

**Supporting Information**

*for*

**Choosing the right precursor for thermal decomposition solution-phase  
synthesis of iron nanoparticles: Tunable dissociation energies of ferrocene  
derivatives**

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Structural Data (Cartesian coordinates in Å) for all compounds considered.

24

Energy: -1060191.0071752

Fe	0.04431	0.14356	0.00000
C	1.09035	-1.10567	1.21235
C	1.79893	-0.90900	0.00000
C	-0.23500	-1.56350	1.15395
H	1.51888	-0.74278	2.13978
C	1.09035	-1.10567	-1.21235
C	-0.23500	-1.56350	-1.15395
H	1.51888	-0.74278	-2.13978
C	-0.67149	-2.42303	0.00000
H	-1.75898	-2.51906	0.00000
H	-0.25286	-3.44336	0.00000
C	-1.48866	1.32762	0.70728
C	-0.23500	1.83744	1.14770
C	-1.48866	1.32762	-0.70728
H	-2.28998	0.97918	1.34068
C	0.53475	2.15516	0.00000
H	0.07881	1.94808	2.17471
C	-0.23500	1.83744	-1.14770
H	-2.28998	0.97918	-1.34068
H	1.54086	2.54716	0.00000
H	0.07881	1.94808	-2.17471
H	-0.82164	-1.54682	-2.06612
H	-0.82164	-1.54682	2.06612
H	2.79326	-0.48213	0.00000

21

Energy: -3342097.3309190

Fe	0.00000	0.00000	0.30759
C	-1.54646	0.89997	1.28989
C	-0.38839	1.71776	1.33169
C	-1.88414	0.71105	-0.07506
H	-2.06987	0.48996	2.13917
C	0.00000	2.02858	-0.00278
C	-0.92979	1.39626	-0.87945
C	0.38839	-1.71776	1.33169
C	0.00000	-2.02858	-0.00278
C	1.54646	-0.89997	1.28989
C	0.92979	-1.39626	-0.87945
C	1.88414	-0.71105	-0.07506
H	2.06987	-0.48996	2.13917
Cl	-3.25492	-0.11047	-0.65800
Cl	-0.96656	1.54937	-2.56752
Cl	1.25506	3.07001	-0.46596
Cl	-1.25506	-3.07001	-0.46596
Cl	0.96656	-1.54937	-2.56752
Cl	3.25492	0.11047	-0.65800
Cl	-0.36458	-2.31030	2.74304
Cl	0.36458	2.31030	2.74304

21

Energy: -3342097.2072996

Fe	0.00000	0.00000	0.12038
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C	0.00000	-2.01101	0.49423
C	-0.94080	-1.35858	1.33171
C	-0.38200	-1.76525	-0.84932
H	0.84839	-2.59198	0.81988
C	-1.88748	-0.68341	0.50988
C	-1.54479	-0.94306	-0.84926
C	1.88748	0.68341	0.50988
C	1.54479	0.94306	-0.84926
C	0.94080	1.35858	1.33171
C	0.38200	1.76525	-0.84932
C	0.00000	2.01101	0.49423
H	-0.84839	2.59198	0.81988
Cl	-3.25911	0.16412	1.04672
Cl	-2.44111	-0.47255	-2.20910
Cl	0.35743	-2.42443	-2.23223
Cl	0.99643	1.44939	3.02941
Cl	3.25911	-0.16412	1.04672
Cl	2.44111	0.47255	-2.20910
Cl	-0.35743	2.42443	-2.23223
Cl	-0.99643	-1.44939	3.02941

21

Energy: -2188832.4442279

Fe	0.73576	-0.14051	0.00000
C	0.06123	1.78313	0.00000
C	-0.40789	1.08564	-1.14370
C	-0.40789	1.08564	1.14370
H	0.65912	2.68025	0.00000
C	-1.16139	-0.04371	-0.71331
C	-1.16139	-0.04371	0.71331
C	2.78554	-0.07023	0.00000
C	2.31549	-0.75988	1.14906
C	2.31549	-0.75988	-1.14906
H	3.36825	0.83830	0.00000
C	1.55689	-1.87655	0.70990
H	2.46684	-0.46047	2.17520
C	1.55689	-1.87655	-0.70990
H	2.46684	-0.46047	-2.17520
H	1.02924	-2.57323	1.34379
H	1.02924	-2.57323	-1.34379
Cl	-2.01358	-1.12640	-1.71227
Cl	-2.01358	-1.12640	1.71227
Cl	-0.18839	1.56930	-2.76732
Cl	-0.18839	1.56930	2.76732

21

Energy: -3342096.9212244

Fe	0.00000	0.00000	0.40861
C	0.00000	1.63706	1.63502
C	1.14398	1.65649	0.79657
C	-1.14398	1.65649	0.79657
H	0.00000	1.63235	2.71325
C	0.71281	1.66484	-0.56000
C	-0.71281	1.66484	-0.56000
C	0.00000	-1.63706	1.63502
C	-1.14398	-1.65649	0.79657

C	1.14398	-1.65649	0.79657
H	0.00000	-1.63235	2.71325
C	-0.71281	-1.66484	-0.56000
C	0.71281	-1.66484	-0.56000
C1	-1.70682	1.79742	-1.92691
C1	-2.75943	1.76719	1.31885
C1	1.70682	1.79742	-1.92691
C1	2.75943	1.76719	1.31885
C1	2.75943	-1.76719	1.31885
C1	1.70682	-1.79742	-1.92691
C1	-1.70682	-1.79742	-1.92691
C1	-2.75943	-1.76719	1.31885

21  
Energy: -3342097.3309190

Fe	0.00000	0.00000	0.30759
C	0.00000	2.02858	-0.00277
C	-0.92978	1.39627	-0.87945
C	-0.38839	1.71775	1.33169
C	-1.88414	0.71105	-0.07507
C	-1.54647	0.89996	1.28988
H	-2.06989	0.48995	2.13916
C	0.92978	-1.39627	-0.87945
C	1.88414	-0.71105	-0.07507
C	0.00000	-2.02858	-0.00277
C	1.54647	-0.89996	1.28988
C	0.38839	-1.71775	1.33169
H	2.06989	-0.48995	2.13916
C1	3.25492	0.11046	-0.65804
C1	1.25507	3.07000	-0.46594
C1	-0.36454	-2.31029	2.74306
C1	-1.25507	-3.07000	-0.46594
C1	-3.25492	-0.11046	-0.65804
C1	0.36454	2.31029	2.74306
C1	-0.96654	1.54937	-2.56752
C1	0.96654	-1.54937	-2.56752

21  
Energy: -3342097.2359204

Fe	0.00000	0.00000	0.00000
C	1.62905	1.01135	0.71313
C	1.62905	1.01135	-0.71313
C	0.42772	1.64170	1.14399
C	0.42772	1.64170	-1.14399
C	-0.32121	2.02060	0.00000
H	-1.28422	2.50611	0.00000
C	-0.42772	-1.64170	-1.14399
C	0.32121	-2.02060	0.00000
C	-1.62905	-1.01135	-0.71313
C	-0.42772	-1.64170	1.14399
H	1.28422	-2.50611	0.00000
C	-1.62905	-1.01135	0.71313
C1	2.88663	0.45696	1.70977
C1	0.00000	1.94820	2.76282
C1	0.00000	-1.94820	2.76282
C1	-2.88663	-0.45696	1.70977

C1	-2.88663	-0.45696	-1.70977
C1	0.00000	-1.94820	-2.76282
C1	2.88663	0.45696	-1.70977
C1	0.00000	1.94820	-2.76282

21  
Energy: -2188832.0719642

Fe	0.73115	0.13772	0.00000
C	-1.16641	0.03640	0.71319
C	-1.16641	0.03640	-0.71319
C	-0.41167	-1.09165	1.14336
C	-0.41167	-1.09165	-1.14336
C	0.05807	-1.78860	0.00000
H	0.65990	-2.68313	0.00000
C	1.88850	1.38184	-1.14864
C	1.41462	2.06881	0.00000
C	2.65311	0.26976	-0.71021
H	1.66367	1.63167	-2.17459
C	1.88850	1.38184	1.14864
H	0.76783	2.93319	0.00000
C	2.65311	0.26976	0.71021
H	3.11642	-0.46962	-1.34587
H	1.66367	1.63167	2.17459
H	3.11642	-0.46962	1.34587
C1	-2.00823	1.12641	1.71240
C1	-0.17989	-1.56736	2.76720
C1	-0.17989	-1.56736	-2.76720
C1	-2.00823	1.12641	-1.71240

21  
Energy: -3342097.3309190

Fe	0.00000	0.00000	-0.30759
C	-0.92979	1.39626	0.87945
C	0.00000	2.02858	0.00277
C	-1.88414	0.71105	0.07506
C	-0.38839	1.71776	-1.33169
C	-1.54646	0.89996	-1.28988
H	-2.06988	0.48995	-2.13917
C	1.88414	-0.71105	0.07506
C	0.92979	-1.39626	0.87945
C	1.54646	-0.89996	-1.28988
C	0.00000	-2.02858	0.00277
C	0.38839	-1.71776	-1.33169
H	2.06988	-0.48995	-2.13917
C1	-3.25492	-0.11047	0.65802
C1	-0.96655	1.54938	2.56752
C1	1.25506	3.07001	0.46595
C1	0.96655	-1.54938	2.56752
C1	3.25492	0.11047	0.65802
C1	-1.25506	-3.07001	0.46595
C1	-0.36456	-2.31029	-2.74305
C1	0.36456	2.31029	-2.74305

21  
Energy: -2477148.0901796

Fe	0.00000	0.00000	0.78437
C	0.00000	-1.21212	-0.84048
C	-1.15280	-0.37457	-0.84048
C	1.15280	-0.37457	-0.84048
C	-0.71247	0.98063	-0.84048
C	0.71247	0.98063	-0.84048
C	0.00000	-1.20775	2.44051
C	1.14864	-0.37322	2.44051
C	-1.14864	-0.37322	2.44051
H	0.00000	-2.28641	2.39567
C	0.70990	0.97709	2.44051
H	2.17451	-0.70654	2.39567
C	-0.70990	0.97709	2.44051
H	-2.17451	-0.70654	2.39567
H	1.34392	1.84975	2.39567
H	-1.34392	1.84975	2.39567
Cl	1.71069	2.35456	-0.94556
Cl	2.76796	-0.89936	-0.94556
Cl	-1.71069	2.35456	-0.94556
Cl	-2.76796	-0.89936	-0.94556
Cl	0.00000	-2.91040	-0.94556

21  
Energy: -3918726.9967006

Fe	-0.00003	0.00000	0.00000
C	0.97996	0.71199	1.65617
C	-0.37433	1.15203	1.65615
C	0.97996	-0.71199	1.65617
C	-1.21132	0.00000	1.65617
C	-0.37433	-1.15203	1.65615
C	0.97996	0.71199	-1.65617
C	0.97996	-0.71199	-1.65617
C	-0.37433	1.15203	-1.65615
C	-0.37433	-1.15203	-1.65615
C	-1.21132	0.00000	-1.65617
Cl	-2.90130	0.00000	1.78102
Cl	-0.89654	-2.75930	1.78099
Cl	-0.89654	2.75930	1.78099
Cl	2.34721	1.70535	1.78085
Cl	2.34721	-1.70535	1.78085
Cl	-0.89654	-2.75930	-1.78099
Cl	2.34721	-1.70535	-1.78085
Cl	-2.90130	0.00000	-1.78102
Cl	-0.89654	2.75930	-1.78099
Cl	2.34721	1.70535	-1.78085

21  
Energy: -3918727.0422640

Fe	0.00000	0.00000	0.00000
C	0.36375	1.15569	1.64996
C	-0.98672	0.70307	1.64996
C	1.21153	0.01118	1.64996
C	-0.97357	-0.72116	1.64996
C	0.38502	-1.14878	1.64996
C	-1.21153	0.01118	-1.64996
C	-0.36375	1.15569	-1.64996

C	-0.38502	-1.14878	-1.64996
C	0.98672	0.70307	-1.64996
C	0.97357	-0.72116	-1.64996
Cl	2.33426	-1.72896	-1.74064
Cl	2.90471	0.02671	1.74064
Cl	2.36566	1.68574	-1.74064
Cl	0.87220	2.77080	1.74064
Cl	-0.87220	2.77080	-1.74064
Cl	-2.36566	1.68574	1.74064
Cl	-2.90471	0.02671	-1.74064
Cl	-2.33426	-1.72896	1.74064
Cl	-0.92301	-2.75429	-1.74064
Cl	0.92301	-2.75429	1.74064

21  
Energy: -2477147.7805727

Fe	0.00000	0.00000	0.77770
C	0.00000	1.21184	-0.84823
C	1.15253	0.37448	-0.84823
C	-1.15253	0.37448	-0.84823
C	0.71230	-0.98040	-0.84823
C	-0.71230	-0.98040	-0.84823
C	1.14848	-0.37316	2.43682
C	0.70980	0.97695	2.43682
C	0.00000	-1.20758	2.43682
H	2.17437	-0.70650	2.39281
C	-0.70980	0.97695	2.43682
H	1.34384	1.84963	2.39281
C	-1.14848	-0.37316	2.43682
H	0.00000	-2.28627	2.39281
H	-1.34384	1.84963	2.39281
H	-2.17437	-0.70650	2.39281
Cl	0.00000	2.91056	-0.93932
Cl	2.76811	0.89941	-0.93932
Cl	-2.76811	0.89941	-0.93932
Cl	-1.71079	-2.35469	-0.93932
Cl	1.71079	-2.35469	-0.93932

21  
Energy: -3918727.0410090

Fe	0.00000	0.00000	0.00000
C	0.00000	1.21158	1.65004
C	-1.15228	0.37440	1.65004
C	1.15228	0.37440	1.65004
C	-0.71215	-0.98018	1.65004
C	0.71215	-0.98018	1.65004
C	-1.15228	-0.37440	-1.65004
C	-0.71215	0.98018	-1.65004
C	0.00000	-1.21158	-1.65004
C	0.71215	0.98018	-1.65004
C	1.15228	-0.37440	-1.65004
Cl	2.76261	-0.89763	-1.74134
Cl	2.76261	0.89763	1.74134
Cl	1.70739	2.35002	-1.74134
Cl	0.00000	2.90478	1.74134
Cl	-1.70739	2.35002	-1.74134

C1	-2.76261	0.89763	1.74134
C1	-2.76261	-0.89763	-1.74134
C1	-1.70739	-2.35002	1.74134
C1	0.00000	-2.90478	-1.74134
C1	1.70739	-2.35002	1.74134

21  
Energy: -2188834.5938432

Fe	0.00000	0.00000	0.11152
C	0.39867	-1.71395	1.14658
C	0.00000	-2.02619	-0.17958
C	1.55787	-0.90012	1.06182
H	-0.09856	-2.00853	2.05770
C	0.92125	-1.40468	-1.06260
H	-0.84961	-2.62113	-0.47561
C	1.88554	-0.69184	-0.30371
C	-1.55787	0.90012	1.06182
C	-0.39867	1.71395	1.14658
C	-1.88554	0.69184	-0.30371
C	0.00000	2.02619	-0.17958
H	0.09856	2.00853	2.05770
C	-0.92125	1.40468	-1.06260
H	-2.71188	0.11678	-0.68880
H	0.84961	2.62113	-0.47561
H	2.71188	-0.11678	-0.68880
C1	2.45941	-0.30705	2.39518
C1	0.91797	-1.55374	-2.76683
C1	-0.91797	1.55374	-2.76683
C1	-2.45941	0.30705	2.39518

21  
Energy: -2188834.9318010

Fe	0.00000	0.00000	0.28835
C	0.00000	-2.01816	0.61832
C	-0.91207	-1.37610	1.49662
C	-0.41039	-1.72772	-0.70888
H	0.86517	-2.59966	0.89641
C	-1.86963	-0.69791	0.69730
H	-0.88590	-1.38464	2.57485
C	-1.56460	-0.90204	-0.67367
C	1.86963	0.69791	0.69730
C	1.56460	0.90204	-0.67367
C	0.91207	1.37610	1.49662
C	0.41039	1.72772	-0.70888
H	2.09588	0.49933	-1.52111
C	0.00000	2.01816	0.61832
H	0.88590	1.38464	2.57485
H	-0.86517	2.59966	0.89641
H	-2.09588	-0.49933	-1.52111
C1	3.21746	-0.17937	1.29324
C1	-0.33455	2.32435	-2.13306
C1	-3.21746	0.17937	1.29324
C1	0.33455	-2.32435	-2.13306



Energy: -1612199.7214273

Fe	0.46487	0.13697	0.00000
C	-0.94306	1.43634	0.71028
C	-0.94306	1.43634	-0.71028
C	-1.21950	0.11122	1.13665
H	-0.75957	2.27938	1.35753
C	-1.21950	0.11122	-1.13665
H	-0.75957	2.27938	-1.35753
C	-1.38834	-0.72257	0.00000
C	2.28664	0.74813	0.71036
C	2.00321	-0.57197	1.14929
C	2.28664	0.74813	-0.71036
H	2.44344	1.60690	1.34516
C	1.82986	-1.38779	0.00000
H	1.89272	-0.88944	2.17524
C	2.00321	-0.57197	-1.14929
H	2.44344	1.60690	-1.34516
H	1.57601	-2.43688	0.00000
H	1.89272	-0.88944	-2.17524
H	-1.60857	-1.77763	0.00000
Cl	-1.39364	-0.39303	2.76859
Cl	-1.39364	-0.39303	-2.76859

21

Energy: -2188833.9107866

Fe	0.00000	0.00000	0.35260
C	-0.70989	1.64105	1.34735
C	0.70989	1.64105	1.34735
C	-1.13752	1.66591	-0.00529
H	-1.35759	1.62336	2.20970
C	1.13752	1.66591	-0.00529
H	1.35759	1.62336	2.20970
C	0.00000	1.66180	-0.85352
C	-0.70989	-1.64105	1.34735
C	-1.13752	-1.66591	-0.00529
C	0.70989	-1.64105	1.34735
H	-1.35759	-1.62336	2.20970
C	0.00000	-1.66180	-0.85352
C	1.13752	-1.66591	-0.00529
H	1.35759	-1.62336	2.20970
H	0.00000	-1.67734	-1.93132
H	0.00000	1.67734	-1.93132
Cl	-2.76179	-1.77250	-0.53104
Cl	-2.76179	1.77250	-0.53104
Cl	2.76179	1.77250	-0.53104
Cl	2.76179	-1.77250	-0.53104

21

Energy: -2188834.9318010

Fe	0.00000	0.00000	0.28835
C	1.86963	0.69791	0.69730
C	1.56461	0.90205	-0.67367
C	0.91207	1.37609	1.49662
C	0.41039	1.72772	-0.70888
C	0.00000	2.01816	0.61832
H	0.88590	1.38463	2.57485

H	-0.86517	2.59966	0.89642
C	-1.56461	-0.90205	-0.67367
C	-0.41039	-1.72772	-0.70888
C	-1.86963	-0.69791	0.69730
H	-2.09587	-0.49932	-1.52112
C	0.00000	-2.01816	0.61832
C	-0.91207	-1.37609	1.49662
H	0.86517	-2.59966	0.89642
H	-0.88590	-1.38463	2.57485
H	2.09587	0.49932	-1.52112
Cl	-0.33455	2.32436	-2.13305
Cl	-3.21746	0.17937	1.29324
Cl	0.33455	-2.32436	-2.13305
Cl	3.21746	-0.17937	1.29324

21  
Energy: -2188834.1190319

Fe	0.00000	0.00000	0.00000
C	-0.44321	1.63899	1.13707
C	0.31272	2.02643	0.00000
C	-1.63675	1.00349	0.71053
C	-0.44321	1.63899	-1.13707
C	-1.63675	1.00349	-0.71053
H	-2.39000	0.58378	1.35881
H	-2.39000	0.58378	-1.35881
C	1.63675	-1.00349	-0.71053
C	1.63675	-1.00349	0.71053
C	0.44321	-1.63899	-1.13707
H	2.39000	-0.58378	-1.35881
C	0.44321	-1.63899	1.13707
H	2.39000	-0.58378	1.35881
C	-0.31272	-2.02643	0.00000
H	-1.26717	-2.52729	0.00000
H	1.26717	2.52729	0.00000
Cl	0.00000	1.93573	2.76486
Cl	0.00000	-1.93573	2.76486
Cl	0.00000	-1.93573	-2.76486
Cl	0.00000	1.93573	-2.76486

21  
Energy: -1612199.2318382

Fe	0.46121	-0.13953	0.00000
C	-1.22558	-0.11118	1.13624
C	-1.39230	0.72300	0.00000
C	-0.95242	-1.43649	0.71017
C	-1.22558	-0.11118	-1.13624
C	-0.95242	-1.43649	-0.71017
H	-0.76737	-2.27924	1.35745
H	-0.76737	-2.27924	-1.35745
C	1.87676	1.16010	-0.71043
C	1.87676	1.16010	0.71043
C	2.16072	-0.15890	-1.14892
H	1.65865	2.00466	-1.34642
C	2.16072	-0.15890	1.14892
H	1.65865	2.00466	1.34642
C	2.33461	-0.97523	0.00000

H	2.19506	-0.49043	-2.17572
H	2.19506	-0.49043	2.17572
H	2.53283	-2.03636	0.00000
H	-1.60582	1.77950	0.00000
Cl	-1.38408	0.39664	2.76822
Cl	-1.38408	0.39664	-2.76822

21  
Energy: -2188834.9318010

Fe	0.00000	0.00000	0.28835
C	-1.86964	-0.69791	0.69729
C	-1.56460	-0.90205	-0.67368
C	-0.91208	-1.37608	1.49662
C	-0.41038	-1.72772	-0.70887
C	0.00000	-2.01815	0.61833
H	-0.88593	-1.38461	2.57485
H	0.86516	-2.59965	0.89645
C	0.41038	1.72772	-0.70887
C	0.00000	2.01815	0.61833
C	1.56460	0.90205	-0.67368
C	0.91208	1.37608	1.49662
H	-0.86516	2.59965	0.89645
C	1.86964	0.69791	0.69729
H	2.09586	0.49935	-1.52114
H	0.88593	1.38461	2.57485
H	-2.09586	-0.49935	-1.52114
Cl	-3.21746	0.17938	1.29323
Cl	-0.33458	2.32437	-2.13304
Cl	3.21746	-0.17938	1.29323
Cl	0.33458	-2.32437	-2.13304

