	0.278719
H	0.429008	4.196876	-1.776715
H	-1.202608	3.913802	-2.385335
H	0.814520	2.558606	-3.557887
H	-0.630181	1.650939	-3.102946
H	0.984486	0.391438	-1.858537
H	2.006495	1.815681	-1.557734

M06L.ML10-cis

Ti	0.000000	0.000000	0.956480
Cl	2.329013	-0.019387	0.673194

Cl	-2.329013	0.019387	0.673190
Cl	0.005763	-1.749370	2.413324
Cl	-0.005766	1.749369	2.413325
O	-0.009791	1.378527	-0.689386
O	0.009792	-1.378525	-0.689388
C	-0.965046	2.516815	-0.811892
C	-0.351520	3.413360	-1.873495
C	0.393168	2.421311	-2.776762
C	0.998092	1.453696	-1.776776
C	0.965047	-2.516813	-0.811894
C	0.351521	-3.413360	-1.873495
C	-0.393170	-2.421311	-2.776762
C	-0.998092	-1.453697	-1.776776
H	-1.922748	2.090046	-1.107501
H	-1.056240	2.957113	0.177427
H	0.350577	4.116625	-1.424734
H	-1.109883	3.982348	-2.405814
H	1.155160	2.897307	-3.389259
H	-0.306879	1.909008	-3.439848
H	1.150917	0.437847	-2.134065
H	1.925110	1.817381	-1.336560
H	1.922749	-2.090045	-1.107504
H	1.056242	-2.957111	0.177426
H	1.109883	-3.982348	-2.405814
H	-0.350576	-4.116625	-1.424732
H	0.306876	-1.909009	-3.439849
H	-1.155162	-2.897309	-3.389257
H	-1.150919	-0.437847	-2.134066
H	-1.925110	-1.817381	-1.336558

M06L.ML11

Ti	-1.216704	-1.987295	0.215490
Cl	-3.324169	-1.278579	0.844677
Cl	-1.043835	-3.712062	1.656255
Cl	-1.877306	-2.980207	-1.701815
Cl	1.082303	-1.978837	-0.365589
O	-0.561051	-0.612863	1.769641
C	-0.847827	0.790767	1.458176
O	-1.099865	0.022740	-0.765270
C	-0.412926	1.033434	0.037699
H	-1.921869	0.909796	1.574602
H	-0.316835	1.431165	2.160250
H	-0.713513	2.022184	-0.312163
H	0.666148	0.902429	-0.088728
C	-0.786370	0.149471	-2.190457
H	-0.972493	1.178629	-2.494954
H	0.253764	-0.130502	-2.361284
H	-1.449521	-0.528594	-2.712358
C	0.636274	-0.827926	2.583486
H	1.518255	-0.454662	2.063426
H	0.492808	-0.325926	3.538987
H	0.719130	-1.899835	2.720770

M06L.ML12

Ti	-1.134529	-1.903423	0.187102
Cl	-2.495551	-0.021124	0.376392
Cl	-1.627429	-2.755222	2.228765
Cl	-2.578184	-3.112071	-1.074204
Cl	0.703390	-3.326593	-0.187297
O	0.363604	-0.620049	1.122414

C	0.637978	0.767511	0.713260
O	-0.427808	-0.919171	-1.628871
C	1.062519	0.834860	-0.741940
H	-0.282323	1.321438	0.891534
H	1.419593	1.146476	1.370633
H	1.394169	1.855347	-0.948500
H	1.917631	0.176645	-0.915972
C	0.003992	-1.696740	-2.792413
H	1.089563	-1.792559	-2.790554
H	-0.452385	-2.674879	-2.706210
H	-0.347572	-1.192289	-3.691438
C	1.381204	-1.172505	2.018913
C	-0.058319	0.503934	-1.709648
H	0.238536	0.699228	-2.739402
H	-0.964586	1.063625	-1.484316
H	1.514787	-0.483537	2.851922
H	1.006329	-2.124536	2.373465
H	2.313465	-1.319957	1.473999

M06L.ML13

Ti	-0.650400	-2.179674	0.037406
Cl	-2.556432	-1.001080	0.716822
Cl	-0.429522	-3.400631	1.940441
Cl	-1.769664	-3.752050	-1.161414
Cl	1.472293	-2.683209	-0.812936
O	0.402146	-0.542493	1.035305
C	1.538635	0.248977	0.517005
O	-0.753482	-0.860465	-1.701897
C	1.167963	0.927740	-0.794960
H	1.755748	0.990984	1.286895
H	2.388365	-0.423169	0.412362
H	1.850948	1.767983	-0.928509
H	1.353937	0.237747	-1.617789
C	-0.574131	-1.421237	-3.045508
H	0.106835	-0.780407	-3.605556
H	-0.145948	-2.408200	-2.931483
H	-1.544230	-1.483272	-3.537208
C	0.138798	-0.278995	2.454076
C	-0.298768	1.401996	-0.816386
H	-0.369002	2.434947	-1.160471
H	-0.717450	1.376459	0.189509
H	0.063133	0.798183	2.601841
H	-0.800827	-0.754631	2.702454
H	0.947026	-0.698882	3.051751
C	-1.169357	0.558587	-1.738780
H	-2.222831	0.598878	-1.468151
H	-1.049353	0.873160	-2.776576

M06L.ML14

Ti	-1.221670	-1.673484	0.441060
Cl	-1.805666	0.585548	0.665698
Cl	-1.582209	-2.220649	2.612129
Cl	-3.247640	-2.260086	-0.402065
Cl	-0.181743	-3.692294	-0.144567
O	0.760007	-1.009027	0.960998
C	1.394469	0.214772	0.436777
O	-0.477496	-1.074387	-1.545887
C	1.611109	0.164582	-1.079940
H	0.731809	1.029454	0.719313
H	2.344111	0.328625	0.959349

C	2.362216	1.463992	-1.473620
C	2.437976	-1.105739	-1.457487
C	-1.173922	-1.613636	-2.717354
H	-0.531168	-1.500759	-3.589218
H	-1.353734	-2.663837	-2.514147
H	-2.116668	-1.087479	-2.862444
C	1.656510	-1.868656	1.740412
C	0.262127	0.172805	-1.802943
H	0.413788	0.242101	-2.881237
H	-0.366096	1.000378	-1.474659
H	2.222090	-1.240303	2.427329
H	1.029644	-2.560061	2.290620
H	2.318301	-2.416919	1.071676
H	2.752087	1.337723	-2.487711
C	1.556549	2.767714	-1.398869
H	3.240953	1.556918	-0.825546
C	2.435356	4.028936	-1.445559
H	0.839391	2.816890	-2.226680
H	0.958638	2.796429	-0.482074
C	1.570027	5.282108	-1.294089
H	3.127015	3.981537	-0.594338
C	3.264481	4.098533	-2.731709
H	2.181304	6.185104	-1.278324
H	0.871026	5.371376	-2.129357
H	0.985148	5.255406	-0.373762
H	3.849612	5.017773	-2.769415
H	3.959713	3.262675	-2.819416
H	2.612754	4.085631	-3.609586
C	2.492213	-1.375425	-2.964850
C	3.869197	-1.060772	-0.906295
H	1.910605	-1.952592	-1.005529
H	3.151120	-2.220212	-3.165038
H	1.516191	-1.632901	-3.372921
H	2.882987	-0.520723	-3.522835
H	4.345641	-2.033702	-1.030649
H	4.478193	-0.330202	-1.442693
H	3.915128	-0.811650	0.155083