21  
Energy: -2765465.8079918

Fe	0.00000	0.00000	0.57987
C	-0.79105	-1.42284	1.80911
C	-1.76865	-0.97776	0.88266
C	0.29817	-1.95601	1.07178
H	-0.84447	-1.35985	2.88461
C	-1.28558	-1.24302	-0.42450
H	-2.70699	-0.49823	1.11438
C	0.00000	-1.84825	-0.31683
C	0.79105	1.42284	1.80911
C	1.76865	0.97776	0.88266
C	-0.29817	1.95601	1.07178
H	0.84447	1.35985	2.88461
C	1.28558	1.24302	-0.42450
H	2.70699	0.49823	1.11438
C	0.00000	1.84825	-0.31683
Cl	1.69245	-2.68933	1.73027
Cl	0.94073	-2.44571	-1.59604
Cl	-2.12902	-0.97794	-1.87956
Cl	-1.69245	2.68933	1.73027
Cl	-0.94073	2.44571	-1.59604
Cl	2.12902	0.97794	-1.87956

21  
Energy: -2765466.2087570

Fe	0.00000	0.00000	0.19775
C	1.55811	0.89532	1.16314
C	1.88163	0.69125	-0.20276
C	0.40219	1.71614	1.22009
H	2.06974	0.47963	2.01734
C	0.92980	1.39068	-0.98889
H	2.69089	0.09292	-0.59172
C	0.00000	2.02148	-0.11248
C	-0.40219	-1.71614	1.22009
C	-1.55811	-0.89532	1.16314
C	0.00000	-2.02148	-0.11248
C	-1.88163	-0.69125	-0.20276
H	-2.06974	-0.47963	2.01734
C	-0.92980	-1.39068	-0.98889
H	-2.69089	-0.09292	-0.59172
Cl	0.93910	1.53661	-2.68516
Cl	-1.27522	3.05002	-0.56795
Cl	-0.34051	2.31164	2.63717
Cl	-0.93910	-1.53661	-2.68516
Cl	1.27522	-3.05002	-0.56795
Cl	0.34051	-2.31164	2.63717

21  
Energy: -1900515.9437590

Fe	-0.15570	-0.76629	0.00000
C	-1.85065	0.12355	-0.70970
C	-1.85065	0.12355	0.70970
C	-0.69483	0.82142	-1.14668
H	-2.58514	-0.33037	-1.35612
C	-0.69483	0.82142	1.14668
H	-2.58514	-0.33037	1.35612
C	0.03071	1.25698	0.00000
C	-0.11517	-2.68932	-0.71038
C	1.03110	-1.97520	-1.14886
C	-0.11517	-2.68932	0.71038
H	-0.86991	-3.12791	-1.34522
C	1.73920	-1.53456	0.00000
H	1.29201	-1.76193	-2.17455
C	1.03110	-1.97520	1.14886
H	-0.86991	-3.12791	1.34522
H	2.63122	-0.92631	0.00000
H	1.29201	-1.76193	2.17455
Cl	-0.28405	1.16985	-2.76880
Cl	1.43151	2.22443	0.00000
Cl	-0.28405	1.16985	2.76880

21  
Energy: -2765465.2346176

Fe	0.00000	0.00000	0.77237
C	0.70943	1.63151	1.77618
C	-0.70943	1.63151	1.77618
C	1.14674	1.66492	0.42711
H	1.35662	1.60686	2.63879
C	-1.14674	1.66492	0.42711

H	-1.35662	1.60686	2.63879
C	0.00000	1.67641	-0.41778
C	0.70943	-1.63151	1.77618
C	1.14674	-1.66492	0.42711
C	-0.70943	-1.63151	1.77618
H	1.35662	-1.60686	2.63879
C	0.00000	-1.67641	-0.41778
C	-1.14674	-1.66492	0.42711
H	-1.35662	-1.60686	2.63879
Cl	2.76129	1.78400	-0.10052
Cl	0.00000	1.82191	-2.10786
Cl	-2.76129	1.78400	-0.10052
Cl	-2.76129	-1.78400	-0.10052
Cl	0.00000	-1.82191	-2.10786
Cl	2.76129	-1.78400	-0.10052

21  
Energy: -2765466.2087570

Fe	0.00000	0.00000	0.19777
C	-0.40215	1.71615	1.22009
C	0.00000	2.02147	-0.11249
C	-1.55808	0.89533	1.16319
C	-0.92983	1.39067	-0.98886
C	-1.88164	0.69126	-0.20271
H	-2.06970	0.47964	2.01739
H	-2.69092	0.09292	-0.59162
C	0.92983	-1.39067	-0.98886
C	1.88164	-0.69126	-0.20271
C	0.00000	-2.02147	-0.11249
C	1.55808	-0.89533	1.16319
H	2.69092	-0.09292	-0.59162
C	0.40215	-1.71615	1.22009
H	2.06970	-0.47964	2.01739
Cl	0.34061	2.31165	2.63715
Cl	1.27519	3.05003	-0.56801
Cl	0.93915	-1.53658	-2.68514
Cl	-1.27519	-3.05003	-0.56801
Cl	-0.34061	-2.31165	2.63715
Cl	-0.93915	1.53658	-2.68514

21  
Energy: -2765466.1211943

Fe	0.00000	0.00000	0.00000
C	-0.44059	1.63304	1.14695
C	0.31075	2.02014	0.00000
C	-1.63384	1.00304	0.70952
C	-0.44059	1.63304	-1.14695
C	-1.63384	1.00304	-0.70952
H	-2.38643	0.57812	1.35536
H	-2.38643	0.57812	-1.35536
C	1.63384	-1.00304	-0.70952
C	1.63384	-1.00304	0.70952
C	0.44059	-1.63304	-1.14695
H	2.38643	-0.57812	-1.35536
C	0.44059	-1.63304	1.14695
H	2.38643	-0.57812	1.35536

C	-0.31075	-2.02014	0.00000
C1	0.00000	-1.94113	-2.76493
C1	-1.77836	-2.87866	0.00000
C1	0.00000	-1.94113	2.76493
C1	1.77836	2.87866	0.00000
C1	0.00000	1.94113	2.76493
C1	0.00000	1.94113	-2.76493

21  
Energy: -1900515.5108151

Fe	0.16153	0.76237	0.00000
C	0.69924	-0.82749	1.14636
C	-0.02746	-1.26090	0.00000
C	1.85672	-0.13318	0.70953
C	0.69924	-0.82749	-1.14636
C	1.85672	-0.13318	-0.70953
H	2.59101	0.32122	1.35593
H	2.59101	0.32122	-1.35593
C	-1.54196	1.64860	-0.71005
C	-1.54196	1.64860	0.71005
C	-0.39974	2.36761	-1.14873
H	-2.25789	1.14774	-1.34416
C	-0.39974	2.36761	1.14873
H	-2.25789	1.14774	1.34416
C	0.30691	2.81164	0.00000
H	-0.09952	2.51317	-2.17542
H	-0.09952	2.51317	2.17542
H	1.23609	3.36115	0.00000
C1	-1.43930	-2.21154	0.00000
C1	0.27992	-1.16240	2.76874
C1	0.27992	-1.16240	-2.76874

21  
Energy: -2765465.8079918

Fe	0.00000	0.00000	0.57986
C	-0.29815	-1.95601	1.07179
C	0.00000	-1.84825	-0.31683
C	0.79107	-1.42284	1.80910
C	1.28558	-1.24302	-0.42451
C	1.76866	-0.97776	0.88265
H	0.84449	-1.35981	2.88461
H	2.70700	-0.49822	1.11435
C	0.00000	1.84825	-0.31683
C	-1.28558	1.24302	-0.42451
C	0.29815	1.95601	1.07179
C	-1.76866	0.97776	0.88265
C	-0.79107	1.42284	1.80910
H	-2.70700	0.49822	1.11435
H	-0.84449	1.35981	2.88461
C1	-1.69243	-2.68933	1.73029
C1	-2.12900	0.97795	-1.87957
C1	-0.94074	-2.44572	-1.59603
C1	2.12900	-0.97795	-1.87957
C1	1.69243	2.68933	1.73029
C1	0.94074	2.44572	-1.59603

21  
 Energy: -1612199.8905097

Fe	0.00000	0.00000	0.58776
C	-0.71032	-1.49880	1.78663
C	-1.73176	-1.03605	0.91408
C	0.36953	-1.97277	0.99574
H	-0.73704	-1.47300	2.86529
C	-1.29270	-1.21866	-0.42362
H	-2.67000	-0.59408	1.21280
C	0.00000	-1.80046	-0.36375
H	1.30492	-2.38046	1.34516
H	-1.81753	-0.94382	-1.32530
C	0.71032	1.49880	1.78663
C	1.73176	1.03605	0.91408
C	-0.36953	1.97277	0.99574
H	0.73704	1.47300	2.86529
C	1.29270	1.21866	-0.42362
H	2.67000	0.59408	1.21280
C	0.00000	1.80046	-0.36375
H	-1.30492	2.38046	1.34516
H	1.81753	0.94382	-1.32530
Cl	0.94376	-2.27607	-1.71725
Cl	-0.94376	2.27607	-1.71725

21  
 Energy: -1612199.9998972

Fe	0.00000	0.00000	0.23263
C	0.36607	-1.75987	1.20721
C	0.00000	-2.00843	-0.14213
C	1.53008	-0.94584	1.21154
H	-0.16415	-2.10504	2.08162
C	0.93484	-1.35184	-0.98510
H	-0.86506	-2.56297	-0.47320
C	1.87512	-0.70240	-0.14323
H	2.05844	-0.56698	2.07210
H	0.93603	-1.32880	-2.06340
C	-1.53008	0.94584	1.21154
C	-0.36607	1.75987	1.20721
C	-1.87512	0.70240	-0.14323
H	-2.05844	0.56698	2.07210
C	0.00000	2.00843	-0.14213
H	0.16415	2.10504	2.08162
C	-0.93484	1.35184	-0.98510
H	0.86506	2.56297	-0.47320
H	-0.93603	1.32880	-2.06340
Cl	3.24686	0.18230	-0.67830
Cl	-3.24686	-0.18230	-0.67830

21  
 Energy: -1323881.7491475

Fe	-0.24014	-0.42642	0.00000
C	1.41781	-1.38955	0.71029
C	1.41781	-1.38955	-0.71029
C	1.40246	-0.04123	1.15613
H	1.40592	-2.26257	1.34479

C	1.40246	-0.04123	-1.15613
H	1.40592	-2.26257	-1.34479
C	1.39609	0.78174	0.00000
H	1.38781	0.30881	2.17618
H	1.38781	0.30881	-2.17618
C	-1.89267	-1.40685	0.71012
C	-1.89267	-0.05568	1.14852
C	-1.89267	-1.40685	-0.71012
H	-1.86902	-2.27982	1.34454
C	-1.89147	0.77906	0.00000
H	-1.86652	0.27858	2.17452
C	-1.89267	-0.05568	-1.14852
H	-1.86902	-2.27982	-1.34454
H	-1.84929	1.85790	0.00000
H	-1.86652	0.27858	-2.17452
Cl	1.44292	2.49965	0.00000

21

Energy: -1612199.2180769

Fe	0.00000	0.00000	0.72166
C	-0.71030	1.63759	1.71481
C	0.71030	1.63759	1.71481
C	-1.15502	1.65545	0.36654
H	-1.34497	1.60247	2.58712
C	1.15502	1.65545	0.36654
H	1.34497	1.60247	2.58712
C	0.00000	1.67682	-0.45713
H	-2.17489	1.65043	0.01557
H	2.17489	1.65043	0.01557
C	-0.71030	-1.63759	1.71481
C	-1.15502	-1.65545	0.36654
C	0.71030	-1.63759	1.71481
H	-1.34497	-1.60247	2.58712
C	0.00000	-1.67682	-0.45713
H	-2.17489	-1.65043	0.01557
C	1.15502	-1.65545	0.36654
H	1.34497	-1.60247	2.58712
H	2.17489	-1.65043	0.01557
Cl	0.00000	1.79570	-2.16591
Cl	0.00000	-1.79570	-2.16591

21

Energy: -1612199.8905097

Fe	0.00000	0.00000	0.58777
C	0.00000	-1.80045	-0.36376
C	0.36955	-1.97278	0.99572
C	-1.29271	-1.21865	-0.42360
C	-0.71030	-1.49883	1.78663
H	1.30495	-2.38045	1.34512
C	-1.73175	-1.03607	0.91411
H	-1.81755	-0.94381	-1.32527
H	-0.73700	-1.47302	2.86529
H	-2.66999	-0.59411	1.21284
C	0.71030	1.49883	1.78663
C	1.73175	1.03607	0.91411
C	-0.36955	1.97278	0.99572



H	0.73700	1.47302	2.86529
C	1.29271	1.21865	-0.42360
H	2.66999	0.59411	1.21284
C	0.00000	1.80045	-0.36376
H	-1.30495	2.38045	1.34512
H	1.81755	0.94381	-1.32527
Cl	0.94377	-2.27602	-1.71727
Cl	-0.94377	2.27602	-1.71727

21  
Energy: -1612199.5029724

Fe	0.00000	0.00000	0.00000
C	-0.80184	1.87641	0.00000
C	0.00000	1.69195	1.15546
C	0.00000	1.69195	-1.15546
C	1.31595	1.39731	0.70951
H	-0.34514	1.75320	2.17554
C	1.31595	1.39731	-0.70951
H	-0.34514	1.75320	-2.17554
H	2.16132	1.17348	1.34226
H	2.16132	1.17348	-1.34226
C	0.00000	-1.69195	1.15546
C	-1.31595	-1.39731	0.70951
C	0.80184	-1.87641	0.00000
H	0.34514	-1.75320	2.17554
C	-1.31595	-1.39731	-0.70951
H	-2.16132	-1.17348	1.34226
C	0.00000	-1.69195	-1.15546
H	-2.16132	-1.17348	-1.34226
H	0.34514	-1.75320	-2.17554
Cl	-2.46676	2.29759	0.00000
Cl	2.46676	-2.29759	0.00000

21  
Energy: -1323881.1856628

Fe	-0.23610	-0.42913	0.00000
C	1.39767	0.78530	0.00000
C	1.40798	-0.03728	1.15584
C	1.40798	-0.03728	-1.15584
C	1.43014	-1.38513	0.71000
H	1.38766	0.31258	2.17592
C	1.43014	-1.38513	-0.71000
H	1.38766	0.31258	-2.17592
H	1.41948	-2.25824	1.34452
H	1.41948	-2.25824	-1.34452
C	-1.89212	-0.80630	1.14842
C	-1.89212	0.54446	0.70948
C	-1.89308	-1.64086	0.00000
H	-1.86425	-1.13990	2.17470
C	-1.89212	0.54446	-0.70948
H	-1.85630	1.41872	1.34175
C	-1.89212	-0.80630	-1.14842
H	-1.86561	-2.72002	0.00000
H	-1.85630	1.41872	-1.34175
H	-1.86425	-1.13990	-2.17470
Cl	1.42100	2.50326	0.00000

21  
 Energy: -1612199.8905097

Fe	0.00000	0.00000	0.58776
C	0.00000	-1.80047	-0.36376
C	0.36956	-1.97278	0.99572
C	-1.29270	-1.21866	-0.42362
C	-0.71029	-1.49882	1.78662
H	1.30495	-2.38049	1.34511
C	-1.73174	-1.03607	0.91409
H	-1.81755	-0.94385	-1.32529
H	-0.73703	-1.47299	2.86528
H	-2.66996	-0.59408	1.21284
C	1.73174	1.03607	0.91409
C	1.29270	1.21866	-0.42362
C	0.71029	1.49882	1.78662
H	2.66996	0.59408	1.21284
C	0.00000	1.80047	-0.36376
H	1.81755	0.94385	-1.32529
C	-0.36956	1.97278	0.99572
H	0.73703	1.47299	2.86528
H	-1.30495	2.38049	1.34511
Cl	0.94379	-2.27606	-1.71725
Cl	-0.94379	2.27606	-1.71725

21  
 Energy: -2765467.0131865

Fe	0.00000	0.00000	0.22421
C	0.36893	1.72948	1.24663
C	1.53506	0.92307	1.18939
C	0.00000	2.01751	-0.09389
H	-0.14910	2.05307	2.13539
C	1.88576	0.69433	-0.16589
C	0.93540	1.38623	-0.96297
C	-1.53506	-0.92307	1.18939
C	-1.88576	-0.69433	-0.16589
C	-0.36893	-1.72948	1.24663
C	-0.93540	-1.38623	-0.96297
H	-2.71348	-0.10512	-0.52735
C	0.00000	-2.01751	-0.09389
H	0.14910	-2.05307	2.13539
H	2.71348	0.10512	-0.52735
Cl	1.28796	-3.02493	-0.58147
Cl	-0.96286	-1.52119	-2.65965
Cl	-2.41505	-0.35970	2.54686
Cl	0.96286	1.52119	-2.65965
Cl	2.41505	0.35970	2.54686
Cl	-1.28796	3.02493	-0.58147

21  
 Energy: -2765466.6546401

Fe	0.00000	0.00000	0.13274
C	-1.59271	0.87498	-0.80390
C	-1.86115	0.72495	0.58070
C	-0.43785	1.69306	-0.91591

H	-2.15175	0.44456	-1.61956
C	-0.87591	1.41929	1.32906
C	0.00000	2.03359	0.39601
C	0.43785	-1.69306	-0.91591
C	1.59271	-0.87498	-0.80390
C	0.00000	-2.03359	0.39601
C	1.86115	-0.72495	0.58070
H	2.15175	-0.44456	-1.61956
C	0.87591	-1.41929	1.32906
H	0.81328	-1.48834	2.40310
H	-0.81328	1.48834	2.40310
Cl	3.20233	0.09981	1.24483
Cl	1.28799	3.08135	0.77337
Cl	-0.25403	-2.25106	-2.37260
Cl	-1.28799	-3.08135	0.77337
Cl	-3.20233	-0.09981	1.24483
Cl	0.25403	2.25106	-2.37260

21  
Energy: -1900516.5060514

Fe	0.48689	0.36200	0.00000
C	-1.18819	0.24225	1.15905
C	-1.43319	1.02326	0.00000
C	-0.79178	-1.04688	0.71201
H	-1.28945	0.55974	2.18420
C	-1.18819	0.24225	-1.15905
C	-0.79178	-1.04688	-0.71201
C	1.96081	1.20267	1.14837
C	2.35325	-0.08978	0.70972
C	1.71627	2.00130	0.00000
H	1.83611	1.51311	2.17457
C	2.35325	-0.08978	-0.70972
H	2.56638	-0.93747	1.34343
C	1.96081	1.20267	-1.14837
H	1.36238	3.02125	0.00000
H	2.56638	-0.93747	-1.34343
H	1.83611	1.51311	-2.17457
H	-1.28945	0.55974	-2.18420
Cl	-0.46631	-2.39526	1.71019
Cl	-2.00592	2.64046	0.00000
Cl	-0.46631	-2.39526	-1.71019

21  
Energy: -2765466.2256433

Fe	0.00000	0.00000	0.29766
C	-1.15688	1.64743	0.67993
C	0.00000	1.65759	1.50023
C	-0.71176	1.66470	-0.66820
H	-2.18229	1.65077	1.01277
C	1.15688	1.64743	0.67993
C	0.71176	1.66470	-0.66820
C	-1.15688	-1.64743	0.67993
C	-0.71176	-1.66470	-0.66820
C	0.00000	-1.65759	1.50023
H	-2.18229	-1.65077	1.01277
C	0.71176	-1.66470	-0.66820

C	1.15688	-1.64743	0.67993
H	2.18229	-1.65077	1.01277
H	2.18229	1.65077	1.01277
Cl	0.00000	-1.75678	3.20613
Cl	-1.70575	-1.78205	-2.04534
Cl	1.70575	-1.78205	-2.04534
Cl	1.70575	1.78205	-2.04534
Cl	-1.70575	1.78205	-2.04534
Cl	0.00000	1.75678	3.20613

21

Energy: -2765467.0131865

Fe	0.00000	0.00000	0.22421
C	0.36892	-1.72948	1.24663
C	0.00000	-2.01751	-0.09390
C	1.53505	-0.92308	1.18939
C	0.93541	-1.38624	-0.96297
C	1.88576	-0.69435	-0.16588
H	2.71349	-0.10514	-0.52734
C	-1.88576	0.69435	-0.16588
C	-1.53505	0.92308	1.18939
C	-0.93541	1.38624	-0.96297
H	-2.71349	0.10514	-0.52734
C	-0.36892	1.72948	1.24663
C	0.00000	2.01751	-0.09390
H	0.14912	2.05307	2.13539
H	-0.14912	-2.05307	2.13539
Cl	-2.41501	0.35968	2.54687
Cl	-0.96286	1.52120	-2.65965
Cl	1.28796	3.02493	-0.58148
Cl	-1.28796	-3.02493	-0.58148
Cl	2.41501	-0.35968	2.54687
Cl	0.96286	-1.52120	-2.65965

21

Energy: -2765466.4203846

Fe	0.00000	0.00000	0.00000
C	0.00000	1.68967	1.15748
C	1.31621	1.39422	0.71141
C	-0.79580	1.88414	0.00000
C	1.31621	1.39422	-0.71141
C	0.00000	1.68967	-1.15748
H	-0.32747	1.75815	-2.18246
C	0.79580	-1.88414	0.00000
C	0.00000	-1.68967	1.15748
C	0.00000	-1.68967	-1.15748
C	-1.31621	-1.39422	0.71141
H	0.32747	-1.75815	2.18246
C	-1.31621	-1.39422	-0.71141
H	0.32747	-1.75815	-2.18246
H	-0.32747	1.75815	2.18246
Cl	2.44660	-2.32797	0.00000
Cl	2.67863	1.15382	1.70770
Cl	-2.44660	2.32797	0.00000
Cl	-2.67863	-1.15382	1.70770
Cl	-2.67863	-1.15382	-1.70770