M06L.ML15

Ti	-0.917342	-2.125229	0.282385
Cl	-2.302139	-0.240453	0.455327
Cl	-1.179838	-2.706426	2.458779
Cl	-2.507306	-3.386803	-0.729287
Cl	0.789129	-3.696098	-0.093229
O	0.707517	-0.781037	0.811916
C	0.779039	0.629876	0.398743
O	-0.310354	-1.304196	-1.638528
C	0.967025	0.757876	-1.115712
H	-0.138343	1.112422	0.731401
H	1.633841	1.077650	0.904934
C	1.034749	2.241846	-1.460172
C	2.333084	0.266252	-1.572662
C	-0.299862	-2.138268	-2.844794
H	0.573772	-1.875791	-3.440070
H	-0.233336	-3.167666	-2.513905
H	-1.221919	-1.976265	-3.401551
C	1.659665	-1.132999	1.870641
C	-0.179520	0.135163	-1.917301
H	0.025724	0.246320	-2.981745
H	-1.134475	0.599863	-1.676884

H	1.337529	-0.682324	2.808407
H	1.656692	-2.213665	1.948139
H	2.647689	-0.779012	1.579398
C	2.281225	2.555641	-2.036611
C	2.556735	3.865126	-2.428135
C	1.580976	4.845154	-2.238452
C	0.346381	4.528105	-1.666333
C	0.063903	3.215995	-1.270988
H	3.509110	4.123087	-2.872241
H	1.783339	5.864493	-2.538481
H	-0.396460	5.301602	-1.527732
H	-0.894851	2.973898	-0.827249
C	2.862253	-1.016627	-1.516759
C	4.158965	-1.227964	-2.000714
C	4.905659	-0.171898	-2.528542
C	4.374857	1.117603	-2.585568
C	3.084247	1.335768	-2.105745
H	2.288108	-1.838637	-1.108043
H	4.584571	-2.221688	-1.963562
H	5.906102	-0.355165	-2.897136
H	4.959421	1.930593	-2.996012

M06.M

Ti	0.000117	-0.000037	-0.000183
Cl	1.718752	-1.120988	0.772812
Cl	-1.293234	-1.346031	-1.150548
Cl	0.707344	1.620207	-1.297127
Cl	-1.132988	0.846856	1.675067

M06.L01

O	1.228257	1.351593	0.000000
C	1.056593	0.137629	0.000000
O	-0.178884	-0.434366	0.000000
C	2.130510	-0.894374	0.000000
C	-1.328692	0.467056	0.000000
C	-2.561356	-0.396999	0.000000
H	-1.267609	1.107939	0.880720
H	-1.267609	1.107940	-0.880719
H	-3.456511	0.225469	0.000001
H	-2.586250	-1.034986	-0.882553
H	-2.586250	-1.034987	0.882553
H	3.099842	-0.406614	-0.000012
H	2.039320	-1.533757	0.877315
H	2.039305	-1.533774	-0.877300

M06.L02

O	-1.445313	0.160660	1.080429
C	-0.322646	0.128888	1.583145
O	-0.127365	0.162661	2.928465
C	0.936167	0.051492	0.819944
C	-1.319478	0.238829	3.765962
C	0.854661	0.010006	-0.572828
H	-0.122037	0.036475	-1.035858
C	2.183876	0.018858	1.444706
C	3.339005	-0.054818	0.678340
C	3.254228	-0.096174	-0.709914
C	2.011091	-0.063698	-1.334975
H	1.945519	-0.095843	-2.413759
H	4.156237	-0.153681	-1.304260
H	4.305500	-0.080133	1.162703

H	2.238617	0.051237	2.522668
C	-0.849510	0.263688	5.195989
H	-1.878361	1.135406	3.494179
H	-1.952077	-0.623092	3.549175
H	-1.704688	0.320343	5.869914
H	-0.284531	-0.636829	5.433661
H	-0.210800	1.126962	5.378856

M06.L03

O	-0.866723	1.045906	0.173366
C	-0.015711	0.290300	0.635800
O	-0.294140	-0.627602	1.596449
C	1.421760	0.313018	0.284964
C	-1.666231	-0.682243	2.083652
C	1.841813	0.694914	-0.996048
C	0.898952	0.898098	-2.119681
O	0.956163	1.831057	-2.913543
O	-0.002772	-0.107050	-2.204371
C	-1.155056	0.103163	-3.069953
C	2.375388	0.069562	1.271804
C	3.727790	0.230349	1.000462
C	4.138975	0.643816	-0.260759
C	3.196278	0.876408	-1.253473
H	3.497003	1.192589	-2.242979
H	5.190156	0.781207	-0.472755
H	4.457487	0.043902	1.776130
H	2.044796	-0.227481	2.256639
C	-2.181963	-0.956591	-2.733125
H	-1.537857	1.109849	-2.888121
H	-0.835656	0.034362	-4.114257
C	-3.457411	-0.678237	-3.524902
C	-1.652985	-2.356244	-3.026539
H	-2.396324	-0.866280	-1.662335
C	-1.730076	-1.713794	3.189877
H	-1.952974	0.308852	2.448531
H	-2.322776	-0.938023	1.249090
C	-3.184038	-1.872042	3.629553
H	-1.373774	-2.664778	2.780739
C	-0.848172	-1.315719	4.368566
H	-2.393153	-3.114309	-2.763775
H	-1.433395	-2.459579	-4.093822
H	-0.738232	-2.559928	-2.470917
H	-4.223884	-1.419017	-3.293049
H	-3.863136	0.310628	-3.303862
H	-3.259885	-0.731611	-4.599693
H	-0.899170	-2.064206	5.160988
H	0.193625	-1.206425	4.067829
H	-1.184948	-0.362046	4.786505
H	-3.268095	-2.622186	4.416691
H	-3.568062	-0.928548	4.028224
H	-3.827766	-2.176470	2.802141

M06.L04

O	-1.144640	0.937684	0.330388
C	-0.289268	0.202873	0.819505
O	-0.536207	-0.596265	1.888782
C	1.118490	0.130210	0.373046
C	-1.883975	-0.547296	2.449550
C	1.460536	0.445179	-0.948795
C	0.448047	0.676282	-2.005926