C1	2.67863	1.15382	-1.70770
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21

Energy: -1900516.0829594

Fe	-0.48393	0.35847	0.00000
C	1.19398	0.24768	1.15883
C	0.80437	-1.04327	0.71176
C	1.43471	1.02956	0.00000
C	0.80437	-1.04327	-0.71176
C	1.19398	0.24768	-1.15883
H	1.28973	0.56686	-2.18404
C	-2.41618	-0.32706	0.00000
C	-2.17824	0.47243	1.14821
C	-2.17824	0.47243	-1.14821
H	-2.68077	-1.37373	0.00000
C	-1.79588	1.76830	0.70924
H	-2.23852	0.14060	2.17368
C	-1.79588	1.76830	-0.70924
H	-2.23852	0.14060	-2.17368
H	-1.51266	2.59605	1.34171
H	-1.51266	2.59605	-1.34171
H	1.28973	0.56686	2.18404
C1	0.47187	-2.38916	1.71032
C1	1.98474	2.65417	0.00000
C1	0.47187	-2.38916	-1.71032

21

Energy: -2765467.0131865

Fe	0.00000	0.00000	0.22421
C	0.36893	-1.72948	1.24663
C	0.00000	-2.01751	-0.09390
C	1.53505	-0.92307	1.18939
C	0.93540	-1.38623	-0.96297
C	1.88576	-0.69433	-0.16589
H	2.71348	-0.10512	-0.52735
C	-0.93540	1.38623	-0.96297
C	-1.88576	0.69433	-0.16589
C	0.00000	2.01751	-0.09390
C	-1.53505	0.92307	1.18939
H	-2.71348	0.10512	-0.52735
C	-0.36893	1.72948	1.24663
H	0.14911	2.05307	2.13539
H	-0.14911	-2.05307	2.13539
C1	-1.28795	-3.02494	-0.58148
C1	2.41504	-0.35970	2.54687
C1	0.96286	-1.52119	-2.65965
C1	-0.96286	1.52119	-2.65965
C1	1.28795	3.02494	-0.58148
C1	-2.41504	0.35970	2.54687

21

Energy: -2188833.1490026

Fe	0.00000	0.00000	0.71740
C	-1.80360	0.19518	1.65333
C	-1.06104	1.40068	1.76150

C	-1.99598	-0.09456	0.27781
H	-2.13948	-0.41482	2.47783
C	-0.79670	1.86134	0.44530
H	-0.73731	1.88802	2.66764
C	-1.37996	0.94166	-0.47189
H	-2.49703	-0.95245	-0.14296
C	1.06104	-1.40068	1.76150
C	0.79670	-1.86134	0.44530
C	1.80360	-0.19518	1.65333
H	0.73731	-1.88802	2.66764
C	1.37996	-0.94166	-0.47189
C	1.99598	0.09456	0.27781
H	2.13948	0.41482	2.47783
H	2.49703	0.95245	-0.14296
Cl	0.00000	-3.31456	0.02995
Cl	1.41307	-1.11566	-2.16672
Cl	-1.41307	1.11566	-2.16672
Cl	0.00000	3.31456	0.02995

21

Energy: -2188833.7933043

Fe	0.00000	0.00000	0.25991
C	0.00000	2.01594	0.58148
C	0.90719	1.37918	1.46803
C	0.39472	1.73044	-0.75121
H	-0.87107	2.58345	0.87199
C	1.87172	0.69691	0.68009
H	0.87861	1.38856	2.54618
C	1.55564	0.91536	-0.69123
H	-0.10224	2.04019	-1.65740
C	-1.87172	-0.69691	0.68009
C	-1.55564	-0.91536	-0.69123
C	-0.90719	-1.37918	1.46803
C	-0.39472	-1.73044	-0.75121
C	0.00000	-2.01594	0.58148
H	-0.87861	-1.38856	2.54618
H	0.10224	-2.04019	-1.65740
H	0.87107	-2.58345	0.87199
Cl	-2.46776	-0.35848	-2.02407
Cl	-3.22691	0.16246	1.26745
Cl	2.46776	0.35848	-2.02407
Cl	3.22691	-0.16246	1.26745

21

Energy: -1612198.9914518

Fe	0.21896	0.70421	0.00000
C	2.17711	0.12004	0.00000
C	1.51402	-0.37695	1.15272
C	1.51402	-0.37695	-1.15272
H	3.02744	0.78461	0.00000
C	0.43541	-1.18842	0.71201
H	1.76193	-0.17869	2.18352
C	0.43541	-1.18842	-0.71201
H	1.76193	-0.17869	-2.18352
C	0.16479	2.75373	0.00000
C	-0.49561	2.24215	-1.14889

C	-0.49561	2.24215	1.14889
H	1.03225	3.39607	0.00000
C	-1.56213	1.41390	-0.70978
H	-0.21667	2.42519	-2.17541
C	-1.56213	1.41390	0.70978
H	-0.21667	2.42519	2.17541
H	-2.22547	0.84443	-1.34331
H	-2.22547	0.84443	1.34331
Cl	-0.62188	-2.08832	-1.71044
Cl	-0.62188	-2.08832	1.71044

21  
Energy: -2188832.5883480

Fe	0.00000	0.00000	0.93170
C	0.00000	1.62732	2.16161
C	1.15187	1.64207	1.33235
C	-1.15187	1.64207	1.33235
H	0.00000	1.58461	3.24004
C	0.71182	1.67580	-0.01660
H	2.18305	1.62626	1.64835
C	-0.71182	1.67580	-0.01660
H	-2.18305	1.62626	1.64835
C	0.00000	-1.62732	2.16161
C	-1.15187	-1.64207	1.33235
C	1.15187	-1.64207	1.33235
H	0.00000	-1.58461	3.24004
C	-0.71182	-1.67580	-0.01660
H	-2.18305	-1.62626	1.64835
C	0.71182	-1.67580	-0.01660
H	2.18305	-1.62626	1.64835
Cl	-1.70643	-1.80635	-1.39434
Cl	1.70643	-1.80635	-1.39434
Cl	1.70643	1.80635	-1.39434
Cl	-1.70643	1.80635	-1.39434

21  
Energy: -2188833.7933043

Fe	0.00000	0.00000	-0.25992
C	-1.55564	-0.91537	0.69123
C	-1.87172	-0.69691	-0.68009
C	-0.39472	-1.73044	0.75120
C	-0.90719	-1.37918	-1.46804
C	0.00000	-2.01594	-0.58149
H	0.10226	-2.04019	1.65739
H	-0.87862	-1.38855	-2.54619
H	0.87108	-2.58344	-0.87200
C	0.00000	2.01594	-0.58149
C	0.39472	1.73044	0.75120
C	0.90719	1.37918	-1.46804
H	-0.87108	2.58344	-0.87200
C	1.55564	0.91537	0.69123
H	-0.10226	2.04019	1.65739
C	1.87172	0.69691	-0.68009
H	0.87862	1.38855	-2.54619
Cl	-2.46775	-0.35849	2.02408
Cl	-3.22691	0.16246	-1.26744

C1	2.46775	0.35849	2.02408
C1	3.22691	-0.16246	-1.26744

21  
Energy: -2188833.5639182

Fe	0.00000	0.00000	0.00000
C	1.31588	1.38949	0.71166
C	1.31588	1.38949	-0.71166
C	0.00000	1.69042	1.15215
C	0.00000	1.69042	-1.15215
C	-0.80661	1.87773	0.00000
H	-0.31611	1.74049	2.18231
H	-0.31611	1.74049	-2.18231
H	-1.86646	2.08224	0.00000
C	0.00000	-1.69042	-1.15215
C	0.80661	-1.87773	0.00000
C	-1.31588	-1.38949	-0.71166
H	0.31611	-1.74049	-2.18231
C	0.00000	-1.69042	1.15215
H	1.86646	-2.08224	0.00000
C	-1.31588	-1.38949	0.71166
H	0.31611	-1.74049	2.18231
C1	2.67979	1.13714	1.70884
C1	-2.67979	-1.13714	1.70884
C1	-2.67979	-1.13714	-1.70884
C1	2.67979	1.13714	-1.70884

21  
Energy: -1612198.4986561

Fe	0.22445	0.70184	0.00000
C	0.43948	-1.19206	0.71180
C	0.43948	-1.19206	-0.71180
C	1.52001	-0.38371	1.15242
C	1.52001	-0.38371	-1.15242
C	2.18415	0.11129	0.00000
H	1.76648	-0.18344	2.18324
H	1.76648	-0.18344	-2.18324
H	3.03460	0.77578	0.00000
C	-1.08589	1.77936	-1.14846
C	-1.74270	1.26501	0.00000
C	-0.02314	2.61281	-0.70974
H	-1.32781	1.54435	-2.17395
C	-1.08589	1.77936	1.14846
H	-2.56547	0.56604	0.00000
C	-0.02314	2.61281	0.70974
H	0.68177	3.12880	-1.34393
H	-1.32781	1.54435	2.17395
H	0.68177	3.12880	1.34393
C1	-0.62941	-2.07716	1.71044
C1	-0.62941	-2.07716	-1.71044

21  
Energy: -2188833.1491909

Fe	0.00000	0.00000	0.72122
C	-0.90307	-1.40509	-0.46865



C	0.00000	-2.02368	0.44188
C	-1.87386	-0.69816	0.28840
C	-0.41804	-1.70924	1.76128
C	-1.57617	-0.89371	1.66177
H	-2.67457	-0.10573	-0.12629
H	0.07586	-2.03308	2.66381
H	-2.12145	-0.46895	2.49061
C	1.87386	0.69816	0.28840
C	0.90307	1.40509	-0.46865
C	1.57617	0.89371	1.66177
H	2.67457	0.10573	-0.12629
C	0.00000	2.02368	0.44188
C	0.41804	1.70924	1.76128
H	2.12145	0.46895	2.49061
H	-0.07586	2.03308	2.66381
Cl	-0.87381	-1.57243	-2.16419
Cl	1.30250	-3.04426	0.01643
Cl	0.87381	1.57243	-2.16419
Cl	-1.30250	3.04426	0.01643

36

Energy: -1158812.4212752

Fe	0.00000	0.00000	0.49822
C	0.71403	-0.98277	-1.14420
C	-0.71403	-0.98277	-1.14420
C	1.15532	0.37539	-1.14420
C	-1.15532	0.37539	-1.14420
C	0.00000	1.21477	-1.14420
C	0.71025	-0.97758	2.15499
C	1.14922	0.37340	2.15499
C	-0.71025	-0.97758	2.15499
H	1.34485	-1.85102	2.13486
C	0.00000	1.20836	2.15499
H	2.17601	0.70703	2.13486
C	-1.14922	0.37340	2.15499
H	-1.34485	-1.85102	2.13486
H	0.00000	2.28799	2.13486
H	-2.17601	0.70703	2.13486
C	0.00000	2.70485	-1.19286
H	0.00000	3.06450	-2.22790
H	-0.88068	3.12367	-0.70262
H	0.88068	3.12367	-0.70262
C	-2.57246	0.83584	-1.19286
H	-3.24293	0.12769	-0.70262
H	-2.69864	1.80284	-0.70262
H	-2.91451	0.94698	-2.22790
C	2.57246	0.83584	-1.19286
H	2.91451	0.94698	-2.22790
H	2.69864	1.80284	-0.70262
H	3.24293	0.12769	-0.70262
C	-1.58987	-2.18827	-1.19286
H	-2.54853	-2.00945	-0.70262
H	-1.80127	-2.47923	-2.22790
H	-1.12356	-3.04475	-0.70262
C	1.58987	-2.18827	-1.19286
H	1.80127	-2.47923	-2.22790
H	2.54853	-2.00945	-0.70262

H	1.12356	-3.04475	-0.70262
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51

Energy: -1282059.6721475

Fe	0.00000	0.00000	0.00000
C	-0.71348	-0.98202	1.66128
C	0.71348	-0.98202	1.66128
C	-1.15444	0.37510	1.66128
C	1.15444	0.37510	1.66128
C	0.00000	1.21385	1.66128
C	-0.71348	-0.98202	-1.66128
C	-1.15444	0.37510	-1.66128
C	0.71348	-0.98202	-1.66128
C	0.00000	1.21385	-1.66128
C	1.15444	0.37510	-1.66128
C	0.00000	2.70118	1.75319
H	0.00000	3.02775	2.79924
H	0.88023	3.13729	1.27746
H	-0.88023	3.13729	1.27746
C	2.56897	0.83471	1.75319
H	3.25575	0.13233	1.27746
H	2.71174	1.80662	1.27746
H	2.87956	0.93563	2.79924
C	-2.56897	0.83471	1.75319
H	-2.87956	0.93563	2.79924
H	-2.71174	1.80662	1.27746
H	-3.25575	0.13233	1.27746
C	1.58771	-2.18530	1.75319
H	2.55617	-2.02074	1.27746
H	1.77967	-2.44950	2.79924
H	1.13193	-3.05551	1.27746
C	-1.58771	-2.18530	1.75319
H	-1.77967	-2.44950	2.79924
H	-2.55617	-2.02074	1.27746
H	-1.13193	-3.05551	1.27746
C	0.00000	2.70118	-1.75319
H	-0.88023	3.13729	-1.27746
H	0.88023	3.13729	-1.27746
H	0.00000	3.02775	-2.79924
C	-2.56897	0.83471	-1.75319
H	-2.71174	1.80662	-1.27746
H	-2.87956	0.93563	-2.79924
H	-3.25575	0.13233	-1.27746
C	-1.58771	-2.18530	-1.75319
H	-2.55617	-2.02074	-1.27746
H	-1.77967	-2.44950	-2.79924
H	-1.13193	-3.05551	-1.27746
C	1.58771	-2.18530	-1.75319
H	1.13193	-3.05551	-1.27746
H	1.77967	-2.44950	-2.79924
H	2.55617	-2.02074	-1.27746
C	2.56897	0.83471	-1.75319
H	3.25575	0.13233	-1.27746
H	2.87956	0.93563	-2.79924
H	2.71174	1.80662	-1.27746

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Energy: -1282059.8828338

Fe	0.00000	0.00000	0.00000
C	-1.04230	-0.62214	1.66006
C	0.26960	-1.18354	1.66006
C	-0.91378	0.79904	1.66006
C	1.20893	-0.10933	1.66006
C	0.47756	1.11597	1.66006
C	-1.20893	-0.10933	-1.66006
C	-0.47756	1.11597	-1.66006
C	-0.26960	-1.18354	-1.66006
C	0.91378	0.79904	-1.66006
C	1.04230	-0.62214	-1.66006
C	1.06220	2.48497	1.73670
H	1.17253	2.80667	2.77848
H	2.05124	2.52871	1.27762
H	0.43196	3.22259	1.23566
C	2.69159	-0.24232	1.73670
H	3.03881	-1.16943	1.27762
H	3.19835	0.58501	1.23566
H	3.03163	-0.24783	2.77848
C	-2.03511	1.77811	1.73670
H	-2.30697	1.98245	2.77848
H	-1.77108	2.73226	1.27762
H	-2.93138	1.40666	1.23566
C	0.60129	-2.63473	1.73670
H	1.54472	-2.86103	1.23566
H	0.70112	-2.95983	2.77848
H	-0.17315	-3.25146	1.27762
C	-2.31997	-1.38604	1.73670
H	-2.59831	-1.58145	2.77848
H	-3.14582	-0.84008	1.27762
H	-2.24366	-2.35323	1.23566
C	2.03511	1.77811	-1.73670
H	1.77108	2.73226	-1.27762
H	2.93138	1.40666	-1.23566
H	2.30697	1.98245	-2.77848
C	-1.06220	2.48497	-1.73670
H	-0.43196	3.22259	-1.23566
H	-1.17253	2.80667	-2.77848
H	-2.05124	2.52871	-1.27762
C	-2.69159	-0.24232	-1.73670
H	-3.19835	0.58501	-1.23566
H	-3.03163	-0.24783	-2.77848
H	-3.03881	-1.16943	-1.27762
C	-0.60129	-2.63473	-1.73670
H	-1.54472	-2.86103	-1.23566
H	-0.70112	-2.95983	-2.77848
H	0.17315	-3.25146	-1.27762
C	2.31997	-1.38604	-1.73670
H	2.24366	-2.35323	-1.23566
H	2.59831	-1.58145	-2.77848
H	3.14582	-0.84008	-1.27762

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Energy: -1158811.9411677

Fe	0.00000	0.00000	0.49568
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C	0.00000	1.21444	-1.14954
C	1.15500	0.37528	-1.14954
C	-1.15500	0.37528	-1.14954
C	0.71383	-0.98250	-1.14954
C	-0.71383	-0.98250	-1.14954
C	1.14898	-0.37333	2.15605
C	0.71011	0.97738	2.15605
C	0.00000	-1.20810	2.15605
H	2.17576	-0.70695	2.13688
C	-0.71011	0.97738	2.15605
H	1.34470	1.85082	2.13688
C	-1.14898	-0.37333	2.15605
H	0.00000	-2.28773	2.13688
H	-1.34470	1.85082	2.13688
H	-2.17576	-0.70695	2.13688
C	0.00000	2.70452	-1.18968
H	0.00000	3.07074	-2.22234
H	-0.88051	3.12013	-0.69651
H	0.88051	3.12013	-0.69651
C	2.57215	0.83574	-1.18968
H	2.92045	0.94891	-2.22234
H	2.69533	1.80159	-0.69651
H	3.23951	0.12676	-0.69651
C	1.58968	-2.18800	-1.18968
H	1.80494	-2.48428	-2.22234
H	2.54631	-2.00669	-0.69651
H	1.12162	-3.04179	-0.69651
C	-2.57215	0.83574	-1.18968
H	-2.69533	1.80159	-0.69651
H	-2.92045	0.94891	-2.22234
H	-3.23951	0.12676	-0.69651
C	-1.58968	-2.18800	-1.18968
H	-1.12162	-3.04179	-0.69651
H	-2.54631	-2.00669	-0.69651
H	-1.80494	-2.48428	-2.22234

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Energy: -1282059.8321059

Fe	0.00000	0.00000	0.00000
C	0.00000	1.21380	1.66107
C	-1.15439	0.37508	1.66107
C	1.15439	0.37508	1.66107
C	-0.71345	-0.98198	1.66107
C	0.71345	-0.98198	1.66107
C	-1.15439	-0.37508	-1.66107
C	-0.71345	0.98198	-1.66107
C	0.00000	-1.21380	-1.66107
C	0.71345	0.98198	-1.66107
C	1.15439	-0.37508	-1.66107
C	0.00000	2.70257	1.73534
H	0.00000	3.04380	2.77676
H	0.88135	3.13115	1.25458
H	-0.88135	3.13115	1.25458
C	-2.57029	0.83514	1.73534
H	-2.89482	0.94059	2.77676
H	-2.70555	1.80580	1.25458
H	-3.25025	0.12936	1.25458

C	-1.58853	-2.18642	1.73534
H	-1.78910	-2.46248	2.77676
H	-2.55347	-2.01511	1.25458
H	-1.12741	-3.05120	1.25458
C	2.57029	0.83514	1.73534
H	2.70555	1.80580	1.25458
H	2.89482	0.94059	2.77676
H	3.25025	0.12936	1.25458
C	1.58853	-2.18642	1.73534
H	1.12741	-3.05120	1.25458
H	2.55347	-2.01511	1.25458
H	1.78910	-2.46248	2.77676
C	0.00000	-2.70257	-1.73534
H	0.00000	-3.04380	-2.77676
H	0.88135	-3.13115	-1.25458
H	-0.88135	-3.13115	-1.25458
C	-2.57029	-0.83514	-1.73534
H	-2.89482	-0.94059	-2.77676
H	-2.70555	-1.80580	-1.25458
H	-3.25025	-0.12936	-1.25458
C	2.57029	-0.83514	-1.73534
H	2.70555	-1.80580	-1.25458
H	2.89482	-0.94059	-2.77676
H	3.25025	-0.12936	-1.25458
C	1.58853	2.18642	-1.73534
H	2.55347	2.01511	-1.25458
H	1.78910	2.46248	-2.77676
H	1.12741	3.05120	-1.25458
C	-1.58853	2.18642	-1.73534
H	-1.78910	2.46248	-2.77676
H	-2.55347	2.01511	-1.25458
H	-1.12741	3.05120	-1.25458

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Energy: -1134163.4519249

Fe	0.00000	0.00000	0.05581
C	-0.70786	-1.63497	1.04885
C	-1.14642	-1.65388	-0.30233
C	0.71487	-1.63898	1.06045
H	-1.34238	-1.59240	1.92270
C	-0.00248	-1.67301	-1.14742
H	-2.17338	-1.63314	-0.63766
C	1.13964	-1.66182	-0.29779
C	-0.71487	1.63898	1.06045
C	0.70786	1.63497	1.04885
C	-1.13964	1.66182	-0.29779
C	1.14642	1.65388	-0.30233
H	1.34238	1.59240	1.92270
C	0.00248	1.67301	-1.14742
H	-2.16791	1.64931	-0.63198
H	2.17338	1.63314	-0.63766
C	0.00000	-1.77042	-2.63392
H	-0.88537	-1.30081	-3.06689
H	0.88129	-1.29187	-3.06544
H	0.00561	-2.81813	-2.95179
H	2.16791	-1.64931	-0.63198
C	1.59289	-1.66816	2.26459

H	2.54555	-1.16962	2.07465
H	1.11753	-1.17580	3.11545
H	1.81284	-2.69907	2.56084
C	0.00000	1.77042	-2.63392
H	0.88537	1.30081	-3.06689
H	-0.88129	1.29187	-3.06544
H	-0.00561	2.81813	-2.95179
C	-1.59289	1.66816	2.26459
H	-2.54555	1.16962	2.07465
H	-1.11753	1.17580	3.11545
H	-1.81284	2.69907	2.56084

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Energy: -1134163.6728082

Fe	0.00000	0.00000	0.18353
C	1.70135	-1.06633	0.55376
C	0.64379	-1.51969	1.38758
C	1.30824	-1.23428	-0.80318
H	2.63557	-0.63786	0.88785
C	-0.42006	-1.97394	0.55964
H	0.63176	-1.49742	2.46775
C	0.00000	-1.79585	-0.78905
C	0.42006	1.97394	0.55964
C	0.00000	1.79585	-0.78905
C	-0.64379	1.51969	1.38758
C	-1.30824	1.23428	-0.80318
H	0.59259	2.02369	-1.66467
C	-1.70135	1.06633	0.55376
H	-0.63176	1.49742	2.46775
H	-2.63557	0.63786	0.88785
C	-1.70641	-2.57239	1.01655
H	-2.00871	-2.17122	1.98594
H	-2.51098	-2.37760	0.30450
H	-1.61496	-3.65840	1.12209
H	-0.59259	-2.02369	-1.66467
C	2.12998	-0.93129	-2.00920
H	2.82105	-0.10680	-1.82242
H	2.72599	-1.80158	-2.30289
H	1.50251	-0.65974	-2.86058
C	-2.12998	0.93129	-2.00920
H	-2.72599	1.80158	-2.30289
H	-1.50251	0.65974	-2.86058
H	-2.82105	0.10680	-1.82242
C	1.70641	2.57239	1.01655
H	2.51098	2.37760	0.30450
H	1.61496	3.65840	1.12209
H	2.00871	2.17122	1.98594

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Energy: -1084863.5274328

Fe	-0.09498	0.25680	0.00000
C	-1.28541	-1.23978	0.71042
C	-1.28541	-1.23978	-0.71042
C	0.05094	-1.42674	1.16111
H	-2.14672	-1.09156	1.34564
C	0.05094	-1.42674	-1.16111

H	-2.14672	-1.09156	-1.34564
C	0.86653	-1.54319	0.00000
C	-0.83448	2.03095	0.71009
C	0.50326	1.84286	1.14927
C	-0.83448	2.03095	-0.71009
H	-1.70255	2.13053	1.34398
C	1.32995	1.72767	0.00000
H	0.83072	1.77457	2.17588
C	0.50326	1.84286	-1.14927
H	-1.70255	2.13053	-1.34398
H	2.39586	1.55679	0.00000
H	0.83072	1.77457	-2.17588
C	0.50368	-1.53247	-2.57715
H	-0.13739	-0.95176	-3.24332
H	1.52798	-1.17334	-2.69508
H	0.47731	-2.57293	-2.91706
H	1.94039	-1.66935	0.00000
C	0.50368	-1.53247	2.57715
H	1.52798	-1.17334	2.69508
H	-0.13739	-0.95176	3.24332
H	0.47731	-2.57293	2.91706

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Energy: -1134163.1290211

Fe	0.00000	0.00000	0.21576
C	-0.71010	1.64321	1.20104
C	0.71010	1.64321	1.20104
C	-1.16071	1.66276	-0.14802
H	-1.34541	1.60903	2.07436
C	1.16071	1.66276	-0.14802
H	1.34541	1.60903	2.07436
C	0.00000	1.66897	-0.97142
C	-0.71010	-1.64321	1.20104
C	-1.16071	-1.66276	-0.14802
C	0.71010	-1.64321	1.20104
H	-1.34541	-1.60903	2.07436
C	0.00000	-1.66897	-0.97142
C	1.16071	-1.66276	-0.14802
H	1.34541	-1.60903	2.07436
H	0.00000	-1.66517	-2.05277
C	2.57418	1.75055	-0.60970
H	3.25685	1.27548	0.09735
H	2.70887	1.27340	-1.58231
H	2.88117	2.79659	-0.71112
H	0.00000	1.66517	-2.05277
C	-2.57418	1.75055	-0.60970
H	-2.88117	2.79659	-0.71112
H	-2.70887	1.27340	-1.58231
H	-3.25685	1.27548	0.09735
C	2.57418	-1.75055	-0.60970
H	2.70887	-1.27340	-1.58231
H	3.25685	-1.27548	0.09735
H	2.88117	-2.79659	-0.71112
C	-2.57418	-1.75055	-0.60970
H	-3.25685	-1.27548	0.09735
H	-2.70887	-1.27340	-1.58231
H	-2.88117	-2.79659	-0.71112

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Energy: -1134163.6619586

Fe	0.00000	0.00000	0.18378
C	-0.74046	1.87751	0.55980
C	-0.99151	1.49704	-0.78904
C	-1.37665	0.91119	1.38744
C	-1.77181	0.30622	-0.80351
C	-2.00740	-0.05088	0.55332
H	-1.35486	0.89931	2.46762
H	-2.54983	-0.92394	0.88718
C	0.99151	-1.49704	-0.78904
C	1.77181	-0.30622	-0.80351
C	0.74046	-1.87751	0.55980
H	0.62279	-2.01421	-1.66446
C	2.00740	0.05088	0.55332
C	1.37665	-0.91119	1.38744
H	2.54983	0.92394	0.88718
H	1.35486	-0.89931	2.46762
C	0.00000	3.08758	1.01720
H	-0.67745	3.94116	1.12404
H	0.47467	2.92022	1.98607
H	0.77721	3.37175	0.30483
H	-0.62279	2.01421	-1.66446
C	-2.28895	-0.40033	-2.00969
H	-1.61258	-0.28545	-2.85919
H	-2.41545	-1.46829	-1.82081
H	-3.26364	-0.00003	-2.30741
C	2.28895	0.40033	-2.00969
H	1.61258	0.28545	-2.85919
H	2.41545	1.46829	-1.82081
H	3.26364	0.00003	-2.30741
C	0.00000	-3.08758	1.01720
H	-0.77721	-3.37175	0.30483
H	0.67745	-3.94116	1.12404
H	-0.47467	-2.92022	1.98607

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Energy: -1134162.9601081

Fe	0.00000	0.00000	0.00000
C	-0.39276	1.65417	1.16037
C	0.34691	2.01721	0.00000
C	-1.60128	1.05571	0.71057
C	-0.39276	1.65417	-1.16037
C	-1.60128	1.05571	-0.71057
H	-2.37284	0.64544	1.34624
H	-2.37284	0.64544	-1.34624
C	1.60128	-1.05571	-0.71057
C	1.60128	-1.05571	0.71057
C	0.39276	-1.65417	-1.16037
H	2.37284	-0.64544	-1.34624
C	0.39276	-1.65417	1.16037
H	2.37284	-0.64544	1.34624
C	-0.34691	-2.01721	0.00000
H	-1.32697	-2.47409	0.00000
C	0.00000	1.90696	2.57557



H	-0.32638	2.90154	2.89666
H	-0.45424	1.17917	3.25056
H	1.08343	1.85919	2.70380
H	1.32697	2.47409	0.00000
C	0.00000	1.90696	-2.57557
H	1.08343	1.85919	-2.70380
H	-0.45424	1.17917	-3.25056
H	-0.32638	2.90154	-2.89666
C	0.00000	-1.90696	2.57557
H	0.45424	-1.17917	3.25056
H	-1.08343	-1.85919	2.70380
H	0.32638	-2.90154	2.89666
C	0.00000	-1.90696	-2.57557
H	-1.08343	-1.85919	-2.70380
H	0.45424	-1.17917	-3.25056
H	0.32638	-2.90154	-2.89666

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Energy: -1084862.9493272

Fe	0.09589	0.25575	0.00000
C	-0.05167	-1.43101	1.16070
C	-0.86725	-1.54618	0.00000
C	1.28448	-1.24594	0.71024
C	-0.05167	-1.43101	-1.16070
C	1.28448	-1.24594	-0.71024
H	2.14541	-1.09548	1.34557
H	2.14541	-1.09548	-1.34557
C	-1.09992	1.76272	-0.71038
C	-1.09992	1.76272	0.71038
C	0.23708	1.95009	-1.14873
H	-1.96163	1.61964	-1.34489
C	0.23708	1.95009	1.14873
H	-1.96163	1.61964	1.34489
C	1.06420	2.06427	0.00000
H	0.57068	1.97324	-2.17530
H	0.57068	1.97324	2.17530
H	2.13655	2.18826	0.00000
C	-0.50567	-1.52874	2.57675
H	-0.48288	-2.56753	2.92183
H	0.13660	-0.94661	3.24049
H	-1.52879	-1.16550	2.69220
H	-1.94177	-1.66730	0.00000
C	-0.50567	-1.52874	-2.57675
H	-1.52879	-1.16550	-2.69220
H	0.13660	-0.94661	-3.24049
H	-0.48288	-2.56753	-2.92183

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Energy: -1134163.6619586

Fe	0.00000	0.00000	0.18378
C	-0.74046	1.87751	0.55979
C	-0.99151	1.49703	-0.78905
C	-1.37665	0.91119	1.38744
C	-1.77182	0.30621	-0.80351
C	-2.00740	-0.05087	0.55333
H	-1.35485	0.89932	2.46762

H	-2.54982	-0.92395	0.88719
C	1.77182	-0.30621	-0.80351
C	2.00740	0.05087	0.55333
C	0.99151	-1.49703	-0.78905
C	1.37665	-0.91119	1.38744
H	2.54982	0.92395	0.88719
C	0.74046	-1.87751	0.55979
H	0.62279	-2.01419	-1.66447
H	1.35485	-0.89932	2.46762
C	0.00000	3.08758	1.01719
H	-0.67745	3.94116	1.12402
H	0.47465	2.92022	1.98607
H	0.77723	3.37174	0.30483
H	-0.62279	2.01419	-1.66447
C	-2.28895	-0.40036	-2.00968
H	-1.61258	-0.28547	-2.85918
H	-2.41544	-1.46831	-1.82079
H	-3.26365	-0.00007	-2.30739
C	2.28895	0.40036	-2.00968
H	3.26365	0.00007	-2.30739
H	1.61258	0.28547	-2.85918
H	2.41544	1.46831	-1.82079
C	0.00000	-3.08758	1.01719
H	-0.77723	-3.37174	0.30483
H	0.67745	-3.94116	1.12402
H	-0.47465	-2.92022	1.98607

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Energy: -1084863.5236050

Fe	0.00000	0.00000	0.33746
C	-0.64289	1.52025	1.54505
C	0.41190	1.96748	0.70693
C	-1.70141	1.07221	0.71036
H	-0.63112	1.49724	2.62425
C	0.00000	1.79306	-0.64150
H	1.36825	2.34531	1.03569
C	-1.31052	1.23706	-0.64835
H	-2.63764	0.64969	1.04514
H	0.58940	2.01749	-1.51905
C	0.64289	-1.52025	1.54505
C	-0.41190	-1.96748	0.70693
C	1.70141	-1.07221	0.71036
H	0.63112	-1.49724	2.62425
C	0.00000	-1.79306	-0.64150
H	-1.36825	-2.34531	1.03569
C	1.31052	-1.23706	-0.64835
H	2.63764	-0.64969	1.04514
H	-0.58940	-2.01749	-1.51905
C	-2.13834	0.93488	-1.85041
H	-1.51427	0.67417	-2.70757
H	-2.82111	0.10364	-1.66383
H	-2.74306	1.80232	-2.13411
C	2.13834	-0.93488	-1.85041
H	2.82111	-0.10364	-1.66383
H	2.74306	-1.80232	-2.13411
H	1.51427	-0.67417	-2.70757

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Energy: -1084863.4957938

Fe	0.00000	0.00000	0.13067
C	-1.52660	-0.94324	1.10895
C	-1.88736	-0.68729	-0.24012
C	-0.36649	-1.76290	1.10109
H	-2.02694	-0.55921	1.98509
C	-0.94852	-1.35143	-1.07435
H	-2.71126	-0.07376	-0.57296
C	0.00000	-2.02001	-0.25017
H	0.16870	-2.11224	1.97209
H	-0.93492	-1.33233	-2.15449
C	0.36649	1.76290	1.10109
C	1.52660	0.94324	1.10895
C	0.00000	2.02001	-0.25017
H	-0.16870	2.11224	1.97209
C	1.88736	0.68729	-0.24012
H	2.02694	0.55921	1.98509
C	0.94852	1.35143	-1.07435
H	2.71126	0.07376	-0.57296
H	0.93492	1.33233	-2.15449
C	1.13136	-2.87212	-0.71465
H	0.81279	-3.91337	-0.82854
H	1.51070	-2.53582	-1.68161
H	1.95888	-2.85657	-0.00269
C	-1.13136	2.87212	-0.71465
H	-1.51070	2.53582	-1.68161
H	-1.95888	2.85657	-0.00269
H	-0.81279	3.91337	-0.82854

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Energy: -1060213.3937010

Fe	0.16248	-0.20327	0.00000
C	1.67115	0.97753	0.70979
C	1.67115	0.97753	-0.70979
C	0.41201	1.47082	1.14466
H	2.47354	0.63521	1.34565
C	0.41201	1.47082	-1.14466
H	2.47354	0.63521	-1.34565
C	-0.37634	1.77840	0.00000
H	0.09044	1.57061	2.17120
H	0.09044	1.57061	-2.17120
C	0.47260	-2.09933	0.71018
C	-0.78538	-1.60742	1.14905
C	0.47260	-2.09933	-0.71018
H	1.29398	-2.39587	1.34466
C	-1.56296	-1.30274	0.00000
H	-1.08742	-1.46516	2.17560
C	-0.78538	-1.60742	-1.14905
H	1.29398	-2.39587	-1.34466
H	-2.56010	-0.88845	0.00000
H	-1.08742	-1.46516	-2.17560
C	-1.74804	2.36140	0.00000
H	-1.70524	3.45536	0.00000
H	-2.31046	2.05351	-0.88363
H	-2.31046	2.05351	0.88363

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Energy: -1084863.2950159

Fe	0.00000	0.00000	0.40374
C	-0.70985	1.63702	1.39850
C	0.70985	1.63702	1.39850
C	-1.14451	1.65844	0.04656
H	-1.34574	1.59608	2.26990
C	1.14451	1.65844	0.04656
H	1.34574	1.59608	2.26990
C	0.00000	1.67489	-0.79939
H	-2.17108	1.64293	-0.28980
H	2.17108	1.64293	-0.28980
C	-0.70985	-1.63702	1.39850
C	-1.14451	-1.65844	0.04656
C	0.70985	-1.63702	1.39850
H	-1.34574	-1.59608	2.26990
C	0.00000	-1.67489	-0.79939
H	-2.17108	-1.64293	-0.28980
C	1.14451	-1.65844	0.04656
H	1.34574	-1.59608	2.26990
H	2.17108	-1.64293	-0.28980
C	0.00000	1.77469	-2.28577
H	0.00000	2.82302	-2.60119
H	0.88345	1.30160	-2.71868
H	-0.88345	1.30160	-2.71868
C	0.00000	-1.77469	-2.28577
H	0.00000	-2.82302	-2.60119
H	-0.88345	-1.30160	-2.71868
H	0.88345	-1.30160	-2.71868

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Energy: -1084863.2950159

Fe	-0.40374	-0.00001	0.00000
C	-1.39850	0.70985	1.63702
C	-1.39850	-0.70984	1.63703
C	-0.04656	1.14451	1.65844
H	-2.26990	1.34574	1.59608
C	-0.04656	-1.14451	1.65845
H	-2.26990	-1.34573	1.59610
C	0.79939	0.00000	1.67489
H	0.28980	2.17108	1.64293
H	0.28979	-2.17108	1.64296
C	-1.39850	0.70985	-1.63702
C	-0.04656	1.14451	-1.65844
C	-1.39850	-0.70984	-1.63703
H	-2.26990	1.34574	-1.59608
C	0.79939	0.00000	-1.67489
H	0.28980	2.17108	-1.64293
C	-0.04656	-1.14451	-1.65845
H	-2.26990	-1.34573	-1.59610
H	0.28979	-2.17108	-1.64296
C	2.28577	0.00000	1.77469
H	2.60119	0.00001	2.82302
H	2.71868	-0.88345	1.30160
H	2.71869	0.88345	1.30158

C	2.28577	0.00000	-1.77469
H	2.60119	0.00001	-2.82302
H	2.71869	0.88345	-1.30158
H	2.71868	-0.88345	-1.30160

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Energy: -1084863.5200659

Fe	0.00000	0.00000	0.33761
C	0.00000	1.80168	-0.64892
C	-0.39014	1.97307	0.70920
C	1.30438	1.23141	-0.64015
C	0.66155	1.51202	1.54545
H	-1.34079	2.36327	1.04253
C	1.71227	1.05247	0.70888
H	1.87370	0.95724	-1.51681
H	0.65155	1.48802	2.62464
H	2.64338	0.61718	1.03904
C	-0.66155	-1.51202	1.54545
C	-1.71227	-1.05247	0.70888
C	0.39014	-1.97307	0.70920
H	-0.65155	-1.48802	2.62464
C	-1.30438	-1.23141	-0.64015
H	-2.64338	-0.61718	1.03904
C	0.00000	-1.80168	-0.64892
H	1.34079	-2.36327	1.04253
H	-1.87370	-0.95724	-1.51681
C	-0.78663	2.19532	-1.85219
H	-0.56934	3.22976	-2.13742
H	-0.54817	1.56084	-2.70819
H	-1.86002	2.12304	-1.66626
C	0.78663	-2.19532	-1.85219
H	0.54817	-1.56084	-2.70819
H	1.86002	-2.12304	-1.66626
H	0.56934	-3.22976	-2.13742

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Energy: -1084860.2770907

Fe	0.00000	0.00000	0.00000
C	-0.82295	1.89535	0.00000
C	0.00000	1.70001	1.14368
C	0.00000	1.70001	-1.14368
C	1.31743	1.39186	0.70935
H	-0.33228	1.75711	2.17020
C	1.31743	1.39186	-0.70935
H	-0.33228	1.75711	-2.17020
H	2.16065	1.17200	1.34704
H	2.16065	1.17200	-1.34704
C	0.00000	-1.70001	1.14368
C	-1.31743	-1.39186	0.70935
C	0.82295	-1.89535	0.00000
H	0.33228	-1.75711	2.17020
C	-1.31743	-1.39186	-0.70935
H	-2.16065	-1.17200	1.34704
C	0.00000	-1.70001	-1.14368
H	-2.16065	-1.17200	-1.34704
H	0.33228	-1.75711	-2.17020

C	-2.27356	2.26257	0.00000
H	-2.52179	2.85789	-0.88109
H	-2.92613	1.38696	0.00000
H	-2.52179	2.85789	0.88109
C	2.27356	-2.26257	0.00000
H	2.52179	-2.85789	-0.88109
H	2.92613	-1.38696	0.00000
H	2.52179	-2.85789	0.88109

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Energy: -1060212.7781707

Fe	0.16356	-0.20248	0.00000
C	-0.38031	1.78075	0.00000
C	0.40872	1.47589	1.14430
C	0.40872	1.47589	-1.14430
C	1.66929	0.98740	0.70954
H	0.08539	1.57135	2.17076
C	1.66929	0.98740	-0.70954
H	0.08539	1.57135	-2.17076
H	2.47168	0.64472	1.34535
H	2.47168	0.64472	-1.34535
C	-0.08521	-1.88255	1.14873
C	-1.34511	-1.39553	0.70982
C	0.69249	-2.18436	0.00000
H	0.23539	-1.97847	2.17504
C	-1.34511	-1.39553	-0.70982
H	-2.15120	-1.05888	1.34427
C	-0.08521	-1.88255	-1.14873
H	1.70858	-2.54897	0.00000
H	-2.15120	-1.05888	-1.34427
H	0.23539	-1.97847	-2.17504
C	-1.75594	2.35391	0.00000
H	-1.72090	3.44810	0.00000
H	-2.31622	2.04192	-0.88353
H	-2.31622	2.04192	0.88353

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Energy: -1084863.5200659

Fe	0.00000	0.00000	0.33761
C	0.00000	1.80168	-0.64893
C	-0.39017	1.97306	0.70918
C	1.30438	1.23142	-0.64013
C	0.66150	1.51203	1.54545
H	-1.34084	2.36327	1.04247
C	1.71225	1.05249	0.70891
H	1.87375	0.95729	-1.51677
H	0.65147	1.48803	2.62464
H	2.64335	0.61722	1.03911
C	-1.71225	-1.05249	0.70891
C	-1.30438	-1.23142	-0.64013
C	-0.66150	-1.51203	1.54545
H	-2.64335	-0.61722	1.03911
C	0.00000	-1.80168	-0.64893
H	-1.87375	-0.95729	-1.51677
C	0.39017	-1.97306	0.70918
H	-0.65147	-1.48803	2.62464

H	1.34084	-2.36327	1.04247
C	-0.78661	2.19533	-1.85221
H	-1.86000	2.12305	-1.66630
H	-0.56931	3.22976	-2.13743
H	-0.54813	1.56084	-2.70821
C	0.78661	-2.19533	-1.85221
H	0.56931	-3.22976	-2.13743
H	0.54813	-1.56084	-2.70821
H	1.86000	-2.12305	-1.66630