O	0.465823	1.622546	-2.785768
O	-0.464390	-0.321543	-2.054859
C	-1.654200	-0.085555	-2.867431
C	2.129051	-0.139749	1.294459
C	3.463489	-0.070860	0.917109
C	3.800026	0.277347	-0.385263
C	2.799335	0.536425	-1.312673
H	3.042825	0.804762	-2.331648
H	4.838097	0.344372	-0.679813
H	4.238470	-0.277127	1.642163
H	1.857540	-0.384486	2.310633
C	-2.625534	-1.187098	-2.538163
H	-2.042894	0.900907	-2.609372
H	-1.364968	-0.075593	-3.919012
H	-3.543437	-1.065187	-3.113788
H	-2.200596	-2.163514	-2.768251
H	-2.877230	-1.161516	-1.477965
C	-1.906987	-1.496070	3.617874
H	-2.101994	0.481556	2.739364
H	-2.591868	-0.829253	1.668779
H	-2.898030	-1.506130	4.072086
H	-1.664811	-2.508719	3.298291
H	-1.185649	-1.195294	4.376695

M06.L05

O	1.190820	0.178698	0.986458
C	0.759707	1.221039	1.473957
O	0.803731	1.477642	2.808237
C	0.147017	2.318636	0.700767
C	1.394772	0.448438	3.658204
C	0.045560	2.170782	-0.679379
H	0.410387	1.269989	-1.154122
C	-0.324602	3.482357	1.311358
C	-0.892990	4.488424	0.541876
C	-0.994573	4.342048	-0.834922
C	-0.524331	3.180035	-1.449802
C	-0.608998	2.976370	-2.908986
H	-1.435284	5.119724	-1.440838
H	-1.257593	5.388695	1.016294
H	-0.241645	3.588432	2.382793
C	1.331183	0.958585	5.073030
H	0.834279	-0.477370	3.521852
H	2.417401	0.268421	3.324021
H	1.761595	0.224499	5.754539
H	1.888409	1.889028	5.175099
H	0.300144	1.141635	5.373139
O	-1.181798	4.026551	-3.554811
O	-0.211459	1.974417	-3.498946
C	-1.309829	3.917950	-5.004958
C	-1.967099	5.184957	-5.483171
H	-0.315627	3.776026	-5.430738
H	-1.898321	3.028822	-5.235102
H	-2.087752	5.157352	-6.566353
H	-2.951109	5.305450	-5.031713
H	-1.363649	6.055110	-5.227632

M06.L06

O	1.083885	0.241035	0.860301
C	0.688211	1.256388	1.430364
O	0.818732	1.441879	2.768552

C	0.029685	2.392169	0.754009
C	1.459507	0.370505	3.525949
C	-0.157456	2.310966	-0.626353
H	0.183911	1.426416	-1.145478
C	-0.400914	3.522252	1.450871
C	-1.013233	4.560390	0.768924
C	-1.200373	4.479187	-0.611438
C	-0.769775	3.349103	-1.308300
H	-0.918255	3.293983	-2.376113
C	-1.858899	5.614969	-1.287793
H	-1.354600	5.444940	1.288050
H	-0.252433	3.577372	2.518684
C	1.483664	0.806454	4.966447
H	0.889950	-0.547651	3.375954
H	2.459315	0.210233	3.120207
H	1.954731	0.039066	5.581070
H	2.046645	1.731746	5.082100
H	0.473285	0.971281	5.338556
O	-1.989418	5.429478	-2.625982
O	-2.254572	6.630321	-0.717730
C	-2.630190	6.500854	-3.383379
C	-2.654345	6.064906	-4.823878
H	-3.629998	6.661126	-2.977639
H	-2.060632	7.419009	-3.233382
H	-3.125409	6.832295	-5.438501
H	-1.643965	5.900078	-5.195984
H	-3.217327	5.139615	-4.939532

M06.L07

C	-5.341744	0.681921	-0.000208
C	-4.267940	-0.372952	0.000779
O	-2.985481	0.327990	-0.000064
C	-1.861900	-0.433842	0.000617
O	-1.885782	-1.661238	0.001889
O	1.885782	1.661239	-0.001914
C	1.861900	0.433842	-0.000626
C	0.633002	-0.416345	0.000381
C	-0.633002	0.416346	-0.000382
H	-0.666372	1.080690	-0.866439
O	2.985481	-0.327990	0.000069
C	4.267940	0.372952	-0.000781
C	5.341744	-0.681922	0.000222
H	0.666216	-1.082515	-0.864279
H	0.666374	-1.080688	0.866439
H	-0.666218	1.082512	0.864279
H	-4.312199	-1.015788	-0.879489
H	-4.312033	-1.013972	0.882380
H	4.312035	1.013960	-0.882391
H	4.312198	1.015800	0.879479
H	-6.326743	0.214507	0.000375
H	-5.261397	1.316222	0.881587
H	-5.261572	1.314393	-0.883332
H	6.326742	-0.214507	-0.000365
H	5.261570	-1.314381	0.883355
H	5.261398	-1.316234	-0.881564

M06.L08

C	0.651596	0.933101	-2.652816
C	-0.618391	1.706417	-2.418875
O	-0.221059	3.059528	-2.030414

C	-1.207724	3.889642	-1.609136
O	-2.392564	3.561947	-1.638176
C	-0.732375	5.219902	-1.077467
C	-1.071990	5.323503	0.442005
C	-2.554788	5.123609	0.656423
O	-3.089342	4.281259	1.368031
C	0.717105	5.593766	-1.430049
C	0.865014	5.746378	-2.946389
C	1.132167	6.909964	-0.769947
C	-0.181580	4.493750	1.385556
C	-0.299130	2.974773	1.236210
C	-0.413632	4.914073	2.838897
O	-3.265725	6.054505	-0.034700
C	-4.713061	5.870785	-0.078685
C	-5.263960	6.942328	-0.981342
H	1.254266	0.903809	-1.745084
H	1.246489	1.389241	-3.443207
H	0.419231	-0.091435	-2.943902
H	-1.223400	1.285727	-1.613341
H	-1.246663	1.770246	-3.307916
H	-1.383800	5.957836	-1.561192
H	-0.902445	6.377235	0.690667
H	1.385238	4.795577	-1.092989
H	1.894825	5.998207	-3.205690
H	0.598820	4.834934	-3.478694
H	0.224846	6.558473	-3.304616
H	2.113924	7.216257	-1.134879
H	0.423044	7.704304	-1.023784
H	1.193376	6.845298	0.317415
H	0.850345	4.766880	1.134982
H	0.281072	2.488560	2.023271
H	-1.334764	2.650073	1.332859
H	0.098471	2.627145	0.281818
H	0.329167	4.449121	3.489624
H	-0.329934	5.997988	2.956854
H	-1.401809	4.605148	3.180085
H	-4.908334	4.865129	-0.454659
H	-5.105909	5.935692	0.936804
H	-5.023249	7.934161	-0.599700
H	-4.848803	6.850129	-1.984202
H	-6.348642	6.854288	-1.049487

M06.L09

C	-1.247560	0.786582	0.899356
H	-1.671759	1.521562	1.583088
H	-0.226360	0.578036	1.214721
H	-1.837012	-0.128196	0.973027
C	-1.268344	1.303068	-0.519706
H	-0.853825	0.585943	-1.224796
H	-2.272023	1.587238	-0.836181
O	-0.393547	2.469287	-0.651326
C	-0.882265	3.677365	-0.269607
C	0.168442	4.748867	-0.353046
O	-2.041784	3.850104	0.095869
C	0.788623	4.835900	-1.763370
H	-0.365568	5.689205	-0.195263
C	1.167592	4.610533	0.831881
H	1.901331	5.414480	0.709831
C	0.508285	4.787912	2.214833
C	1.924587	3.306499	0.772780