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Energy: -1183462.4630142

Fe	0.00000	0.00000	0.40284
C	0.65642	-1.48806	1.63108
C	-0.39855	-1.95852	0.80752
C	1.71903	-1.05179	0.79285
H	0.64811	-1.43542	2.71027
C	0.00000	-1.82383	-0.55088
H	-1.35419	-2.33264	1.14642
C	1.31422	-1.26213	-0.56142
C	-0.65642	1.48806	1.63108
C	0.39855	1.95852	0.80752
C	-1.71903	1.05179	0.79285
H	-0.64811	1.43542	2.71027
C	0.00000	1.82383	-0.55088
H	1.35419	2.33264	1.14642
C	-1.31422	1.26213	-0.56142
C	2.15171	-1.02315	-1.77041
H	2.75216	-1.90759	-2.01045
H	1.54118	-0.79846	-2.64706
H	2.84268	-0.19061	-1.62593
C	-0.78331	-2.27090	-1.73700
H	-1.85323	-2.28321	-1.51975
H	-0.62653	-1.62267	-2.60137
H	-0.49626	-3.28544	-2.03365
C	3.03616	-0.52847	1.25524
H	3.77927	-1.33118	1.31317
H	3.43159	0.23383	0.58079
H	2.95312	-0.08390	2.24888
C	0.78331	2.27090	-1.73700
H	0.62653	1.62267	-2.60137
H	0.49626	3.28544	-2.03365
H	1.85323	2.28321	-1.51975
C	-2.15171	1.02315	-1.77041
H	-2.75216	1.90759	-2.01045
H	-1.54118	0.79846	-2.64706
H	-2.84268	0.19061	-1.62593
C	-3.03616	0.52847	1.25524
H	-3.77927	1.33118	1.31317
H	-3.43159	-0.23383	0.58079
H	-2.95312	0.08390	2.24888

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Energy: -1183462.6049505

Fe	0.00000	0.00000	0.16078
C	-1.29275	-1.20843	1.17037

C	-1.73166	-1.02805	-0.16661
C	0.00000	-1.80112	1.14135
H	-1.82936	-0.91904	2.06277
C	-0.71800	-1.51019	-1.03994
H	-2.66495	-0.58010	-0.47720
C	0.35852	-1.98672	-0.22952
C	0.00000	1.80112	1.14135
C	1.29275	1.20843	1.17037
C	-0.35852	1.98672	-0.22952
C	1.73166	1.02805	-0.16661
H	1.82936	0.91904	2.06277
C	0.71800	1.51019	-1.03994
H	2.66495	0.58010	-0.47720
C	1.60960	-2.62597	-0.72800
H	1.48045	-3.70789	-0.84342
H	1.90378	-2.22726	-1.70085
H	2.44222	-2.46878	-0.03983
C	-0.80878	-1.57929	-2.52551
H	-1.50708	-0.83393	-2.91164
H	0.15733	-1.41171	-3.00533
H	-1.16736	-2.56276	-2.84784
C	0.80316	-2.20207	2.33158
H	0.64118	-3.25727	2.57679
H	1.87384	-2.06617	2.16603
H	0.52383	-1.61399	3.20805
C	0.80878	1.57929	-2.52551
H	1.50708	0.83393	-2.91164
H	-0.15733	1.41171	-3.00533
H	1.16736	2.56276	-2.84784
C	-1.60960	2.62597	-0.72800
H	-1.48045	3.70789	-0.84342
H	-1.90378	2.22726	-1.70085
H	-2.44222	2.46878	-0.03983
C	-0.80316	2.20207	2.33158
H	-0.64118	3.25727	2.57679
H	-1.87384	2.06617	2.16603
H	-0.52383	1.61399	3.20805

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Energy: -1109513.2127087

Fe	-0.16599	0.43102	0.00000
C	-1.67542	-0.73868	0.70935
C	-1.67542	-0.73868	-0.70935
C	-0.42175	-1.23904	1.15769
H	-2.47469	-0.38916	1.34677
C	-0.42175	-1.23904	-1.15769
H	-2.47469	-0.38916	-1.34677
C	0.35674	-1.55115	0.00000
C	-0.46372	2.33167	0.71009
C	0.79082	1.83078	1.14928
C	-0.46372	2.33167	-0.71009
H	-1.28292	2.63518	1.34414
C	1.56644	1.52160	0.00000
H	1.09256	1.68751	2.17610
C	0.79082	1.83078	-1.14928
H	-1.28292	2.63518	-1.34414
H	2.56168	1.10250	0.00000



H	1.09256	1.68751	-2.17610
C	1.72175	-2.14973	0.00000
H	1.67073	-3.24409	0.00000
H	2.29141	-1.85006	-0.88162
H	2.29141	-1.85006	0.88162
C	-0.02276	-1.44557	-2.57899
H	-0.57658	-0.77743	-3.24129
H	1.04240	-1.26272	-2.73416
H	-0.22837	-2.47290	-2.89824
C	-0.02276	-1.44557	2.57899
H	-0.22837	-2.47290	2.89824
H	1.04240	-1.26272	2.73416
H	-0.57658	-0.77743	3.24129

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Energy: -1183462.2407378

Fe	0.00000	0.00000	0.49894
C	0.70906	1.63220	1.49676
C	-0.70906	1.63220	1.49676
C	1.15727	1.66641	0.14771
H	1.34650	1.58690	2.36802
C	-1.15727	1.66641	0.14771
H	-1.34650	1.58690	2.36802
C	0.00000	1.68509	-0.69032
C	0.70906	-1.63220	1.49676
C	1.15727	-1.66641	0.14771
C	-0.70906	-1.63220	1.49676
H	1.34650	-1.58690	2.36802
C	0.00000	-1.68509	-0.69032
C	-1.15727	-1.66641	0.14771
H	-1.34650	-1.58690	2.36802
C	0.00000	1.80031	-2.17594
H	0.00000	2.85086	-2.48701
H	-0.88107	1.33094	-2.61749
H	0.88107	1.33094	-2.61749
C	-2.57626	1.75983	-0.29667
H	-3.25059	1.32498	0.44353
H	-2.74501	1.24489	-1.24437
H	-2.87111	2.80530	-0.43727
C	2.57626	1.75983	-0.29667
H	2.87111	2.80530	-0.43727
H	2.74501	1.24489	-1.24437
H	3.25059	1.32498	0.44353
C	2.57626	-1.75983	-0.29667
H	2.74501	-1.24489	-1.24437
H	2.87111	-2.80530	-0.43727
H	3.25059	-1.32498	0.44353
C	0.00000	-1.80031	-2.17594
H	0.00000	-2.85086	-2.48701
H	0.88107	-1.33094	-2.61749
H	-0.88107	-1.33094	-2.61749
C	-2.57626	-1.75983	-0.29667
H	-2.87111	-2.80530	-0.43727
H	-2.74501	-1.24489	-1.24437
H	-3.25059	-1.32498	0.44353

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Energy: -1183462.6049505

Fe	0.00000	0.00000	0.16078
C	0.00000	-1.80113	1.14135
C	-0.35851	-1.98672	-0.22952
C	1.29275	-1.20843	1.17038
C	0.71801	-1.51018	-1.03994
C	1.73166	-1.02805	-0.16660
H	1.82935	-0.91904	2.06278
H	2.66495	-0.58010	-0.47719
C	-0.71801	1.51018	-1.03994
C	-1.73166	1.02805	-0.16660
C	0.35851	1.98672	-0.22952
C	-1.29275	1.20843	1.17038
H	-2.66495	0.58010	-0.47719
C	0.00000	1.80113	1.14135
H	-1.82935	0.91904	2.06278
C	-0.80317	-2.20208	2.33157
H	-0.64119	-3.25728	2.57677
H	-0.52383	-1.61400	3.20805
H	-1.87385	-2.06616	2.16603
C	-1.60960	-2.62596	-0.72801
H	-1.48045	-3.70789	-0.84341
H	-2.44222	-2.46877	-0.03984
H	-1.90376	-2.22727	-1.70086
C	0.80879	-1.57928	-2.52550
H	1.16738	-2.56274	-2.84784
H	-0.15732	-1.41170	-3.00533
H	1.50708	-0.83391	-2.91163
C	-0.80879	1.57928	-2.52550
H	0.15732	1.41170	-3.00533
H	-1.50708	0.83391	-2.91163
H	-1.16738	2.56274	-2.84784
C	1.60960	2.62596	-0.72801
H	1.90376	2.22727	-1.70086
H	1.48045	3.70789	-0.84341
H	2.44222	2.46877	-0.03984
C	0.80317	2.20208	2.33157
H	1.87385	2.06616	2.16603
H	0.64119	3.25728	2.57677
H	0.52383	1.61400	3.20805

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Energy: -1183462.2622300

Fe	0.00000	0.00000	0.00000
C	-0.38018	1.65565	1.15706
C	0.37407	2.02141	0.00000
C	-1.59264	1.06292	0.70944
C	-0.38018	1.65565	-1.15706
C	-1.59264	1.06292	-0.70944
H	-2.36546	0.65829	1.34740
H	-2.36546	0.65829	-1.34740
C	1.59264	-1.06292	-0.70944
C	1.59264	-1.06292	0.70944
C	0.38018	-1.65565	-1.15706
H	2.36546	-0.65829	-1.34740
C	0.38018	-1.65565	1.15706

H	2.36546	-0.65829	1.34740
C	-0.37407	-2.02141	0.00000
C	0.00000	1.90000	2.57754
H	-0.25912	2.91971	2.88213
H	-0.52380	1.21462	3.24640
H	1.07238	1.77383	2.74151
C	1.69409	2.71381	0.00000
H	1.56892	3.80230	0.00000
H	2.28355	2.45345	0.88120
H	2.28355	2.45345	-0.88120
C	0.00000	1.90000	-2.57754
H	-0.25912	2.91971	-2.88213
H	1.07238	1.77383	-2.74151
H	-0.52380	1.21462	-3.24640
C	0.00000	-1.90000	-2.57754
H	-1.07238	-1.77383	-2.74151
H	0.52380	-1.21462	-3.24640
H	0.25912	-2.91971	-2.88213
C	-1.69409	-2.71381	0.00000
H	-2.28355	-2.45345	-0.88120
H	-1.56892	-3.80230	0.00000
H	-2.28355	-2.45345	0.88120
C	0.00000	-1.90000	2.57754
H	-1.07238	-1.77383	2.74151
H	0.25912	-2.91971	2.88213
H	0.52380	-1.21462	3.24640

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Energy: -1109512.6685639

Fe	0.16837	0.42951	0.00000
C	0.42044	-1.24401	1.15731
C	-0.35900	-1.55324	0.00000
C	1.67540	-0.74819	0.70913
C	0.42044	-1.24401	-1.15731
C	1.67540	-0.74819	-0.70913
H	2.47462	-0.39850	1.34665
H	2.47462	-0.39850	-1.34665
C	-1.34951	1.61215	-0.71027
C	-1.34951	1.61215	0.71027
C	-0.09417	2.10990	-1.14883
H	-2.15441	1.27225	-1.34474
C	-0.09417	2.10990	1.14883
H	-2.15441	1.27225	1.34474
C	0.68195	2.41690	0.00000
H	0.22435	2.21147	-2.17540
H	0.22435	2.21147	2.17540
H	1.69456	2.79101	0.00000
C	0.01867	-1.44263	2.57879
H	0.20955	-2.47215	2.89996
H	0.58224	-0.78121	3.23953
H	-1.04363	-1.24382	2.73416
C	-1.72816	-2.14179	0.00000
H	-1.68520	-3.23646	0.00000
H	-2.29565	-1.83786	0.88155
H	-2.29565	-1.83786	-0.88155
C	0.01867	-1.44263	-2.57879
H	0.20955	-2.47215	-2.89996

H	-1.04363	-1.24382	-2.73416
H	0.58224	-0.78121	-3.23953

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Energy: -1183462.2104228

Fe	0.00000	0.00000	0.49942
C	0.52014	1.97594	0.25086
C	-0.49354	1.61209	-0.68792
C	0.00000	1.74650	1.55412
C	-1.63681	1.16324	0.04264
C	-1.32174	1.24867	1.42665
H	0.53662	1.90135	2.47908
H	-1.97388	0.95648	2.23713
C	0.49354	-1.61209	-0.68792
C	1.63681	-1.16324	0.04264
C	-0.52014	-1.97594	0.25086
C	1.32174	-1.24867	1.42665
C	0.00000	-1.74650	1.55412
H	1.97388	-0.95648	2.23713
H	-0.53662	-1.90135	2.47908
C	1.84929	2.57192	-0.06225
H	1.76882	3.65712	-0.18701
H	2.56231	2.38620	0.74350
H	2.27447	2.16943	-0.98343
C	-0.40512	1.76061	-2.16802
H	-0.75261	2.75043	-2.48410
H	0.62133	1.64867	-2.52292
H	-1.01717	1.02016	-2.68619
C	-2.95325	0.76429	-0.53016
H	-3.58378	1.64299	-0.70356
H	-2.84543	0.24959	-1.48732
H	-3.49380	0.10039	0.14692
C	2.95325	-0.76429	-0.53016
H	3.58378	-1.64299	-0.70356
H	2.84543	-0.24959	-1.48732
H	3.49380	-0.10039	0.14692
C	0.40512	-1.76061	-2.16802
H	1.01717	-1.02016	-2.68619
H	0.75261	-2.75043	-2.48410
H	-0.62133	-1.64867	-2.52292
C	-1.84929	-2.57192	-0.06225
H	-2.27447	-2.16943	-0.98343
H	-1.76882	-3.65712	-0.18701
H	-2.56231	-2.38620	0.74350

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Energy: -1183463.0885658

Fe	0.00000	0.00000	0.14701
C	-0.96951	-1.50022	1.13006
C	-1.75500	-0.31481	1.15555
C	-0.73910	-1.87983	-0.22301
H	-0.58042	-2.01413	1.99868
C	-2.01218	0.03437	-0.19861
C	-1.39484	-0.92227	-1.05416
C	1.75500	0.31481	1.15555
C	2.01218	-0.03437	-0.19861

C	0.96951	1.50022	1.13006
C	1.39484	0.92227	-1.05416
H	2.56811	-0.90163	-0.52849
C	0.73910	1.87983	-0.22301
H	0.58042	2.01413	1.99868
C	-1.49259	-0.95491	-2.54046
H	-2.33210	-1.58106	-2.86110
H	-1.65579	0.04498	-2.94749
H	-0.58985	-1.36014	-3.00161
C	0.00000	-3.09210	-0.67732
H	-0.68368	-3.93388	-0.83182
H	0.52265	-2.91909	-1.62031
H	0.74041	-3.40126	0.06315
H	-2.56811	0.90163	-0.52849
C	-2.25900	0.39242	2.36692
H	-2.38781	1.46036	2.17909
H	-3.23050	-0.00769	2.67556
H	-1.57372	0.27812	3.20941
C	1.49259	0.95491	-2.54046
H	2.33210	1.58106	-2.86110
H	1.65579	-0.04498	-2.94749
H	0.58985	1.36014	-3.00161
C	0.00000	3.09210	-0.67732
H	0.68368	3.93388	-0.83182
H	-0.52265	2.91909	-1.62031
H	-0.74041	3.40126	0.06315
C	2.25900	-0.39242	2.36692
H	1.57372	-0.27812	3.20941
H	2.38781	-1.46036	2.17909
H	3.23050	0.00769	2.67556

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Energy: -1183462.7923813

Fe	0.00000	0.00000	0.06627
C	0.98742	1.47529	-0.93864
C	0.72473	1.89729	0.39369
C	1.78191	0.29421	-0.90729
H	0.62110	1.95902	-1.83415
C	1.36318	0.96118	1.25212
C	2.02094	-0.02478	0.46342
C	-1.78191	-0.29421	-0.90729
C	-0.98742	-1.47529	-0.93864
C	-2.02094	0.02478	0.46342
C	-0.72473	-1.89729	0.39369
H	-0.62110	-1.95902	-1.83415
C	-1.36318	-0.96118	1.25212
H	-1.34164	-0.98448	2.33308
C	2.87372	-1.13017	0.98338
H	3.92143	-0.81626	1.04191
H	2.56461	-1.42943	1.98683
H	2.83485	-2.01400	0.34396
C	2.31275	-0.43357	-2.09498
H	3.31533	-0.07873	-2.35716
H	2.38416	-1.50812	-1.91447
H	1.67199	-0.28287	-2.96611
H	1.34164	0.98448	2.33308
C	0.00000	3.13113	0.80742

H	-0.49545	3.00209	1.77160
H	0.69524	3.97152	0.90423
H	-0.75710	3.41655	0.07413
C	-2.31275	0.43357	-2.09498
H	-3.31533	0.07873	-2.35716
H	-2.38416	1.50812	-1.91447
H	-1.67199	0.28287	-2.96611
C	-2.87372	1.13017	0.98338
H	-2.83485	2.01400	0.34396
H	-3.92143	0.81626	1.04191
H	-2.56461	1.42943	1.98683
C	0.00000	-3.13113	0.80742
H	0.75710	-3.41655	0.07413
H	0.49545	-3.00209	1.77160
H	-0.69524	-3.97152	0.90423

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Energy: -1109513.4384427

Fe	-0.05785	-0.35338	0.00000
C	1.05904	0.91220	1.14091
C	1.80220	0.50163	0.00000
C	-0.13281	1.56468	0.71397
H	1.33687	0.72939	2.16984
C	1.05904	0.91220	-1.14091
C	-0.13281	1.56468	-0.71397
C	-0.52655	-1.98483	1.14900
C	-1.71017	-1.33367	0.71032
C	0.20567	-2.38633	0.00000
H	-0.22450	-2.12718	2.17557
C	-1.71017	-1.33367	-0.71032
H	-2.46476	-0.89433	1.34553
C	-0.52655	-1.98483	-1.14900
H	1.16253	-2.88662	0.00000
H	-2.46476	-0.89433	-1.34553
H	-0.22450	-2.12718	-2.17557
C	-1.15943	2.17800	-1.60367
H	-0.94867	3.23975	-1.77062
H	-1.17617	1.68817	-2.57920
H	-2.16163	2.10778	-1.17612
C	-1.15943	2.17800	1.60367
H	-0.94867	3.23975	1.77062
H	-2.16163	2.10778	1.17612
H	-1.17617	1.68817	2.57920
H	1.33687	0.72939	-2.16984
C	3.12783	-0.17943	0.00000
H	3.25129	-0.80878	-0.88362
H	3.94159	0.55323	0.00000
H	3.25129	-0.80878	0.88362

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Energy: -1183462.5341110

Fe	0.00000	0.00000	0.19184
C	-1.14046	1.65394	0.57027
C	0.00000	1.65247	1.41889
C	-0.71371	1.66574	-0.78763
H	-2.16954	1.63287	0.90204

C	1.14046	1.65394	0.57027
C	0.71371	1.66574	-0.78763
C	-1.14046	-1.65394	0.57027
C	-0.71371	-1.66574	-0.78763
C	0.00000	-1.65247	1.41889
H	-2.16954	-1.63287	0.90204
C	0.71371	-1.66574	-0.78763
C	1.14046	-1.65394	0.57027
H	2.16954	-1.63287	0.90204
C	1.60192	1.75757	-1.98014
H	1.76343	2.80309	-2.26382
H	2.58036	1.31692	-1.77957
H	1.17745	1.24808	-2.84740
C	-1.60192	1.75757	-1.98014
H	-1.76343	2.80309	-2.26382
H	-1.17745	1.24808	-2.84740
H	-2.58036	1.31692	-1.77957
H	2.16954	1.63287	0.90204
C	0.00000	1.73259	2.90622
H	0.88337	1.25504	3.33446
H	0.00000	2.77738	3.23396
H	-0.88337	1.25504	3.33446
C	-1.60192	-1.75757	-1.98014
H	-2.58036	-1.31692	-1.77957
H	-1.17745	-1.24808	-2.84740
H	-1.76343	-2.80309	-2.26382
C	1.60192	-1.75757	-1.98014
H	1.76343	-2.80309	-2.26382
H	1.17745	-1.24808	-2.84740
H	2.58036	-1.31692	-1.77957
C	0.00000	-1.73259	2.90622
H	0.88337	-1.25504	3.33446
H	-0.88337	-1.25504	3.33446
H	0.00000	-2.77738	3.23396

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Energy: -1183462.7923813

Fe	0.00000	0.00000	0.06627
C	1.36318	0.96118	1.25212
C	2.02094	-0.02478	0.46342
C	0.72473	1.89729	0.39368
C	1.78191	0.29421	-0.90729
C	0.98742	1.47529	-0.93864
H	0.62110	1.95902	-1.83415
C	-0.98742	-1.47529	-0.93864
C	-0.72473	-1.89729	0.39368
C	-1.78191	-0.29421	-0.90729
H	-0.62110	-1.95902	-1.83415
C	-1.36318	-0.96118	1.25212
C	-2.02094	0.02478	0.46342
H	-1.34164	-0.98448	2.33307
C	2.87372	-1.13016	0.98339
H	3.92143	-0.81625	1.04192
H	2.56461	-1.42943	1.98683
H	2.83486	-2.01399	0.34397
C	2.31275	-0.43358	-2.09498
H	3.31533	-0.07874	-2.35715

H	2.38416	-1.50813	-1.91446
H	1.67200	-0.28288	-2.96611
H	1.34164	0.98448	2.33307
C	-2.31275	0.43358	-2.09498
H	-2.38416	1.50813	-1.91446
H	-1.67200	0.28288	-2.96611
H	-3.31533	0.07874	-2.35715
C	-2.87372	1.13016	0.98339
H	-2.83486	2.01399	0.34397
H	-3.92143	0.81625	1.04192
H	-2.56461	1.42943	1.98683
C	0.00000	3.13114	0.80741
H	-0.75710	3.41655	0.07412
H	-0.49545	3.00210	1.77159
H	0.69524	3.97153	0.90422
C	0.00000	-3.13114	0.80741
H	0.75710	-3.41655	0.07412
H	0.49545	-3.00210	1.77159
H	-0.69524	-3.97153	0.90422

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Energy: -1183462.4965294

Fe	0.00000	0.00000	0.00000
C	0.00000	1.69766	1.14060
C	1.32583	1.40265	0.71340
C	-0.82701	1.88536	0.00000
C	1.32583	1.40265	-0.71340
C	0.00000	1.69766	-1.14060
H	-0.32848	1.74851	-2.16980
C	0.82701	-1.88536	0.00000
C	0.00000	-1.69766	1.14060
C	0.00000	-1.69766	-1.14060
C	-1.32583	-1.40265	0.71340
H	0.32848	-1.74851	2.16980
C	-1.32583	-1.40265	-0.71340
H	0.32848	-1.74851	-2.16980
C	2.50245	1.19659	1.60459
H	3.01705	2.14404	1.79755
H	2.19807	0.78506	2.56912
H	3.23245	0.51494	1.16407
C	2.50245	1.19659	-1.60459
H	3.01705	2.14404	-1.79755
H	3.23245	0.51494	-1.16407
H	2.19807	0.78506	-2.56912
H	-0.32848	1.74851	2.16980
C	-2.26391	2.27936	0.00000
H	-2.78168	1.90325	0.88463
H	-2.36553	3.36964	0.00000
H	-2.78168	1.90325	-0.88463
C	-2.50245	-1.19659	-1.60459
H	-3.01705	-2.14404	-1.79755
H	-3.23245	-0.51494	-1.16407
H	-2.19807	-0.78506	-2.56912
C	-2.50245	-1.19659	1.60459
H	-3.23245	-0.51494	1.16407
H	-3.01705	-2.14404	1.79755
H	-2.19807	-0.78506	2.56912



C	2.26391	-2.27936	0.00000
H	2.78168	-1.90325	0.88463
H	2.36553	-3.36964	0.00000
H	2.78168	-1.90325	-0.88463

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Energy: -1109512.9048589

Fe	0.05443	-0.35276	0.00000
C	-1.05554	0.92312	1.14057
C	0.14036	1.56735	0.71372
C	-1.80127	0.51793	0.00000
C	0.14036	1.56735	-0.71372
C	-1.05554	0.92312	-1.14057
H	-1.33303	0.73933	-2.16951
C	1.90587	-1.23666	0.00000
C	1.17182	-1.63324	1.14895
C	1.17182	-1.63324	-1.14895
H	2.84522	-0.70411	0.00000
C	-0.01569	-2.27732	0.70968
H	1.45438	-1.45463	2.17554
C	-0.01569	-2.27732	-0.70968
H	1.45438	-1.45463	-2.17554
H	-0.79439	-2.67330	1.34411
H	-0.79439	-2.67330	-1.34411
C	1.17509	2.16629	1.60349
H	0.97916	3.23069	1.77127
H	1.18550	1.67532	2.57851
H	2.17613	2.08229	1.17570
C	1.17509	2.16629	-1.60349
H	0.97916	3.23069	-1.77127
H	2.17613	2.08229	-1.17570
H	1.18550	1.67532	-2.57851
H	-1.33303	0.73933	2.16951
C	-3.12827	-0.16010	0.00000
H	-3.25292	-0.78939	0.88347
H	-3.94057	0.57410	0.00000
H	-3.25292	-0.78939	-0.88347

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Energy: -1183463.0885658

Fe	0.00000	0.00000	0.14701
C	0.96951	-1.50022	1.13006
C	0.73910	-1.87983	-0.22300
C	1.75500	-0.31481	1.15555
C	1.39483	-0.92227	-1.05416
C	2.01218	0.03437	-0.19861
H	2.56811	0.90163	-0.52850
C	-1.39483	0.92227	-1.05416
C	-2.01218	-0.03437	-0.19861
C	-0.73910	1.87983	-0.22300
C	-1.75500	0.31481	1.15555
H	-2.56811	-0.90163	-0.52850
C	-0.96951	1.50022	1.13006
H	-0.58042	2.01412	1.99868
C	0.00000	-3.09209	-0.67732
H	0.68368	-3.93388	-0.83184

H	-0.74040	-3.40127	0.06316
H	-0.52267	-2.91908	-1.62030
C	1.49259	-0.95491	-2.54046
H	2.33209	-1.58108	-2.86111
H	0.58983	-1.36013	-3.00161
H	1.65580	0.04497	-2.94749
H	0.58042	-2.01412	1.99868
C	2.25900	0.39242	2.36691
H	1.57372	0.27813	3.20940
H	3.23050	-0.00769	2.67556
H	2.38782	1.46036	2.17908
C	-1.49259	0.95491	-2.54046
H	-2.33209	1.58108	-2.86111
H	-0.58983	1.36013	-3.00161
H	-1.65580	-0.04497	-2.94749
C	0.00000	3.09209	-0.67732
H	0.52267	2.91908	-1.62030
H	-0.68368	3.93388	-0.83184
H	0.74040	3.40127	0.06316
C	-2.25900	-0.39242	2.36691
H	-2.38782	-1.46036	2.17908
H	-1.57372	-0.27813	3.20940
H	-3.23050	0.00769	2.67556

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Energy: -1232761.6628143

Fe	0.00000	0.00000	-0.22541
C	-0.43773	1.69329	-1.27029
C	-1.59442	0.87308	-1.17189
C	0.00000	2.03898	0.03700
H	0.04822	1.98466	-2.19173
C	-1.88257	0.70778	0.21621
C	-0.89582	1.42455	0.96267
C	1.59442	-0.87308	-1.17189
C	1.88257	-0.70778	0.21621
C	0.43773	-1.69329	-1.27029
C	0.89582	-1.42455	0.96267
C	0.00000	-2.03898	0.03700
H	-0.04822	-1.98466	-2.19173
C	-0.86019	1.58080	2.44424
H	-1.45980	2.44080	2.76296
H	-1.25551	0.70130	2.95570
H	0.15719	1.74311	2.80583
C	-3.05870	-0.00830	0.78547
H	-3.38634	-0.82475	0.13956
H	-2.83971	-0.43107	1.76801
H	-3.90862	0.67248	0.90721
C	1.13303	2.94980	0.36416
H	0.77983	3.97816	0.49706
H	1.64302	2.65955	1.28465
H	1.87373	2.95998	-0.43826
C	-2.38716	0.33934	-2.31614
H	-2.80751	-0.64466	-2.09806
H	-3.22247	1.00476	-2.56021
H	-1.76835	0.24611	-3.21088
C	-1.13303	-2.94980	0.36416
H	-1.64302	-2.65955	1.28465

H	-1.87373	-2.95998	-0.43826
H	-0.77983	-3.97816	0.49706
C	0.86019	-1.58080	2.44424
H	-0.15719	-1.74311	2.80583
H	1.45980	-2.44080	2.76296
H	1.25551	-0.70130	2.95570
C	3.05870	0.00830	0.78547
H	2.83971	0.43107	1.76801
H	3.90862	-0.67248	0.90721
H	3.38634	0.82475	0.13956
C	2.38716	-0.33934	-2.31614
H	2.80751	0.64466	-2.09806
H	3.22247	-1.00476	-2.56021
H	1.76835	-0.24611	-3.21088

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Energy: -1232761.5465808

Fe	0.00000	0.00000	-0.11119
C	-1.59484	-1.17441	-0.60383
C	-0.44643	-1.59527	-1.32781
C	-1.33210	-1.28174	0.78871
H	-2.51502	-0.81179	-1.04194
C	0.54823	-1.96263	-0.37235
C	0.00000	-1.77369	0.93412
C	-0.54823	1.96263	-0.37235
C	0.00000	1.77369	0.93412
C	0.44643	1.59527	-1.32781
C	1.33210	1.28174	0.78871
C	1.59484	1.17441	-0.60383
H	2.51502	0.81179	-1.04194
C	0.66587	-2.11785	2.22198
H	0.47268	-3.16142	2.49454
H	1.74846	-1.99148	2.16718
H	0.30092	-1.49669	3.04257
C	1.89785	-2.51433	-0.68373
H	2.26884	-2.14736	-1.64255
H	2.63049	-2.24345	0.07903
H	1.87404	-3.60848	-0.73950
C	-2.30733	-1.01362	1.88290
H	-2.82394	-1.93326	2.17846
H	-1.82507	-0.61006	2.77518
H	-3.06904	-0.29924	1.56326
C	-0.34161	-1.71442	-2.80929
H	0.66665	-1.49907	-3.16886
H	-0.59361	-2.72938	-3.13530
H	-1.02776	-1.02949	-3.31077
C	2.30733	1.01362	1.88290
H	2.82394	1.93326	2.17846
H	1.82507	0.61006	2.77518
H	3.06904	0.29924	1.56326
C	-0.66587	2.11785	2.22198
H	-0.30092	1.49669	3.04257
H	-0.47268	3.16142	2.49454
H	-1.74846	1.99148	2.16718
C	-1.89785	2.51433	-0.68373
H	-2.63049	2.24345	0.07903
H	-1.87404	3.60848	-0.73950

H	-2.26884	2.14736	-1.64255
C	0.34161	1.71442	-2.80929
H	-0.66665	1.49907	-3.16886
H	0.59361	2.72938	-3.13530
H	1.02776	1.02949	-3.31077

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Energy: -1134163.0191755

Fe	0.05599	0.45623	0.00000
C	1.66299	-0.79161	0.00000
C	0.87070	-1.01896	1.15849
C	0.87070	-1.01896	-1.15849
H	2.69385	-0.46497	0.00000
C	-0.43295	-1.39733	0.71532
C	-0.43295	-1.39733	-0.71532
C	0.75661	2.38443	0.00000
C	-0.04482	2.15117	-1.14921
C	-0.04482	2.15117	1.14921
H	1.79872	2.66605	0.00000
C	-1.34232	1.77463	-0.71026
H	0.28188	2.22418	-2.17577
C	-1.34232	1.77463	0.71026
H	0.28188	2.22418	2.17577
H	-2.17553	1.51126	-1.34467
H	-2.17553	1.51126	1.34467
C	-1.57741	-1.77779	-1.59133
H	-1.57914	-2.85520	-1.79036
H	-2.53639	-1.52958	-1.13281
H	-1.52972	-1.26834	-2.55554
C	-1.57741	-1.77779	1.59133
H	-1.52972	-1.26834	2.55554
H	-2.53639	-1.52958	1.13281
H	-1.57914	-2.85520	1.79036
C	1.34201	-0.92708	-2.56968
H	1.67035	-1.90509	-2.93777
H	0.55654	-0.57308	-3.24030
H	2.18777	-0.24204	-2.65504
C	1.34201	-0.92708	2.56968
H	0.55654	-0.57308	3.24030
H	1.67035	-1.90509	2.93777
H	2.18777	-0.24204	2.65504

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Energy: -1232761.3003461

Fe	0.00000	0.00000	0.27585
C	0.00000	1.64314	1.48734
C	1.15775	1.65637	0.66354
C	-1.15775	1.65637	0.66354
H	0.00000	1.61094	2.56835
C	0.71479	1.67128	-0.69305
C	-0.71479	1.67128	-0.69305
C	0.00000	-1.64314	1.48734
C	-1.15775	-1.65637	0.66354
C	1.15775	-1.65637	0.66354
H	0.00000	-1.61094	2.56835
C	-0.71479	-1.67128	-0.69305

C	0.71479	-1.67128	-0.69305
C	-1.58913	1.77085	-1.89555
H	-1.77366	2.81824	-2.15932
H	-1.13814	1.29158	-2.76642
H	-2.56069	1.30231	-1.72789
C	1.58913	1.77085	-1.89555
H	2.56069	1.30231	-1.72789
H	1.13814	1.29158	-2.76642
H	1.77366	2.81824	-2.15932
C	-2.56617	1.74203	1.14156
H	-2.88995	2.78644	1.20728
H	-3.26036	1.22922	0.47320
H	-2.67350	1.30211	2.13490
C	2.56617	1.74203	1.14156
H	3.26036	1.22922	0.47320
H	2.88995	2.78644	1.20728
H	2.67350	1.30211	2.13490
C	2.56617	-1.74203	1.14156
H	2.88995	-2.78644	1.20728
H	3.26036	-1.22922	0.47320
H	2.67350	-1.30211	2.13490
C	1.58913	-1.77085	-1.89555
H	2.56069	-1.30231	-1.72789
H	1.77366	-2.81824	-2.15932
H	1.13814	-1.29158	-2.76642
C	-1.58913	-1.77085	-1.89555
H	-1.13814	-1.29158	-2.76642
H	-1.77366	-2.81824	-2.15932
H	-2.56069	-1.30231	-1.72789
C	-2.56617	-1.74203	1.14156
H	-3.26036	-1.22922	0.47320
H	-2.88995	-2.78644	1.20728
H	-2.67350	-1.30211	2.13490

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Energy: -1232761.6189954

Fe	0.00000	0.00000	0.19747
C	0.00000	2.04401	-0.04308
C	-0.87916	1.43409	-0.99120
C	-0.44658	1.69108	1.26584
C	-1.87335	0.70695	-0.27016
C	-1.59814	0.87203	1.11486
H	-2.15913	0.42418	1.92410
C	0.87916	-1.43409	-0.99120
C	1.87335	-0.70695	-0.27016
C	0.00000	-2.04401	-0.04308
C	1.59814	-0.87203	1.11486
C	0.44658	-1.69108	1.26584
H	2.15913	-0.42418	1.92410
C	1.13009	2.96209	-0.35993
H	0.78425	3.99993	-0.42255
H	1.90612	2.92459	0.40706
H	1.59814	2.71781	-1.31508
C	-0.82075	1.60176	-2.47084
H	-1.39123	2.48156	-2.78891
H	0.20413	1.73546	-2.82281
H	-1.23815	0.73797	-2.99146

C	-3.03831	-0.01885	-0.85000
H	-3.87239	0.66702	-1.03394
H	-2.79287	-0.49353	-1.80239
H	-3.39607	-0.79663	-0.17276
C	0.13816	2.14496	2.55988
H	1.22341	2.25026	2.50320
H	-0.26971	3.11785	2.85521
H	-0.08691	1.43796	3.36102
C	3.03831	0.01885	-0.85000
H	2.79287	0.49353	-1.80239
H	3.39607	0.79663	-0.17276
H	3.87239	-0.66702	-1.03394
C	0.82075	-1.60176	-2.47084
H	1.23815	-0.73797	-2.99146
H	1.39123	-2.48156	-2.78891
H	-0.20413	-1.73546	-2.82281
C	-1.13009	-2.96209	-0.35993
H	-1.59814	-2.71781	-1.31508
H	-0.78425	-3.99993	-0.42255
H	-1.90612	-2.92459	0.40706
C	-0.13816	-2.14496	2.55988
H	-1.22341	-2.25026	2.50320
H	0.26971	-3.11785	2.85521
H	0.08691	-1.43796	3.36102

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Energy: -1232761.3861391

Fe	0.00000	0.00000	0.00000
C	0.12737	1.92439	0.71476
C	0.12737	1.92439	-0.71476
C	-1.08256	1.31118	1.15771
C	-1.08256	1.31118	-1.15771
C	-1.81629	0.93532	0.00000
H	-2.77137	0.42757	0.00000
C	1.08256	-1.31118	-1.15771
C	1.81629	-0.93532	0.00000
C	-0.12737	-1.92439	-0.71476
C	1.08256	-1.31118	1.15771
H	2.77137	-0.42757	0.00000
C	-0.12737	-1.92439	0.71476
C	1.17575	2.52484	1.58790
H	0.98748	3.59180	1.75191
H	1.20395	2.04598	2.56829
H	2.17014	2.43434	1.14607
C	1.17575	2.52484	-1.58790
H	0.98748	3.59180	-1.75191
H	2.17014	2.43434	-1.14607
H	1.20395	2.04598	-2.56829
C	-1.54103	1.15782	-2.56746
H	-2.05356	2.06279	-2.91139
H	-0.71003	0.97709	-3.25218
H	-2.24319	0.32735	-2.66395
C	-1.54103	1.15782	2.56746
H	-0.71003	0.97709	3.25218
H	-2.05356	2.06279	2.91139
H	-2.24319	0.32735	2.66395
C	1.54103	-1.15782	-2.56746

H	0.71003	-0.97709	-3.25218
H	2.24319	-0.32735	-2.66395
H	2.05356	-2.06279	-2.91139
C	-1.17575	-2.52484	-1.58790
H	-1.20395	-2.04598	-2.56829
H	-0.98748	-3.59180	-1.75191
H	-2.17014	-2.43434	-1.14607
C	-1.17575	-2.52484	1.58790
H	-2.17014	-2.43434	1.14607
H	-0.98748	-3.59180	1.75191
H	-1.20395	-2.04598	2.56829
C	1.54103	-1.15782	2.56746
H	0.71003	-0.97709	3.25218
H	2.05356	-2.06279	2.91139
H	2.24319	-0.32735	2.66395

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Energy: -1134162.5091735

Fe	0.05803	0.45422	0.00000
C	-0.43432	-1.40034	0.71514
C	-0.43432	-1.40034	-0.71514
C	0.86997	-1.02568	1.15812
C	0.86997	-1.02568	-1.15812
C	1.66262	-0.80055	0.00000
H	2.69334	-0.47325	0.00000
C	-0.75885	1.94630	-1.14890
C	-1.56111	1.71439	0.00000
C	0.53873	2.31983	-0.71022
H	-1.07397	1.83460	-2.17564
C	-0.75885	1.94630	1.14890
H	-2.59325	1.39719	0.00000
C	0.53873	2.31983	0.71022
H	1.38398	2.54046	-1.34466
H	-1.07397	1.83460	2.17564
H	1.38398	2.54046	1.34466
C	-1.58192	-1.77066	1.59108
H	-1.59549	-2.84843	1.78745
H	-1.52769	-1.26417	2.55649
H	-2.53850	-1.51046	1.13415
C	-1.58192	-1.77066	-1.59108
H	-1.59549	-2.84843	-1.78745
H	-2.53850	-1.51046	-1.13415
H	-1.52769	-1.26417	-2.55649
C	1.33934	-0.92716	-2.56934
H	1.65385	-1.90573	-2.94769
H	0.55730	-0.55581	-3.23463
H	2.19379	-0.25244	-2.64993
C	1.33934	-0.92716	2.56934
H	0.55730	-0.55581	3.23463
H	1.65385	-1.90573	2.94769
H	2.19379	-0.25244	2.64993

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Energy: -1232761.6628143

Fe	0.00000	0.00000	0.22542
C	-0.89580	1.42456	-0.96267

C	-1.88257	0.70778	-0.21622
C	0.00000	2.03899	-0.03698
C	-1.59442	0.87308	1.17188
C	-0.43774	1.69329	1.27030
H	0.04821	1.98464	2.19175
C	0.00000	-2.03899	-0.03698
C	0.89580	-1.42456	-0.96267
C	0.43774	-1.69329	1.27030
C	1.88257	-0.70778	-0.21622
C	1.59442	-0.87308	1.17188
H	-0.04821	-1.98464	2.19175
C	-0.86016	1.58081	-2.44423
H	-1.45976	2.44081	-2.76296
H	0.15722	1.74312	-2.80582
H	-1.25549	0.70131	-2.95570
C	-3.05870	-0.00829	-0.78549
H	-3.90861	0.67250	-0.90724
H	-2.83970	-0.43107	-1.76803
H	-3.38634	-0.82474	-0.13958
C	-2.38718	0.33932	2.31612
H	-3.22250	1.00472	2.56017
H	-2.80751	-0.64469	2.09805
H	-1.76838	0.24612	3.21087
C	1.13304	2.94980	-0.36413
H	1.64303	2.65955	-1.28461
H	0.77984	3.97817	-0.49703
H	1.87373	2.95998	0.43830
C	2.38718	-0.33932	2.31612
H	3.22250	-1.00472	2.56017
H	2.80751	0.64469	2.09805
H	1.76838	-0.24612	3.21087
C	3.05870	0.00829	-0.78549
H	3.38634	0.82474	-0.13958
H	3.90861	-0.67250	-0.90724
H	2.83970	0.43107	-1.76803
C	0.86016	-1.58081	-2.44423
H	1.25549	-0.70131	-2.95570
H	1.45976	-2.44081	-2.76296
H	-0.15722	-1.74312	-2.80582
C	-1.13304	-2.94980	-0.36413
H	-1.64303	-2.65955	-1.28461
H	-0.77984	-3.97817	-0.49703
H	-1.87373	-2.95998	0.43830

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Energy: -1134163.0740261

Fe	0.00000	0.00000	0.46275
C	-1.30043	1.21843	1.45721
C	0.00000	1.78656	1.45139
C	-1.70743	1.06330	0.10671
H	-1.86473	0.92767	2.33041
C	0.40283	1.98337	0.10017
H	0.60191	2.00632	2.32131
C	-0.66383	1.53675	-0.73847
H	-2.64140	0.63760	-0.23177
C	0.00000	-1.78656	1.45139
C	-0.40283	-1.98337	0.10017



C	1.30043	-1.21843	1.45721
H	-0.60191	-2.00632	2.32131
C	0.66383	-1.53675	-0.73847
C	1.70743	-1.06330	0.10671
H	1.86473	-0.92767	2.33041
H	2.64140	-0.63760	-0.23177
C	-0.71763	1.62413	-2.22478
H	0.26014	1.45646	-2.68043
H	-1.41026	0.88871	-2.63866
H	-1.06094	2.61416	-2.54314
C	1.68222	2.60307	-0.34824
H	2.46928	2.45969	0.39450
H	2.03025	2.17705	-1.29144
H	1.56342	3.68120	-0.50046
C	0.71763	-1.62413	-2.22478
H	1.06094	-2.61416	-2.54314
H	-0.26014	-1.45646	-2.68043
H	1.41026	-0.88871	-2.63866
C	-1.68222	-2.60307	-0.34824
H	-2.03025	-2.17705	-1.29144
H	-1.56342	-3.68120	-0.50046
H	-2.46928	-2.45969	0.39450

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Energy: -1134163.2476392

Fe	0.00000	0.00000	0.17842
C	1.88557	-0.68789	0.54383
C	0.95059	-1.34975	1.38172
C	1.51668	-0.94933	-0.80167
H	2.71054	-0.07276	0.87110
C	0.00000	-2.01969	0.56027
H	0.93833	-1.32904	2.46190
C	0.35315	-1.77039	-0.80139
H	2.01253	-0.56879	-1.68338
C	0.00000	2.01969	0.56027
C	-0.35315	1.77039	-0.80139
C	-0.95059	1.34975	1.38172
C	-1.51668	0.94933	-0.80167
C	-1.88557	0.68789	0.54383
H	-0.93833	1.32904	2.46190
H	-2.01253	0.56879	-1.68338
H	-2.71054	0.07276	0.87110
C	-0.33251	-2.31259	-2.00882
H	-1.41037	-2.40043	-1.85854
H	-0.16651	-1.67020	-2.87587
H	0.04527	-3.30964	-2.25927
C	-1.12482	-2.87036	1.04335
H	-1.44724	-2.56491	2.04061
H	-1.99012	-2.81406	0.37988
H	-0.82424	-3.92202	1.10042
C	0.33251	2.31259	-2.00882
H	1.41037	2.40043	-1.85854
H	0.16651	1.67020	-2.87587
H	-0.04527	3.30964	-2.25927
C	1.12482	2.87036	1.04335
H	1.99012	2.81406	0.37988
H	0.82424	3.92202	1.10042