C	1.757859	6.011002	-1.861877
H	1.328170	3.909495	-1.969080
C	-0.328902	5.002486	-2.794372
H	0.087633	5.092153	-3.798853
H	-1.019825	4.157506	-2.795242
H	-0.906971	5.908562	-2.588769
H	2.080256	6.147326	-2.895769
H	1.269488	6.938167	-1.543397
H	2.651155	5.862442	-1.256276
O	2.909707	3.341084	-0.165351
O	1.719523	2.325261	1.480273
C	3.661309	2.107027	-0.392885
C	2.888952	1.174615	-1.296589
H	4.589508	2.445361	-0.846502
H	3.873940	1.646336	0.571598
H	3.477058	0.279834	-1.503919
H	1.953482	0.873610	-0.825994
H	2.655857	1.661475	-2.243629
C	1.589054	4.883683	3.293585
C	-0.373676	6.034398	2.277257
H	-0.107394	3.903931	2.414636
H	1.134239	4.975450	4.281009
H	2.237876	4.008710	3.307269
H	2.205049	5.773557	3.128325
H	-0.670857	6.224622	3.309852
H	0.177292	6.914049	1.926445
H	-1.284449	5.934743	1.687827

M06.L10

O	0.000001	-1.260554	-0.000099
C	1.179554	-0.422022	0.137338
C	0.728901	0.985590	-0.234889
C	-0.728899	0.985557	0.235030
C	-1.179555	-0.422002	-0.137398
H	1.529095	-0.463745	1.173371
H	1.958792	-0.819616	-0.511144
H	0.774606	1.127653	-1.316637
H	1.329729	1.759917	0.239317
H	-1.329728	1.759952	-0.239065
H	-0.774604	1.127466	1.316799
H	-1.958786	-0.819690	0.511036
H	-1.529108	-0.463574	-1.173432

M06.L11

C	0.035858	-0.062091	0.063022
H	-0.009482	0.016323	1.145256
H	1.084309	-0.096805	-0.253083
H	-0.458329	-0.987423	-0.253112
O	-0.627548	1.087056	-0.469294
C	-0.639850	1.108288	-1.901748
C	-1.363619	2.361823	-2.314918
H	0.381603	1.115423	-2.300946
H	-1.156754	0.227232	-2.300860
O	-1.375921	2.383054	-3.747372
H	-2.385072	2.354687	-1.915720
H	-0.846715	3.242878	-1.915806
C	-2.039327	3.532201	-4.279688
H	-1.993987	3.453787	-5.361922
H	-3.087778	3.566915	-3.963583
H	-1.545140	4.457533	-3.963555

M06.L12

C	0.011965	-0.019818	0.176004
H	-0.064734	0.114925	1.250924
H	1.069763	-0.071134	-0.106252
H	-0.473070	-0.961734	-0.104695
O	-0.634716	1.099502	-0.434641
C	-0.603916	1.044846	-1.866527
C	-1.310920	2.269595	-2.396692
H	0.438989	1.013403	-2.216722
H	-1.098714	0.125970	-2.215979
C	-1.324821	2.294354	-3.906700
H	-2.335847	2.287112	-2.023901
H	-0.813705	3.165827	-2.023493
O	-2.010465	3.481493	-4.324835
H	-0.299615	2.294521	-4.307027
H	-1.836942	1.406444	-4.307471
C	-2.082291	3.607321	-5.747144
H	-2.614795	4.529786	-5.959213
H	-1.082487	3.657528	-6.193360
H	-2.625187	2.766751	-6.194275

M06.L13

C	0.057941	-0.100294	0.144147
H	0.005354	-0.008668	1.225153
H	1.109118	-0.140162	-0.163455
H	-0.433369	-1.030622	-0.162950
O	-0.601440	1.041668	-0.407893
C	-0.602739	1.043759	-1.842363
C	-1.319785	2.285642	-2.314305
H	0.430945	1.028730	-2.218483
H	-1.106545	0.141002	-2.218381
C	-1.367221	2.368389	-3.835695
H	-2.332148	2.282022	-1.900436
H	-0.810755	3.160555	-1.900114
C	-2.084267	3.610272	-4.307637
H	-0.354857	2.372008	-4.249564
H	-1.876251	1.493475	-4.249886
O	-2.085565	3.612362	-5.742107
H	-3.117951	3.625300	-3.931517
H	-1.580460	4.513028	-3.931619
C	-2.744946	4.754324	-6.294147
H	-2.692360	4.662698	-7.375152
H	-3.796123	4.794192	-5.986545
H	-2.253636	5.684652	-5.987050

M06.L14

C	0.426151	0.097289	0.062613
H	0.815682	0.381766	1.035824
H	1.242302	-0.298116	-0.553135
H	-0.329737	-0.686932	0.190026
O	-0.143926	1.269673	-0.523061
C	-0.669706	1.022090	-1.834793
C	-1.397081	2.256596	-2.379472
H	0.160756	0.738051	-2.499532
H	-1.356615	0.163696	-1.796804
C	-1.371486	2.104490	-3.900305
C	-2.872964	2.327253	-1.877942
C	-0.666906	3.555221	-1.982767
O	-2.091609	3.186768	-4.502858

H	-0.334975	2.107162	-4.263722
H	-1.817946	1.145539	-4.202701
C	-2.169192	3.069383	-5.925361
H	-2.717696	3.933218	-6.289649
H	-1.170989	3.056410	-6.377535
H	-2.699428	2.154338	-6.215886
H	-3.237307	3.308650	-2.198594
C	-3.793945	1.280657	-2.509472
C	-3.000830	2.246255	-0.355274
H	-4.035799	2.441847	-0.065634
H	-2.734785	1.252124	0.012687
H	-2.365159	2.964748	0.159618
H	-4.789519	1.355196	-2.067281
H	-3.903418	1.422841	-3.585171
H	-3.439070	0.261432	-2.328217
H	-1.270841	4.387546	-2.352740
H	-0.649748	3.621238	-0.893120
C	0.764407	3.697796	-2.495024
C	1.568238	4.774523	-1.758797
H	1.299849	2.747690	-2.388441
H	0.763039	3.946346	-3.565085
C	3.003325	4.806824	-2.278079
C	0.927994	6.153886	-1.899264
H	1.585866	4.502159	-0.695380
H	3.606782	5.537820	-1.735873
H	3.483754	3.830640	-2.182352
H	3.014567	5.084597	-3.336819
H	1.545683	6.921362	-1.427819
H	0.821986	6.411677	-2.958128
H	-0.062260	6.195172	-1.444040

M06.L15

C	-0.534781	-0.000068	0.000035
C	-1.399120	0.176376	1.244500
C	0.423694	-1.161720	0.203174
C	0.423126	1.162044	-0.203156
O	-2.288449	1.283014	1.042370
H	-1.979390	-0.735626	1.424922
H	-0.751825	0.364240	2.111801
C	-3.159102	1.496077	2.156487
H	-3.794309	2.342417	1.910963
H	-3.783743	0.615363	2.340778
H	-2.589832	1.722177	3.064690
C	1.754976	-0.719090	0.128757
C	2.806395	-1.612276	0.292052
C	2.516444	-2.952456	0.531471
C	1.196049	-3.391169	0.604237
C	0.137960	-2.496424	0.440123
H	3.834339	-1.276707	0.235790
H	3.323848	-3.660932	0.661300
H	0.989338	-4.437223	0.787445
H	-0.887377	-2.837097	0.477912
C	1.754623	0.720048	-0.128790
C	2.805612	1.613727	-0.292147
C	2.515017	2.953765	-0.531580
C	1.194411	3.391850	-0.604303
C	0.136754	2.496608	-0.440126
H	3.833717	1.278646	-0.235929
H	3.322080	3.662621	-0.661460
H	0.987195	4.437801	-0.787527

H	-0.888744	2.836799	-0.477898
C	-1.399104	-0.176953	-1.244377
O	-2.287864	-1.284034	-1.042169
H	-1.979838	0.734755	-1.424787
H	-0.751765	-0.364516	-2.111711
C	-3.158402	-1.497643	-2.156270
H	-3.793160	-2.344301	-1.910681
H	-2.589009	-1.723513	-3.064453
H	-3.783509	-0.617275	-2.340632

M06.ML01

Ti	0.106260	0.075909	1.358304
Cl	1.133586	1.567304	2.706094
Cl	1.341355	-1.440237	0.264848
Cl	-1.982732	0.526320	0.633321
Cl	-0.539004	-1.280414	3.012075
O	0.694616	1.377238	-0.178039
C	0.653257	2.523474	-0.673859
O	1.316906	2.790073	-1.787036
C	-0.108331	3.645793	-0.092831
C	2.096867	1.697533	-2.413911
C	2.765624	2.286624	-3.622724
H	2.801513	1.324129	-1.670988
H	1.402534	0.892941	-2.655873
H	3.353729	1.518717	-4.124857
H	2.030761	2.670285	-4.328529
H	3.433538	3.099602	-3.342794
H	-1.164317	3.373747	-0.044969
H	0.222309	3.808043	0.934408
H	0.018298	4.550538	-0.676379

M06.ML01-cis

Ti	-0.000001	0.000001	1.241230
Cl	0.659400	1.583804	2.722704
Cl	2.142898	-0.868601	0.912600
Cl	-2.142900	0.868603	0.912596
Cl	-0.659405	-1.583802	2.722703
O	0.537448	1.262237	-0.348059
C	0.596056	2.440405	-0.753104
O	1.297092	2.729122	-1.845872
C	-0.063081	3.588104	-0.103571
C	2.038252	1.632590	-2.500612
C	2.828623	2.254897	-3.617016
H	2.662589	1.152523	-1.746972
H	1.309753	0.900619	-2.851134
H	3.397750	1.485111	-4.138110
H	2.173610	2.744301	-4.336298
H	3.529057	2.993799	-3.231249
H	-1.118170	3.356714	0.048590
H	0.363981	3.725600	0.892057
H	0.058673	4.491392	-0.690505
O	-0.537447	-1.262236	-0.348059
C	-0.596054	-2.440405	-0.753104
O	-1.297091	-2.729122	-1.845871
C	-2.038253	-1.632592	-2.500611
C	-2.828623	-2.254900	-3.617014
H	-2.662592	-1.152526	-1.746971
H	-1.309756	-0.900619	-2.851132
H	-3.397752	-1.485115	-4.138108
H	-2.173609	-2.744303	-4.336297

H	-3.529055	-2.993804	-3.231248
C	0.063084	-3.588102	-0.103571
H	1.118173	-3.356711	0.048589
H	-0.363977	-3.725598	0.892058
H	-0.058669	-4.491390	-0.690503

M06.ML02

Cl	-1.994709	-2.494695	-1.300057
Ti	-0.018742	-2.426537	-0.187893
Cl	-0.049185	-4.618178	0.269791
Cl	2.023534	-2.505739	-1.157923
Cl	-0.070763	-1.755663	1.951393
H	-0.309410	0.831035	1.349762
C	-0.392079	1.799826	0.875254
C	-0.313208	1.896334	-0.517641
C	-0.121245	0.679957	-1.297088
O	-0.013041	-0.454909	-0.773858
O	-0.060554	0.849829	-2.610510
C	0.145824	-0.315992	-3.496538
C	-0.574517	2.945562	1.633380
C	-0.678045	4.184590	1.008504
C	-0.599828	4.282500	-0.378694
C	-0.418078	3.143060	-1.144572
H	-0.356502	3.206814	-2.220667
H	-0.681024	5.247162	-0.859177
H	-0.820190	5.076792	1.602906
H	-0.635978	2.872743	2.709720
C	0.193933	0.217441	-4.900120
H	1.073704	-0.802262	-3.195530
H	-0.682572	-1.006000	-3.335309
H	0.345929	-0.607014	-5.596470
H	-0.737664	0.716860	-5.161473
H	1.014247	0.922878	-5.023095

M06.ML03

Ti	0.029795	-1.737921	0.000000
Cl	-2.163361	-0.945416	0.000003
Cl	-0.236708	-3.122643	1.751400
Cl	-0.236714	-3.122645	-1.751398
Cl	2.361140	-1.819093	-0.000004
O	0.374678	-0.121275	1.299703
C	0.350074	1.088702	1.558415
O	0.823442	1.517716	2.729343
C	-0.196540	2.166113	0.706584
C	1.337840	0.489418	3.658838
C	-0.196541	2.166113	-0.706586
C	0.350071	1.088701	-1.558418
O	0.374674	-0.121276	-1.299706
O	0.823438	1.517714	-2.729347
C	1.337835	0.489416	-3.658842
C	-0.741399	3.260997	1.379901
C	-1.308982	4.323359	0.692938
C	-1.308984	4.323358	-0.692940
C	-0.741401	3.260996	-1.379903
H	-0.721603	3.264903	-2.458566
H	-1.743950	5.146179	-1.241903
H	-1.743948	5.146180	1.241901
H	-0.721598	3.264905	2.458564
C	1.899552	1.197917	-4.869467
H	2.102727	-0.089141	-3.133155

H	0.512586	-0.180507	-3.906172
C	2.320037	0.138203	-5.887267
H	1.104344	1.812490	-5.304323
C	3.079142	2.089058	-4.494878
C	1.899553	1.197919	4.869465
H	0.512594	-0.180509	3.906165
H	2.102736	-0.089135	3.133152
C	2.320040	0.138205	5.887264
C	3.079140	2.089065	4.494881
H	1.104341	1.812488	5.304321
H	3.479482	2.588494	5.378259
H	3.881594	1.487015	4.058888
H	2.794852	2.851793	3.770419
H	2.720503	0.610872	6.784380
H	1.484051	-0.497651	6.182997
H	3.102089	-0.502763	5.471560
H	2.720504	0.610871	-6.784381
H	3.102083	-0.502769	-5.471563
H	1.484046	-0.497648	-6.183004
H	3.479488	2.588487	-5.378255
H	2.794856	2.851785	-3.770416
H	3.881593	1.487003	-4.058885