H	1.44724	2.56491	2.04061
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Energy: -1084863.3386278

Fe	0.19645	0.36591	0.00000
C	2.00188	-0.58397	0.00000
C	1.24980	-0.95352	1.14530
C	1.24980	-0.95352	-1.14530
H	2.95847	-0.08370	0.00000
C	0.03089	-1.55030	0.71440
H	1.53370	-0.78541	2.17411
C	0.03089	-1.55030	-0.71440
H	1.53370	-0.78541	-2.17411
C	0.55747	2.38399	0.00000
C	-0.19235	2.01709	-1.14905
C	-0.19235	2.01709	1.14905
H	1.53662	2.83832	0.00000
C	-1.40555	1.42271	-0.71032
H	0.11705	2.14402	-2.17540
C	-1.40555	1.42271	0.71032
H	0.11705	2.14402	2.17540
H	-2.18015	1.01931	-1.34533
H	-2.18015	1.01931	1.34533
C	-1.02396	-2.11802	-1.60129
H	-0.86666	-3.19026	-1.75930
H	-2.02183	-1.99400	-1.17593
H	-1.01443	-1.63564	-2.58054
C	-1.02396	-2.11802	1.60129
H	-1.01443	-1.63564	2.58054
H	-2.02183	-1.99400	1.17593
H	-0.86666	-3.19026	1.75930

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Energy: -1134162.9018062

Fe	0.00000	0.00000	0.56728
C	0.00000	1.62520	1.80032
C	1.14513	1.64469	0.96271
C	-1.14513	1.64469	0.96271
H	0.00000	1.57138	2.87853
C	0.71425	1.67857	-0.39368
H	2.17399	1.61400	1.29123
C	-0.71425	1.67857	-0.39368
H	-2.17399	1.61400	1.29123
C	0.00000	-1.62520	1.80032
C	-1.14513	-1.64469	0.96271
C	1.14513	-1.64469	0.96271
H	0.00000	-1.57138	2.87853
C	-0.71425	-1.67857	-0.39368
H	-2.17399	-1.61400	1.29123
C	0.71425	-1.67857	-0.39368
H	2.17399	-1.61400	1.29123
C	-1.60009	1.78407	-1.58698
H	-1.17838	1.27456	-2.45560
H	-2.58216	1.35043	-1.38916
H	-1.75251	2.83201	-1.86631
C	1.60009	1.78407	-1.58698

H	2.58216	1.35043	-1.38916
H	1.17838	1.27456	-2.45560
H	1.75251	2.83201	-1.86631
C	1.60009	-1.78407	-1.58698
H	2.58216	-1.35043	-1.38916
H	1.75251	-2.83201	-1.86631
H	1.17838	-1.27456	-2.45560
C	-1.60009	-1.78407	-1.58698
H	-1.17838	-1.27456	-2.45560
H	-1.75251	-2.83201	-1.86631
H	-2.58216	-1.35043	-1.38916

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Energy: -1134163.2476392

Fe	0.00000	0.00000	0.17841
C	0.35314	1.77039	-0.80139
C	0.00000	2.01969	0.56027
C	1.51667	0.94933	-0.80168
C	0.95060	1.34975	1.38171
C	1.88557	0.68789	0.54382
H	2.01251	0.56882	-1.68341
H	0.93835	1.32904	2.46190
H	2.71056	0.07278	0.87109
C	-1.88557	-0.68789	0.54382
C	-1.51667	-0.94933	-0.80168
C	-0.95060	-1.34975	1.38171
H	-2.71056	-0.07278	0.87109
C	-0.35314	-1.77039	-0.80139
H	-2.01251	-0.56882	-1.68341
C	0.00000	-2.01969	0.56027
H	-0.93835	-1.32904	2.46190
C	-0.33253	2.31259	-2.00881
H	0.04523	3.30965	-2.25926
H	-0.16652	1.67022	-2.87586
H	-1.41040	2.40041	-1.85852
C	-1.12482	2.87036	1.04336
H	-0.82425	3.92202	1.10041
H	-1.99013	2.81404	0.37989
H	-1.44723	2.56492	2.04062
C	0.33253	-2.31259	-2.00881
H	1.41040	-2.40041	-1.85852
H	-0.04523	-3.30965	-2.25926
H	0.16652	-1.67022	-2.87586
C	1.12482	-2.87036	1.04336
H	0.82425	-3.92202	1.10041
H	1.99013	-2.81404	0.37989
H	1.44723	-2.56492	2.04062

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Energy: -1134162.7734177

Fe	0.00000	0.00000	0.00000
C	1.32499	1.40049	0.71398
C	1.32499	1.40049	-0.71398
C	0.00000	1.69303	1.14518
C	0.00000	1.69303	-1.14518
C	-0.81831	1.87274	0.00000

H	-0.32653	1.73876	2.17428
H	-0.32653	1.73876	-2.17428
H	-1.87810	2.07988	0.00000
C	0.00000	-1.69303	-1.14518
C	0.81831	-1.87274	0.00000
C	-1.32499	-1.40049	-0.71398
H	0.32653	-1.73876	-2.17428
C	0.00000	-1.69303	1.14518
H	1.87810	-2.07988	0.00000
C	-1.32499	-1.40049	0.71398
H	0.32653	-1.73876	2.17428
C	2.50228	1.17973	1.60101
H	3.05411	2.11230	1.75987
H	2.19143	0.80945	2.57980
H	3.20026	0.45570	1.17579
C	2.50228	1.17973	-1.60101
H	3.05411	2.11230	-1.75987
H	3.20026	0.45570	-1.17579
H	2.19143	0.80945	-2.57980
C	-2.50228	-1.17973	1.60101
H	-2.19143	-0.80945	2.57980
H	-3.20026	-0.45570	1.17579
H	-3.05411	-2.11230	1.75987
C	-2.50228	-1.17973	-1.60101
H	-3.05411	-2.11230	-1.75987
H	-3.20026	-0.45570	-1.17579
H	-2.19143	-0.80945	-2.57980

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Energy: -1084862.7713467

Fe	0.19935	0.36451	0.00000
C	0.02870	-1.55360	0.71418
C	0.02870	-1.55360	-0.71418
C	1.24963	-0.96191	1.14493
C	1.24963	-0.96191	-1.14493
C	2.00292	-0.59548	0.00000
H	1.53266	-0.79194	2.17375
H	1.53266	-0.79194	-2.17375
H	2.95998	-0.09596	0.00000
C	-0.86009	1.69196	-1.14894
C	-1.61058	1.32667	0.00000
C	0.35388	2.28364	-0.70980
H	-1.14971	1.52515	-2.17554
C	-0.86009	1.69196	1.14894
H	-2.57208	0.83528	0.00000
C	0.35388	2.28364	0.70980
H	1.15028	2.64258	-1.34406
H	-1.14971	1.52515	2.17554
H	1.15028	2.64258	1.34406
C	-1.03241	-2.10923	1.60105
H	-0.89032	-3.18398	1.75597
H	-1.01459	-1.62940	2.58141
H	-2.02915	-1.96942	1.17781
C	-1.03241	-2.10923	-1.60105
H	-0.89032	-3.18398	-1.75597
H	-2.02915	-1.96942	-1.17781
H	-1.01459	-1.62940	-2.58141

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Energy: -1134163.0735681

Fe	0.00000	0.00000	0.46624
C	0.68259	1.52852	-0.73494
C	-0.38945	1.98386	0.09209
C	1.71597	1.05320	0.12160
C	0.00000	1.79049	1.44772
C	1.29742	1.21579	1.46769
H	2.65084	0.62139	-0.20648
H	-0.60853	2.01686	2.31132
H	1.85219	0.92575	2.34721
C	-1.71597	-1.05320	0.12160
C	-0.68259	-1.52852	-0.73494
C	-1.29742	-1.21579	1.46769
H	-2.65084	-0.62139	-0.20648
C	0.38945	-1.98386	0.09209
C	0.00000	-1.79049	1.44772
H	-1.85219	-0.92575	2.34721
H	0.60853	-2.01686	2.31132
C	0.75074	1.60990	-2.22101
H	1.10303	2.59664	-2.53980
H	1.44289	0.86881	-2.62556
H	-0.22367	1.44641	-2.68523
C	-1.66157	2.60791	-0.37079
H	-1.53543	3.68434	-0.52901
H	-2.00429	2.17769	-1.31406
H	-2.45548	2.47376	0.36637
C	-0.75074	-1.60990	-2.22101
H	-1.44289	-0.86881	-2.62556
H	0.22367	-1.44641	-2.68523
H	-1.10303	-2.59664	-2.53980
C	1.66157	-2.60791	-0.37079
H	1.53543	-3.68434	-0.52901
H	2.00429	-2.17769	-1.31406
H	2.45548	-2.47376	0.36637

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Energy: -792267.6421416

Fe	0.00000	0.00000	0.00000
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Energy: -1458355.5934345

Fe	0.00000	0.00000	0.94376
C	-0.77868	-1.46119	2.15885
C	-1.76638	-1.00210	1.24713
C	0.31491	-1.96503	1.41287
H	-0.83418	-1.40471	3.23522
C	-1.29047	-1.21930	-0.06949
H	-2.70308	-0.53367	1.50734
C	0.00000	-1.80925	0.03385
H	1.23400	-2.36923	1.80762
H	-1.79122	-0.95476	-0.98791
C	0.77868	1.46119	2.15885
C	1.76638	1.00210	1.24713

C	-0.31491	1.96503	1.41287
H	0.83418	1.40471	3.23522
C	1.29047	1.21930	-0.06949
H	2.70308	0.53367	1.50734
C	0.00000	1.80925	0.03385
H	-1.23400	2.36923	1.80762
H	1.79122	0.95476	-0.98791
C	0.84809	-2.25920	-1.10047
F	0.59723	-3.53881	-1.42288
F	0.64091	-1.53445	-2.20569
F	2.15551	-2.18746	-0.80781
C	-0.84809	2.25920	-1.10047
F	-0.64091	1.53445	-2.20569
F	-2.15551	2.18746	-0.80781
F	-0.59723	3.53881	-1.42288

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Energy: -1458356.0826723

Fe	0.00000	0.00000	0.37156
C	-0.34979	1.77512	1.34389
C	0.00000	2.01744	-0.01084
C	-1.50725	0.95815	1.36463
H	0.19343	2.12243	2.20925
C	-0.93833	1.35352	-0.83843
H	0.85836	2.57467	-0.35361
C	-1.86658	0.69144	0.01368
H	-2.01422	0.57863	2.23805
H	-0.93816	1.32331	-1.91680
C	1.50725	-0.95815	1.36463
C	0.34979	-1.77512	1.34389
C	1.86658	-0.69144	0.01368
H	2.01422	-0.57863	2.23805
C	0.00000	-2.01744	-0.01084
H	-0.19343	-2.12243	2.20925
C	0.93833	-1.35352	-0.83843
H	-0.85836	-2.57467	-0.35361
H	0.93816	-1.32331	-1.91680
C	-3.05070	-0.08760	-0.43070
F	-4.13182	0.69574	-0.57325
F	-2.84787	-0.68172	-1.61519
F	-3.38277	-1.04415	0.44838
C	3.05070	0.08760	-0.43070
F	2.84787	0.68172	-1.61519
F	3.38277	1.04415	0.44838
F	4.13182	-0.69574	-0.57325

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Energy: -1246960.0212389

Fe	0.20840	-0.85762	0.00000
C	2.09548	-0.47122	0.71025
C	2.09548	-0.47122	-0.71025
C	1.18220	0.51643	1.15500
H	2.66722	-1.13167	1.34404
C	1.18220	0.51643	-1.15500
H	2.66722	-1.13167	-1.34404
C	0.61193	1.12254	0.00000

H	0.93666	0.75470	2.17810
H	0.93666	0.75470	-2.17810
C	-0.35277	-2.69374	0.71004
C	-1.26408	-1.69662	1.14881
C	-0.35277	-2.69374	-0.71004
H	0.25417	-3.32195	1.34417
C	-1.82643	-1.08048	0.00000
H	-1.47079	-1.43147	2.17443
C	-1.26408	-1.69662	-1.14881
H	0.25417	-3.32195	-1.34417
H	-2.52967	-0.26162	0.00000
H	-1.47079	-1.43147	-2.17443
C	-0.35366	2.24955	0.00000
F	0.27300	3.43907	0.00000
F	-1.14673	2.23673	-1.08130
F	-1.14673	2.23673	1.08130

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Energy: -1458352.8414478

Fe	0.00000	0.00000	1.17341
C	-0.71019	1.61019	2.21984
C	0.71019	1.61019	2.21984
C	-1.15372	1.67265	0.87609
H	-1.34374	1.53660	3.09051
C	1.15372	1.67265	0.87609
H	1.34374	1.53660	3.09051
C	0.00000	1.71116	0.04662
H	-2.17612	1.67692	0.53173
H	2.17612	1.67692	0.53173
C	-0.71019	-1.61019	2.21984
C	-1.15372	-1.67265	0.87609
C	0.71019	-1.61019	2.21984
H	-1.34374	-1.53660	3.09051
C	0.00000	-1.71116	0.04662
H	-2.17612	-1.67692	0.53173
C	1.15372	-1.67265	0.87609
H	1.34374	-1.53660	3.09051
H	2.17612	-1.67692	0.53173
C	0.00000	1.96025	-1.41967
F	0.00000	3.28322	-1.67076
F	1.08205	1.45757	-2.02082
F	-1.08205	1.45757	-2.02082
C	0.00000	-1.96025	-1.41967
F	0.00000	-3.28322	-1.67076
F	-1.08205	-1.45757	-2.02082
F	1.08205	-1.45757	-2.02082

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Energy: -1458356.0819444

Fe	0.00000	0.00000	0.36961
C	0.00000	-1.99089	0.01353
C	-0.37627	-1.74522	1.36385
C	-0.94230	-1.35108	-0.84016
C	-1.54426	-0.94344	1.34115
H	0.15475	-2.08806	2.23816
C	-1.89156	-0.70086	-0.01418

H	-0.91295	-1.34156	-1.91850
H	-2.05950	-0.55384	2.20561
H	-2.71191	-0.08984	-0.35837
C	1.54426	0.94344	1.34115
C	1.89156	0.70086	-0.01418
C	0.37627	1.74522	1.36385
H	2.05950	0.55384	2.20561
C	0.94230	1.35108	-0.84016
H	2.71191	0.08984	-0.35837
C	0.00000	1.99089	0.01353
H	-0.15475	2.08806	2.23816
H	0.91295	1.34156	-1.91850
C	1.14143	-2.83236	-0.42867
F	2.15409	-2.80922	0.44999
F	0.78183	-4.11856	-0.56709
F	1.62776	-2.43966	-1.61455
C	-1.14143	2.83236	-0.42867
F	-0.78183	4.11856	-0.56709
F	-1.62776	2.43966	-1.61455
F	-2.15409	2.80922	0.44999

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Energy: -1458355.4816751

Fe	0.00000	0.00000	0.00000
C	0.10289	2.02444	0.00000
C	0.75829	1.51150	1.15412
C	0.75829	1.51150	-1.15412
C	1.80830	0.67202	0.71016
H	0.47633	1.70568	2.17730
C	1.80830	0.67202	-0.71016
H	0.47633	1.70568	-2.17730
H	2.46546	0.09457	1.34216
H	2.46546	0.09457	-1.34216
C	-0.75829	-1.51150	1.15412
C	-1.80830	-0.67202	0.71016
C	-0.10289	-2.02444	0.00000
H	-0.47633	-1.70568	2.17730
C	-1.80830	-0.67202	-0.71016
H	-2.46546	-0.09457	1.34216
C	-0.75829	-1.51150	-1.15412
H	-2.46546	-0.09457	-1.34216
H	-0.47633	-1.70568	-2.17730
C	-1.02768	2.98780	0.00000
F	-1.80830	2.84908	1.08124
F	-0.59353	4.25840	0.00000
F	-1.80830	2.84908	-1.08124
C	1.02768	-2.98780	0.00000
F	1.80830	-2.84908	1.08124
F	0.59353	-4.25840	0.00000
F	1.80830	-2.84908	-1.08124

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Energy: -1246959.3687545

Fe	0.20983	-0.85720	0.00000
C	0.61200	1.12630	0.00000
C	1.18344	0.52153	1.15462



C	1.18344	0.52153	-1.15462
C	2.09861	-0.46383	0.71003
H	0.93513	0.75722	2.17774
C	2.09861	-0.46383	-0.71003
H	0.93513	0.75722	-2.17774
H	2.66897	-1.12554	1.34383
H	2.66897	-1.12554	-1.34383
C	-0.75941	-2.25391	1.14826
C	-1.67023	-1.25787	0.71004
C	-0.19520	-2.86929	0.00000
H	-0.51297	-2.48036	2.17458
C	-1.67023	-1.25787	-0.71004
H	-2.23433	-0.58949	1.34259
C	-0.75941	-2.25391	-1.14826
H	0.55312	-3.64730	0.00000
H	-2.23433	-0.58949	-1.34259
H	-0.51297	-2.48036	-2.17458
C	-0.35726	2.25034	0.00000
F	0.26608	3.44164	0.00000
F	-1.15017	2.23560	-1.08131
F	-1.15017	2.23560	1.08131

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Energy: -1458355.5934345

Fe	0.00000	0.00000	0.94376
C	0.00000	1.80925	0.03385
C	-0.31491	1.96503	1.41288
C	1.29046	1.21930	-0.06950
C	0.77869	1.46120	2.15884
H	-1.23400	2.36923	1.80762
C	1.76638	1.00211	1.24712
H	1.79122	0.95476	-0.98791
H	0.83418	1.40471	3.23521
H	2.70308	0.53368	1.50734
C	-1.76638	-1.00211	1.24712
C	-1.29046	-1.21930	-0.06950
C	-0.77869	-1.46120	2.15884
H	-2.70308	-0.53368	1.50734
C	0.00000	-1.80925	0.03385
H	-1.79122	-0.95476	-0.98791
C	0.31491	-1.96503	1.41288
H	-0.83418	-1.40471	3.23521
H	1.23400	-2.36923	1.80762
C	-0.84810	2.25919	-1.10047
F	-2.15552	2.18746	-0.80780
F	-0.59724	3.53880	-1.42289
F	-0.64092	1.53443	-2.20569
C	0.84810	-2.25919	-1.10047
F	0.59724	-3.53880	-1.42289
F	0.64092	-1.53443	-2.20569
F	2.15552	-2.18746	-0.80780

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Energy: -1881137.8374073

Fe	0.00000	0.00000	0.27274
C	0.00000	2.04391	0.53324

C	0.83873	1.41959	1.48649
C	0.47472	1.71597	-0.75773
H	-0.87908	2.63049	0.75083
C	1.83448	0.68571	0.78678
H	0.72998	1.45215	2.55927
C	1.60835	0.87175	-0.61505
H	0.03692	2.01334	-1.69721
C	-0.83873	-1.41959	1.48649
C	-1.83448	-0.68571	0.78678
C	0.00000	-2.04391	0.53324
H	-0.72998	-1.45215	2.55927
C	-1.60835	-0.87175	-0.61505
C	-0.47472	-1.71597	-0.75773
H	0.87908	-2.63049	0.75083
H	-0.03692	-2.01334	-1.69721
C	2.43472	0.37960	-1.76310
F	2.52473	-0.95322	-1.82919
F	1.91567	0.79483	-2.92379
F	3.68408	0.85266	-1.68893
C	2.95011	-0.03719	1.46702
F	2.59325	-0.40380	2.70613
F	3.33384	-1.13915	0.81857
F	4.02832	0.74681	1.58561
C	-2.43472	-0.37960	-1.76310
F	-3.68408	-0.85266	-1.68893
F	-2.52473	0.95322	-1.82919
F	-1.91567	-0.79483	-2.92379
C	-2.95011	0.03719	1.46702
F	-3.33384	1.13915	0.81857
F	-4.02832	-0.74681	1.58561
F	-2.59325	0.40380	2.70613

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Energy: -1881137.8374073

Fe	0.00000	0.00000	0.27274
C	0.00000	-2.04390	0.53325
C	-0.83873	-1.41958	1.48650
C	-0.47472	-1.71598	-0.75772
H	0.87908	-2.63048	0.75086
C	-1.83448	-0.68570	0.78678
H	-0.72998	-1.45212	2.55927
C	-1.60834	-0.87175	-0.61505
H	-0.03692	-2.01335	-1.69720
C	1.83448	0.68570	0.78678
C	1.60834	0.87175	-0.61505
C	0.83873	1.41958	1.48650
C	0.47472	1.71598	-0.75772
C	0.00000	2.04390	0.53325
H	0.72998	1.45212	2.55927
H	0.03692	2.01335	-1.69720
H	-0.87908	2.63048	0.75086
C	-2.43471	-0.37960	-1.76310
F	-2.52473	0.95321	-1.82918
F	-1.91565	-0.79483	-2.92379
F	-3.68407	-0.85268	-1.68894
C	-2.95012	0.03719	1.46702
F	-2.59328	0.40379	2.70614

F	-3.33384	1.13916	0.81858
F	-4.02833	-0.74681	1.58558
C	2.43471	0.37960	-1.76310
F	2.52473	-0.95321	-1.82918
F	1.91565	0.79483	-2.92379
F	3.68407	0.85268	-1.68894
C	2.95012	-0.03719	1.46702
F	3.33384	-1.13916	0.81858
F	4.02833	0.74681	1.58558
F	2.59328	-0.40379	2.70614