M06.ML04

Cl	-2.264350	-0.918957	0.000001
Ti	-0.092026	-1.764742	0.000000
Cl	-0.390488	-3.141361	1.752716
Cl	-0.390489	-3.141361	-1.752716
Cl	2.237097	-1.900504	-0.000001
O	0.290386	-0.156575	1.298518
C	0.296353	1.053170	1.559643
O	0.773661	1.465841	2.735291
C	-0.214424	2.147138	0.706782
C	1.259603	0.416922	3.662013
C	-0.214424	2.147138	-0.706782
C	0.296353	1.053170	-1.559643
O	0.290385	-0.156575	-1.298518
O	0.773661	1.465841	-2.735291
C	1.259603	0.416921	-3.662013
C	-0.723880	3.259090	1.379791
C	-1.257721	4.338868	0.692899
C	-1.257721	4.338868	-0.692899
C	-0.723880	3.259090	-1.379791
H	-0.703085	3.262633	-2.458401
H	-1.665932	5.175190	-1.241965
H	-1.665932	5.175190	1.241965
H	-0.703085	3.262633	2.458401
C	1.780073	1.125955	-4.879514
H	2.023661	-0.158301	-3.138225
H	0.424409	-0.250583	-3.875129
H	2.159640	0.393170	-5.591289
H	0.993815	1.699359	-5.368418
H	2.593268	1.802283	-4.620620
C	1.780073	1.125955	4.879514
H	0.424408	-0.250583	3.875129
H	2.023661	-0.158301	3.138225
H	2.159641	0.393171	5.591289
H	2.593269	1.802284	4.620619
H	0.993816	1.699360	5.368419

M06.ML05

Cl	-2.010735	-2.423641	-1.400821
Ti	-0.045628	-2.397285	-0.271010
Cl	-0.084359	-4.598577	0.125669
Cl	2.000311	-2.449990	-1.232623
Cl	-0.112686	-1.782205	1.884532
H	-0.332007	0.820276	1.357680
C	-0.393664	1.805497	0.914460
C	-0.297994	1.943528	-0.474095
C	-0.118206	0.747388	-1.290499
O	-0.029577	-0.402047	-0.799253
O	-0.048855	0.958859	-2.596099
C	0.144644	-0.179695	-3.520444
C	-0.565743	2.929288	1.707905
C	-0.641426	4.186101	1.123844
C	-0.545266	4.328062	-0.262307
C	-0.374049	3.206601	-1.063792
H	-0.300344	3.315091	-2.134502
C	-0.630539	5.690650	-0.827870
H	-0.775128	5.075388	1.724456
H	-0.640481	2.824083	2.780358
C	0.198497	0.400180	-4.905229
H	1.067277	-0.685176	-3.235462
H	-0.691270	-0.865440	-3.381186
H	0.341644	-0.401838	-5.629093
H	-0.727610	0.918303	-5.148980
H	1.026138	1.100760	-5.004356
O	-0.517898	5.707185	-2.177839
O	-0.785962	6.707872	-0.156307
C	-0.589042	7.012255	-2.833989
C	-0.430365	6.769570	-4.310571
H	-1.546820	7.470570	-2.584793
H	0.199349	7.645840	-2.425970
H	-0.476473	7.715507	-4.850341
H	0.528230	6.299278	-4.525967
H	-1.222736	6.122907	-4.685301

M06.ML06

Cl	-2.018460	-2.458989	-1.366096
Ti	-0.045721	-2.450070	-0.248708
Cl	-0.090575	-4.653478	0.131865
Cl	1.995773	-2.500901	-1.219949
Cl	-0.097821	-1.844443	1.906914
H	-0.297021	0.775452	1.393314
C	-0.369000	1.758877	0.948757
C	-0.294062	1.897971	-0.439861
C	-0.119507	0.700719	-1.259665
O	-0.025463	-0.448279	-0.771067
O	-0.060320	0.915006	-2.565722
C	0.129258	-0.222754	-3.492425
C	-0.533881	2.881073	1.741301
C	-0.623975	4.143777	1.155780
C	-0.549423	4.282232	-0.231299
C	-0.385316	3.163324	-1.028338
H	-0.326955	3.259238	-2.101995
H	-0.620964	5.264939	-0.671657
C	-0.798889	5.309737	2.051773
H	-0.594940	2.799191	2.817059
C	0.180592	0.357887	-4.876893
H	1.051863	-0.729734	-3.210050

H	-0.707245	-0.907343	-3.351260
H	0.320671	-0.444093	-5.601387
H	-0.745318	0.877310	-5.118628
H	1.009417	1.056778	-4.978127
O	-0.867957	6.483010	1.379020
O	-0.874143	5.233303	3.275263
C	-1.040590	7.696049	2.178342
C	-1.078194	8.853250	1.217403
H	-1.961290	7.598722	2.754884
H	-0.211705	7.762898	2.884004
H	-1.206676	9.787126	1.764795
H	-0.151886	8.915460	0.647786
H	-1.906296	8.750485	0.517378

M06.ML07

Cl	-1.562444	-0.857739	-1.006977
Ti	0.456488	-1.520220	-0.036314
Cl	-0.456186	-2.871336	1.506875
Cl	0.992935	-3.024248	-1.614424
Cl	2.575542	-1.425465	0.942611
O	0.118703	0.162593	1.238990
C	0.736832	1.176539	1.608094
O	0.943717	1.433854	2.887418
C	1.317346	2.186668	0.676577
C	0.544701	0.391917	3.868475
C	0.582795	2.297330	-0.657830
C	0.891298	1.195611	-1.614762
O	1.221934	0.046982	-1.271756
O	0.771226	1.529994	-2.887409
C	0.896526	0.444731	-3.894327
H	1.339560	3.149794	1.183376
H	0.806607	3.246403	-1.141576
C	0.613298	1.065402	-5.231820
H	1.902890	0.035413	-3.811785
H	0.185189	-0.334253	-3.619341
H	0.691709	0.304957	-6.008572
H	-0.392464	1.481037	-5.263148
H	1.324582	1.858716	-5.456996
C	0.992013	0.878691	5.216588
H	-0.534651	0.264998	3.790907
H	1.023218	-0.539064	3.563738
H	0.721593	0.144777	5.975529
H	2.072045	1.013277	5.243249
H	0.517260	1.825060	5.471551
H	-0.501990	2.273909	-0.504652
H	2.361503	1.893465	0.520074

M06.ML08

Ti	-0.114667	-1.613001	0.351195
Cl	-2.357764	-1.057230	0.643577
Cl	0.023089	-2.966913	2.127950
Cl	-0.480872	-3.114030	-1.289382
Cl	2.197979	-1.476486	-0.015596
O	0.283667	0.072954	1.601959
C	0.219923	1.315117	1.558079
O	1.009853	2.049343	2.336979
C	-0.702172	2.088642	0.658155
C	2.009641	1.350247	3.174612
C	-0.053227	2.361747	-0.722255
C	0.042973	1.098144	-1.523504

O	-0.123644	-0.044165	-1.072647
O	0.324374	1.286402	-2.807711
C	0.563258	0.079140	-3.635656
H	-1.551086	1.418088	0.481128
C	1.300434	3.132462	-0.674135
C	1.061440	0.568083	-4.965753
H	1.286469	-0.543728	-3.106613
H	-0.375731	-0.470039	-3.698486
H	1.258718	-0.282537	-5.617696
H	0.325760	1.208111	-5.450643
H	1.987794	1.130477	-4.850162
C	3.007482	2.390996	3.598244
H	1.475048	0.897468	4.009137
H	2.450442	0.551280	2.577574
H	3.775654	1.932958	4.220846
H	3.492765	2.831748	2.727247
H	2.531283	3.186677	4.169162
H	-0.761322	2.990091	-1.269799
C	-1.265192	3.341629	1.362514
C	1.433409	4.096979	-1.850706
H	1.265990	3.723631	0.247192
C	2.520425	2.213535	-0.603227
H	3.417664	2.804314	-0.412857
H	2.451000	1.453647	0.176662
H	2.672987	1.686889	-1.549500
H	2.362440	4.663915	-1.770130
H	1.448755	3.554560	-2.797308
H	0.605900	4.809354	-1.879652
C	-2.143429	4.170748	0.428444
C	-2.091837	2.890517	2.569314
H	-0.436119	3.960958	1.714403
H	-2.661734	4.943171	0.998040
H	-1.573671	4.675708	-0.353745
H	-2.905219	3.544842	-0.046055
H	-2.483911	3.752472	3.110200
H	-2.938896	2.282569	2.239450
H	-1.509530	2.294932	3.274339

M06.ML09

Cl	0.700730	1.507233	-2.209753
Ti	-0.000250	1.826659	-0.000364
Cl	1.653624	3.258709	0.520498
Cl	-1.654576	3.258058	-0.521581
Cl	-0.701121	1.507555	2.209104
O	1.282766	0.194779	0.373040
C	1.547005	-1.016185	0.304332
O	2.788371	-1.419200	0.054565
C	0.564638	-2.124760	0.530689
C	3.807005	-0.363308	-0.170304
C	-0.563915	-2.125060	-0.530454
C	-1.546630	-1.016737	-0.304367
O	-1.282778	0.194294	-0.373375
O	-2.787870	-1.420085	-0.054505
C	-3.806843	-0.364465	0.170094
H	1.116500	-3.060405	0.411683
H	-1.115487	-3.060849	-0.411225
C	-5.087107	-1.068413	0.518159
H	-3.437836	0.284714	0.965100
H	-3.873857	0.224148	-0.745320
H	-5.872562	-0.332365	0.688257

H	-5.405057	-1.727721	-0.288184
H	-4.973551	-1.660322	1.425183
C	5.087490	-1.066934	-0.518207
H	3.437782	0.285557	-0.965467
H	3.873837	0.225552	0.744963
H	5.872707	-0.330678	-0.688498
H	5.405659	-1.725938	0.288298
H	4.974113	-1.659106	-1.425082
C	-0.044409	-2.079076	-1.991112
C	0.045117	-2.078590	1.991337
C	-0.781194	-3.324807	2.297910
C	1.213770	-1.966968	2.968800
H	-0.577739	-1.184394	2.111030
C	-1.213096	-1.968018	-2.968600
H	0.578188	-1.184727	-2.111008
C	0.782258	-3.325127	-2.297402
H	0.850081	-2.006951	3.995641
H	1.918234	-2.792072	2.825889
H	1.753712	-1.024071	2.856902
H	-1.095625	-3.312390	3.342249
H	-1.680868	-3.397773	1.686455
H	-0.182846	-4.227834	2.142530
H	-0.849397	-2.008135	-3.995432
H	-1.917321	-2.793293	-2.825495
H	-1.753311	-1.025251	-2.856921
H	1.096701	-3.312849	-3.341739
H	1.681943	-3.397708	-1.685917
H	0.184161	-4.228288	-2.141835

M06.ML10

Ti	0.015496	0.114365	1.012328
Cl	2.225726	-0.177421	0.755347
Cl	-1.425397	-0.710341	-0.528038
Cl	-0.265882	-1.582494	2.443958
Cl	-0.698106	1.711834	2.412354
O	0.242964	1.685205	-0.422619
C	-0.717362	2.799313	-0.590406
C	-0.328225	3.442327	-1.906845
C	0.186736	2.253670	-2.719695
C	0.973433	1.464735	-1.693595
H	-1.718449	2.364045	-0.621756
H	-0.621307	3.439474	0.280560
H	0.465605	4.175670	-1.756753
H	-1.173137	3.941925	-2.376043
H	0.802822	2.548800	-3.566412
H	-0.649828	1.657147	-3.088461
H	0.998960	0.395038	-1.884394
H	1.987239	1.835018	-1.544834

M06.ML10-cis

Ti	0.000001	0.000000	0.940192
Cl	2.319638	-0.010036	0.689667
Cl	-2.319637	0.010037	0.689672
Cl	0.002416	-1.728649	2.405322
Cl	-0.002411	1.728650	2.405321
O	-0.004528	1.387049	-0.691596
O	0.004527	-1.387050	-0.691595
C	-0.955961	2.514987	-0.814987
C	-0.346370	3.410112	-1.876593
C	0.388375	2.413209	-2.775909

C	1.000984	1.463514	-1.766837
C	0.955959	-2.514989	-0.814986
C	0.346368	-3.410113	-1.876593
C	-0.388374	-2.413209	-2.775909
C	-1.000984	-1.463513	-1.766837
H	-1.914971	2.091476	-1.114128
H	-1.052160	2.965825	0.169539
H	0.363615	4.108066	-1.430365
H	-1.104992	3.983013	-2.405875
H	1.143121	2.881387	-3.404547
H	-0.320974	1.888654	-3.420826
H	1.174223	0.450835	-2.125135
H	1.923094	1.847488	-1.331737
H	1.914970	-2.091478	-1.114126
H	1.052157	-2.965828	0.169540
H	1.104990	-3.983014	-2.405875
H	-0.363618	-4.108066	-1.430366
H	0.320976	-1.888653	-3.420826
H	-1.143121	-2.881385	-3.404549
H	-1.174221	-0.450834	-2.125135
H	-1.923095	-1.847486	-1.331739

M06.ML11

Ti	-1.185745	-1.978302	0.207062
Cl	-3.294434	-1.280875	0.825590
Cl	-1.058667	-3.699589	1.641861
Cl	-1.863774	-2.989269	-1.684754
Cl	1.091532	-2.040180	-0.375510
O	-0.512020	-0.609653	1.734788
C	-0.804460	0.782241	1.441685
O	-1.045658	0.004862	-0.774417
C	-0.398674	1.031744	0.014719
H	-1.875433	0.915311	1.581472
H	-0.254402	1.423911	2.129859
H	-0.738804	2.011803	-0.326591
H	0.684804	0.946684	-0.120425
C	-0.820211	0.165749	-2.200116
H	-1.101678	1.179409	-2.485252
H	0.229276	-0.027791	-2.428640
H	-1.451189	-0.556362	-2.704280
C	0.609523	-0.838540	2.628232
H	1.531701	-0.480328	2.168640
H	0.411508	-0.328065	3.569895
H	0.671204	-1.909434	2.787021

M06.ML12

Ti	-1.114437	-1.899140	0.179069
Cl	-2.501883	-0.048644	0.379844
Cl	-1.623328	-2.759736	2.200920
Cl	-2.555654	-3.109411	-1.064169
Cl	0.709359	-3.318071	-0.189951
O	0.377466	-0.625319	1.120475
C	0.647445	0.749510	0.710247
O	-0.415084	-0.921343	-1.633080
C	1.074684	0.805250	-0.741417
H	-0.268113	1.314692	0.882874
H	1.431172	1.137192	1.361630
H	1.434986	1.815560	-0.953705
H	1.910788	0.118169	-0.909761
C	-0.024336	-1.674404	-2.815239

H	1.064007	-1.716877	-2.877438
H	-0.424658	-2.675747	-2.717139
H	-0.450073	-1.188036	-3.692404
C	1.367528	-1.151214	2.048079
C	-0.050978	0.490565	-1.704190
H	0.245286	0.700552	-2.732254
H	-0.951320	1.058789	-1.471735
H	1.435976	-0.476846	2.901170
H	1.030207	-2.126910	2.374694
H	2.329035	-1.244170	1.541112

M06.ML13

Ti	-0.657857	-2.197254	0.040884
Cl	-2.577553	-1.066601	0.722789
Cl	-0.439679	-3.412736	1.934413
Cl	-1.775474	-3.756708	-1.154968
Cl	1.448141	-2.751996	-0.788907
O	0.385748	-0.555320	1.011998
C	1.528215	0.200612	0.484947
O	-0.735221	-0.865826	-1.676580
C	1.172766	0.947009	-0.794914
H	1.805306	0.909750	1.266875
H	2.346544	-0.502115	0.336693
H	1.849072	1.801009	-0.867565
H	1.381315	0.311955	-1.656791
C	-0.540462	-1.397727	-3.019929
H	0.153722	-0.751537	-3.558529
H	-0.119366	-2.390817	-2.931187
H	-1.503332	-1.442414	-3.528499
C	0.117335	-0.248069	2.411717
C	-0.289027	1.415848	-0.817653
H	-0.358583	2.431544	-1.211996
H	-0.692267	1.447360	0.195300
H	-0.010059	0.829856	2.518475
H	-0.796106	-0.752747	2.698304
H	0.948914	-0.602871	3.020287
C	-1.175059	0.534419	-1.689180
H	-2.215384	0.554681	-1.367834
H	-1.117219	0.857943	-2.729902

M06.ML14

Ti	-1.214898	-1.657676	0.423023
Cl	-1.768688	0.598238	0.660822
Cl	-1.563070	-2.168791	2.594843
Cl	-3.265446	-2.192130	-0.365990
Cl	-0.272336	-3.708143	-0.150614
O	0.792569	-1.062656	0.906442
C	1.423575	0.163527	0.420715
O	-0.486382	-1.077170	-1.564321
C	1.629568	0.134436	-1.094894
H	0.781133	0.988169	0.724353
H	2.382010	0.260207	0.931868
C	2.357420	1.445691	-1.484492
C	2.481791	-1.113365	-1.484614
C	-1.214407	-1.563810	-2.727214
H	-0.566783	-1.502702	-3.601180
H	-1.476572	-2.598389	-2.535322
H	-2.114980	-0.967247	-2.874020
C	1.599200	-1.805994	1.863627
C	0.281392	0.140274	-1.814560

H	0.444703	0.211821	-2.891638
H	-0.334698	0.981384	-1.496811
H	1.647536	-1.247310	2.798054
H	1.120323	-2.763857	2.025827
H	2.594051	-1.960870	1.447190
H	2.732707	1.332238	-2.505974
C	1.553797	2.746450	-1.391113
H	3.244478	1.543404	-0.848174
C	2.434165	4.001255	-1.431182
H	0.836626	2.814035	-2.218940
H	0.960368	2.773429	-0.470735
C	1.569260	5.247766	-1.264167
H	3.134774	3.946411	-0.587361
C	3.239798	4.088673	-2.725929
H	2.179622	6.152242	-1.243358
H	0.869656	5.336866	-2.100643
H	0.985476	5.209918	-0.342539
H	3.800699	5.023834	-2.771181
H	3.953893	3.270039	-2.828312
H	2.567161	4.062265	-3.589389
C	2.497565	-1.412931	-2.984630
C	3.931983	-1.023569	-0.996243
H	2.007051	-1.970554	-0.996511
H	3.204240	-2.219721	-3.185533
H	1.528157	-1.745125	-3.354382
H	2.818549	-0.549686	-3.574107
H	4.408479	-2.000490	-1.092771
H	4.511022	-0.319501	-1.598347
H	4.024935	-0.719368	0.048058

M06.ML15

Ti	-0.920642	-2.095145	0.272683
Cl	-2.299062	-0.220255	0.446770
Cl	-1.221104	-2.679080	2.431877
Cl	-2.519799	-3.342977	-0.716081
Cl	0.755767	-3.683124	-0.081635
O	0.710033	-0.775777	0.826566
C	0.792991	0.617402	0.401065
O	-0.311856	-1.301831	-1.652515
C	0.975925	0.739915	-1.109816
H	-0.115832	1.118570	0.733074
H	1.655893	1.069585	0.893120
C	1.036037	2.222236	-1.451401
C	2.341771	0.254950	-1.569454
C	-0.302150	-2.127233	-2.853605
H	0.574564	-1.868349	-3.446749
H	-0.240598	-3.161961	-2.537771
H	-1.221402	-1.957512	-3.413789
C	1.650294	-1.122443	1.884830
C	-0.163100	0.124687	-1.919686
H	0.059957	0.247509	-2.980985
H	-1.115329	0.603487	-1.693179
H	1.344533	-0.636099	2.810933
H	1.627379	-2.199603	2.001017
H	2.647589	-0.803376	1.583004
C	2.272384	2.541643	-2.032070
C	2.542009	3.846504	-2.424948
C	1.566196	4.820586	-2.231003
C	0.339592	4.499277	-1.653964
C	0.064567	3.190093	-1.257991

H	3.491672	4.106810	-2.874324
H	1.762173	5.840736	-2.532169
H	-0.405091	5.270260	-1.511890
H	-0.891503	2.944860	-0.809688
C	2.883476	-1.020067	-1.518247
C	4.175313	-1.217725	-2.009881
C	4.907188	-0.158702	-2.541044
C	4.365368	1.122426	-2.592916
C	3.081115	1.325498	-2.105461
H	2.323820	-1.851115	-1.107274
H	4.610558	-2.207299	-1.976294
H	5.906326	-0.333598	-2.916638
H	4.938543	1.942358	-3.006545