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Energy: -1458351.9641959

Fe	-1.17192	0.01030	0.24408
C	-0.77705	0.00545	2.26502
C	-0.23155	-1.14434	1.64763
C	-0.21243	1.14915	1.65307
H	-1.52300	0.01014	3.04458
C	0.67148	-0.71848	0.63493
H	-0.47097	-2.17198	1.87123
C	0.68468	0.71507	0.63845
H	-0.43233	2.17910	1.88437
C	-3.20853	-0.03002	0.03840
C	-2.67914	1.14697	-0.55402
C	-2.62522	-1.14933	-0.61218
H	-3.90875	-0.06737	0.85911
C	-1.76919	0.75458	-1.57051
H	-2.90575	2.16146	-0.26329
C	-1.73508	-0.66351	-1.60625
H	-2.80221	-2.18683	-0.37294
H	-1.17441	1.41622	-2.18079
H	-1.11188	-1.26549	-2.24979
C	1.54171	1.64371	-0.16007
F	2.83744	1.48521	0.14424
F	1.43354	1.48577	-1.48306
F	1.22580	2.91924	0.10669
C	1.50853	-1.66145	-0.16093
F	0.93328	-2.87168	-0.22725
F	1.72280	-1.25319	-1.41369
F	2.71270	-1.83532	0.40419

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Energy: -1881131.5209660

Fe	0.00000	0.00000	1.27247
C	0.00000	1.57401	2.58753
C	1.14534	1.63162	1.76063
C	-1.14534	1.63162	1.76063
H	0.00000	1.46053	3.66067
C	0.71533	1.72349	0.40986
H	2.17514	1.58908	2.07857
C	-0.71533	1.72349	0.40986
H	-2.17514	1.58908	2.07857
C	0.00000	-1.57401	2.58753
C	-1.14534	-1.63162	1.76063
C	1.14534	-1.63162	1.76063
H	0.00000	-1.46053	3.66067

C	-0.71533	-1.72349	0.40986
H	-2.17514	-1.58908	2.07857
C	0.71533	-1.72349	0.40986
H	2.17514	-1.58908	2.07857
C	-1.66761	1.99778	-0.71296
F	-1.34491	1.41071	-1.85758
F	-2.90413	1.60177	-0.38388
F	-1.72823	3.31871	-0.94606
C	1.66761	1.99778	-0.71296
F	2.90413	1.60177	-0.38388
F	1.34491	1.41071	-1.85758
F	1.72823	3.31871	-0.94606
C	1.66761	-1.99778	-0.71296
F	2.90413	-1.60177	-0.38388
F	1.72823	-3.31871	-0.94606
F	1.34491	-1.41071	-1.85758
C	-1.66761	-1.99778	-0.71296
F	-1.34491	-1.41071	-1.85758
F	-1.72823	-3.31871	-0.94606
F	-2.90413	-1.60177	-0.38388

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Energy: -1881137.8374073

Fe	0.00000	0.00000	0.27273
C	-1.60835	0.87175	-0.61505
C	-1.83448	0.68570	0.78678
C	-0.47473	1.71597	-0.75774
C	-0.83873	1.41959	1.48649
C	0.00000	2.04390	0.53324
H	-0.03693	2.01334	-1.69722
H	-0.72997	1.45213	2.55926
H	0.87908	2.63048	0.75084
C	0.00000	-2.04390	0.53324
C	0.47473	-1.71597	-0.75774
C	0.83873	-1.41959	1.48649
H	-0.87908	-2.63048	0.75084
C	1.60835	-0.87175	-0.61505
H	0.03693	-2.01334	-1.69722
C	1.83448	-0.68570	0.78678
H	0.72997	-1.45213	2.55926
C	-2.43473	0.37960	-1.76310
F	-3.68409	0.85266	-1.68892
F	-1.91568	0.79483	-2.92379
F	-2.52474	-0.95322	-1.82919
C	-2.95012	-0.03718	1.46702
F	-4.02832	0.74682	1.58559
F	-3.33385	-1.13915	0.81858
F	-2.59327	-0.40378	2.70614
C	2.43473	-0.37960	-1.76310
F	2.52474	0.95322	-1.82919
F	3.68409	-0.85266	-1.68892
F	1.91568	-0.79483	-2.92379
C	2.95012	0.03718	1.46702
F	4.02832	-0.74682	1.58559
F	3.33385	1.13915	0.81858
F	2.59327	0.40378	2.70614

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Energy: -1881137.4601799

Fe	0.00000	0.00000	0.00000
C	-0.66017	1.78012	0.71643
C	-0.66017	1.78012	-0.71643
C	-1.53334	0.74464	1.14565
C	-1.53334	0.74464	-1.14565
C	-2.06051	0.10541	0.00000
H	-1.71675	0.47572	2.17413
H	-1.71675	0.47572	-2.17413
H	-2.70809	-0.75726	0.00000
C	1.53334	-0.74464	-1.14565
C	2.06051	-0.10541	0.00000
C	0.66017	-1.78012	-0.71643
H	1.71675	-0.47572	-2.17413
C	1.53334	-0.74464	1.14565
H	2.70809	0.75726	0.00000
C	0.66017	-1.78012	0.71643
H	1.71675	-0.47572	2.17413
C	0.02550	2.72140	1.65483
F	-0.55067	3.92887	1.62973
F	-0.05240	2.26941	2.91296
F	1.32081	2.89974	1.37927
C	0.02550	2.72140	-1.65483
F	-0.55067	3.92887	-1.62973
F	1.32081	2.89974	-1.37927
F	-0.05240	2.26941	-2.91296
C	-0.02550	-2.72140	1.65483
F	0.05240	-2.26941	2.91296
F	-1.32081	-2.89974	1.37927
F	0.55067	-3.92887	1.62973
C	-0.02550	-2.72140	-1.65483
F	0.55067	-3.92887	-1.62973
F	-1.32081	-2.89974	-1.37927
F	0.05240	-2.26941	-2.91296

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Energy: -1458351.9584981

Fe	-0.24404	1.17608	0.00000
C	-0.64464	-0.67129	-0.71706
C	-0.64464	-0.67129	0.71706
C	-1.65517	0.23278	-1.14654
C	-1.65517	0.23278	1.14654
C	-2.26737	0.79053	0.00000
H	-1.88120	0.46361	-2.17536
H	-1.88120	0.46361	2.17536
H	-3.04357	1.53999	0.00000
C	1.59174	1.74586	0.70948
C	1.59174	1.74586	-0.70948
C	0.59079	2.65204	1.14884
H	2.21598	1.13318	1.34151
C	0.59079	2.65204	-1.14884
H	2.21598	1.13318	-1.34151
C	-0.02802	3.21210	0.00000
H	0.32681	2.85561	2.17544
H	0.32681	2.85561	-2.17544

H	-0.84534	3.91726	0.00000
C	0.14615	-1.52043	-1.65651
F	-0.30012	-2.78508	-1.65714
F	0.03371	-1.06486	-2.91291
F	1.45024	-1.57080	-1.37200
C	0.14615	-1.52043	1.65651
F	-0.30012	-2.78508	1.65714
F	1.45024	-1.57080	1.37200
F	0.03371	-1.06486	2.91291

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Energy: -1881132.3492785

Fe	0.00000	0.00000	1.24925
C	0.00000	1.93443	0.58343
C	-1.22652	1.29027	0.22307
C	0.10159	1.90769	1.99921
C	-1.85728	0.86970	1.42432
C	-1.03875	1.24790	2.51226
H	0.93282	2.29600	2.56660
H	-2.78889	0.32819	1.47407
H	-1.22797	1.02826	3.55183
C	-0.10159	-1.90769	1.99921
C	0.00000	-1.93443	0.58343
C	1.03875	-1.24790	2.51226
H	-0.93282	-2.29600	2.56660
C	1.22652	-1.29027	0.22307
C	1.85728	-0.86970	1.42432
H	1.22797	-1.02826	3.55183
H	2.78889	-0.32819	1.47407
C	0.97482	2.67447	-0.27729
F	0.52815	3.91313	-0.53011
F	2.15095	2.80428	0.35467
F	1.20846	2.09153	-1.44720
C	-1.91018	1.23579	-1.10943
F	-2.39425	2.44959	-1.41986
F	-1.12787	0.85752	-2.11148
F	-2.95244	0.39757	-1.06448
C	-0.97482	-2.67447	-0.27729
F	-2.15095	-2.80428	0.35467
F	-1.20846	-2.09153	-1.44720
F	-0.52815	-3.91313	-0.53011
C	1.91018	-1.23579	-1.10943
F	2.39425	-2.44959	-1.41986
F	1.12787	-0.85752	-2.11148
F	2.95244	-0.39757	-1.06448

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Energy: -2303910.0976541

Fe	0.00000	0.00000	0.60988
C	-0.98103	-1.28094	1.87390
C	-1.84477	-0.90736	0.82598
C	0.15969	-1.90276	1.30580
H	-1.12758	-1.08649	2.92478
C	-1.25669	-1.30153	-0.40194
H	-2.77988	-0.37904	0.92213
C	0.00000	-1.92244	-0.11592

C	0.98103	1.28094	1.87390
C	1.84477	0.90736	0.82598
C	-0.15969	1.90276	1.30580
H	1.12758	1.08649	2.92478
C	1.25669	1.30153	-0.40194
H	2.77988	0.37904	0.92213
C	0.00000	1.92244	-0.11592
C	0.92579	-2.62133	-1.07859
F	1.05527	-3.90583	-0.72337
F	0.46113	-2.59171	-2.32216
F	2.14848	-2.09010	-1.09391
C	-1.99164	-1.19473	-1.71268
F	-3.15206	-0.55657	-1.53086
F	-1.31880	-0.54456	-2.65539
F	-2.28519	-2.41263	-2.18016
C	1.25167	-2.49574	2.14410
F	1.03006	-3.79402	2.36166
F	2.46123	-2.37939	1.59897
F	1.29287	-1.89530	3.34308
C	1.99164	1.19473	-1.71268
F	1.31880	0.54456	-2.65539
F	2.28519	2.41263	-2.18016
F	3.15206	0.55657	-1.53086
C	-0.92579	2.62133	-1.07859
F	-1.05527	3.90583	-0.72337
F	-0.46113	2.59171	-2.32216
F	-2.14848	2.09010	-1.09391
C	-1.25167	2.49574	2.14410
F	-1.03006	3.79402	2.36166
F	-2.46123	2.37939	1.59897
F	-1.29287	1.89530	3.34308

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Energy: -2303911.7937558

Fe	0.00000	0.00000	0.33271
C	1.46546	0.97241	1.39831
C	1.91712	0.73304	0.08583
C	0.28207	1.75397	1.32836
H	1.90607	0.59309	2.30618
C	1.02482	1.36925	-0.81229
H	2.76997	0.13916	-0.20219
C	0.00000	2.01286	-0.05059
C	-0.28207	-1.75397	1.32836
C	-1.46546	-0.97241	1.39831
C	0.00000	-2.01286	-0.05059
C	-1.91712	-0.73304	0.08583
H	-1.90607	-0.59309	2.30618
C	-1.02482	-1.36925	-0.81229
H	-2.76997	-0.13916	-0.20219
C	-1.07397	2.90768	-0.61784
F	-0.53919	3.78217	-1.47296
F	-2.01881	2.23111	-1.27568
F	-1.68017	3.60824	0.33885
C	1.28785	1.47236	-2.28603
F	2.05388	0.46201	-2.69992
F	0.17614	1.47774	-3.01580
F	1.95118	2.60488	-2.55202

C	-0.44105	2.23429	2.55481
F	-0.23475	3.53643	2.75659
F	-1.76146	2.03472	2.50504
F	0.01318	1.58803	3.63450
C	-1.28785	-1.47236	-2.28603
F	-2.05388	-0.46201	-2.69992
F	-0.17614	-1.47774	-3.01580
F	-1.95118	-2.60488	-2.55202
C	1.07397	-2.90768	-0.61784
F	0.53919	-3.78217	-1.47296
F	2.01881	-2.23111	-1.27568
F	1.68017	-3.60824	0.33885
C	0.44105	-2.23429	2.55481
F	0.23475	-3.53643	2.75659
F	1.76146	-2.03472	2.50504
F	-0.01318	-1.58803	3.63450

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Energy: -1669742.0558807

Fe	-1.18780	-0.05486	0.00000
C	-0.52395	-1.86905	0.70447
C	-0.52395	-1.86905	-0.70447
C	0.30641	-0.80827	1.15209
H	-1.07555	-2.53724	1.34586
C	0.30641	-0.80827	-1.15209
H	-1.07555	-2.53724	-1.34586
C	0.83099	-0.13655	0.00000
C	-3.09363	0.19649	0.71000
C	-2.26385	1.26132	1.14809
C	-3.09363	0.19649	-0.71000
H	-3.60885	-0.50773	1.34544
C	-1.74960	1.91803	0.00000
H	-2.02985	1.50331	2.17293
C	-2.26385	1.26132	-1.14809
H	-3.60885	-0.50773	-1.34544
H	-1.05908	2.74762	0.00000
H	-2.02985	1.50331	-2.17293
C	1.86107	0.94972	0.00000
F	3.09584	0.43167	0.00000
F	1.76282	1.73456	-1.07564
F	1.76282	1.73456	1.07564
C	0.62509	-0.57606	-2.59927
F	-0.01080	-1.47902	-3.35942
F	0.27108	0.62824	-3.05567
F	1.93535	-0.71508	-2.82933
C	0.62509	-0.57606	2.59927
F	1.93535	-0.71508	2.82933
F	0.27108	0.62824	3.05567
F	-0.01080	-1.47902	3.35942

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Energy: -2303902.4581091

Fe	0.00000	0.00000	0.90435
C	0.70320	1.59222	1.99853
C	-0.70320	1.59222	1.99853
C	1.15056	1.69677	0.65726



H	1.34728	1.50492	2.85889
C	-1.15056	1.69677	0.65726
H	-1.34728	1.50492	2.85889
C	0.00000	1.75429	-0.19288
C	0.70320	-1.59222	1.99853
C	1.15056	-1.69677	0.65726
C	-0.70320	-1.59222	1.99853
H	1.34728	-1.50492	2.85889
C	0.00000	-1.75429	-0.19288
C	-1.15056	-1.69677	0.65726
H	-1.34728	-1.50492	2.85889
C	0.00000	2.06815	-1.66602
F	0.00000	3.39801	-1.83443
F	-1.07205	1.58663	-2.28547
F	1.07205	1.58663	-2.28547
C	-2.59905	1.97177	0.34974
F	-3.35306	1.65128	1.41062
F	-3.09311	1.33323	-0.69651
F	-2.75674	3.28506	0.13373
C	2.59905	1.97177	0.34974
F	2.75674	3.28506	0.13373
F	3.09311	1.33323	-0.69651
F	3.35306	1.65128	1.41062
C	2.59905	-1.97177	0.34974
F	3.09311	-1.33323	-0.69651
F	2.75674	-3.28506	0.13373
F	3.35306	-1.65128	1.41062
C	0.00000	-2.06815	-1.66602
F	0.00000	-3.39801	-1.83443
F	1.07205	-1.58663	-2.28547
F	-1.07205	-1.58663	-2.28547
C	-2.59905	-1.97177	0.34974
F	-2.75674	-3.28506	0.13373
F	-3.09311	-1.33323	-0.69651
F	-3.35306	-1.65128	1.41062

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Energy: -2303909.9446360

Fe	0.00000	0.00000	0.55309
C	0.07114	1.88472	1.32478
C	0.00000	1.94339	-0.10263
C	-1.08806	1.21885	1.79757
C	-1.22262	1.30930	-0.48818
C	-1.87635	0.86281	0.68604
H	-1.29902	0.99250	2.83081
H	-2.80383	0.31415	0.70884
C	1.22262	-1.30930	-0.48818
C	1.87635	-0.86281	0.68604
C	0.00000	-1.94339	-0.10263
C	1.08806	-1.21885	1.79757
H	2.80383	-0.31415	0.70884
C	-0.07114	-1.88472	1.32478
H	1.29902	-0.99250	2.83081
C	1.10832	2.47406	2.24009
F	1.22593	3.78762	2.04607
F	0.74830	2.28345	3.51563
F	2.32354	1.93716	2.09730

C	0.93899	2.70846	-0.99080
F	0.61167	4.00525	-0.99322
F	2.20209	2.61704	-0.56715
F	0.90055	2.28225	-2.24819
C	-1.88320	1.26720	-1.84141
F	-2.10579	2.51448	-2.27360
F	-1.19162	0.63330	-2.77671
F	-3.07171	0.66004	-1.74261
C	1.88320	-1.26720	-1.84141
F	1.19162	-0.63330	-2.77671
F	3.07171	-0.66004	-1.74261
F	2.10579	-2.51448	-2.27360
C	-0.93899	-2.70846	-0.99080
F	-0.90055	-2.28225	-2.24819
F	-0.61167	-4.00525	-0.99322
F	-2.20209	-2.61704	-0.56715
C	-1.10832	-2.47406	2.24009
F	-2.32354	-1.93716	2.09730
F	-1.22593	-3.78762	2.04607
F	-0.74830	-2.28345	3.51563

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Energy: -2303912.4343927

Fe	0.00000	0.00000	0.00000
C	-0.87389	1.45775	1.14972
C	-0.24055	2.02278	0.00000
C	-1.86294	0.54433	0.70500
C	-0.87389	1.45775	-1.14972
C	-1.86294	0.54433	-0.70500
H	-2.47841	-0.06492	1.34791
H	-2.47841	-0.06492	-1.34791
C	1.86294	-0.54433	-0.70500
C	1.86294	-0.54433	0.70500
C	0.87389	-1.45775	-1.14972
H	2.47841	0.06492	-1.34791
C	0.87389	-1.45775	1.14972
H	2.47841	0.06492	1.34791
C	0.24055	-2.02278	0.00000
C	-0.66872	1.83224	2.59267
F	-0.76669	3.15601	2.74762
F	-1.61119	1.26935	3.35152
F	0.51457	1.45827	3.08184
C	0.81154	3.09382	0.00000
F	0.25520	4.30632	0.00000
F	1.59865	3.01161	1.07514
F	1.59865	3.01161	-1.07514
C	-0.66872	1.83224	-2.59267
F	-0.76669	3.15601	-2.74762
F	0.51457	1.45827	-3.08184
F	-1.61119	1.26935	-3.35152
C	0.66872	-1.83224	-2.59267
F	-0.51457	-1.45827	-3.08184
F	1.61119	-1.26935	-3.35152
F	0.76669	-3.15601	-2.74762
C	-0.81154	-3.09382	0.00000
F	-1.59865	-3.01161	-1.07514
F	-0.25520	-4.30632	0.00000

F	-1.59865	-3.01161	1.07514
C	0.66872	-1.83224	2.59267
F	-0.51457	-1.45827	3.08184
F	0.76669	-3.15601	2.74762
F	1.61119	-1.26935	3.35152

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Energy: -1669742.0558807

Fe	1.18780	-0.05485	0.00000
C	-0.30642	-0.80827	1.15209
C	-0.83099	-0.13655	0.00000
C	0.52396	-1.86905	0.70447
C	-0.30642	-0.80827	-1.15209
C	0.52396	-1.86905	-0.70447
H	1.07556	-2.53723	1.34586
H	1.07556	-2.53723	-1.34586
C	1.74960	1.91804	0.00000
C	2.26385	1.26132	1.14810
C	2.26385	1.26132	-1.14810
H	1.05907	2.74763	0.00000
C	3.09363	0.19650	0.70999
H	2.02986	1.50329	2.17294
C	3.09363	0.19650	-0.70999
H	2.02986	1.50329	-2.17294
H	3.60885	-0.50773	1.34542
H	3.60885	-0.50773	-1.34542
C	-0.62509	-0.57606	2.59928
F	-1.93535	-0.71508	2.82933
F	0.01081	-1.47902	3.35942
F	-0.27108	0.62824	3.05568
C	-1.86108	0.94972	0.00000
F	-3.09585	0.43166	0.00000
F	-1.76283	1.73455	1.07564
F	-1.76283	1.73455	-1.07564
C	-0.62509	-0.57606	-2.59928
F	-1.93535	-0.71508	-2.82933
F	-0.27108	0.62824	-3.05568
F	0.01081	-1.47902	-3.35942

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Energy: -2303910.0976541

Fe	0.00000	0.00000	0.60989
C	0.15972	1.90276	1.30579
C	0.00000	1.92243	-0.11592
C	-0.98100	1.28095	1.87392
C	-1.25670	1.30154	-0.40191
C	-1.84476	0.90737	0.82602
H	-1.12753	1.08652	2.92481
H	-2.77987	0.37906	0.92218
C	0.00000	-1.92243	-0.11592
C	1.25670	-1.30154	-0.40191
C	-0.15972	-1.90276	1.30579
C	1.84476	-0.90737	0.82602
C	0.98100	-1.28095	1.87392
H	2.77987	-0.37906	0.92218
H	1.12753	-1.08652	2.92481

C	1.25172	2.49574	2.14407
F	1.03013	3.79402	2.36162
F	1.29293	1.89531	3.34306
F	2.46127	2.37936	1.59892
C	0.92578	2.62133	-1.07861
F	1.05526	3.90582	-0.72339
F	2.14847	2.09009	-1.09394
F	0.46110	2.59170	-2.32217
C	-1.99166	1.19471	-1.71265
F	-2.28521	2.41260	-2.18015
F	-1.31882	0.54452	-2.65535
F	-3.15209	0.55655	-1.53080
C	1.99166	-1.19471	-1.71265
F	2.28521	-2.41260	-2.18015
F	1.31882	-0.54452	-2.65535
F	3.15209	-0.55655	-1.53080
C	-0.92578	-2.62133	-1.07861
F	-0.46110	-2.59170	-2.32217
F	-1.05526	-3.90582	-0.72339
F	-2.14847	-2.09009	-1.09394
C	-1.25172	-2.49574	2.14407
F	-2.46127	-2.37936	1.59892
F	-1.03013	-3.79402	2.36162
F	-1.29293	-1.89531	3.34306

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Energy: -2092508.9304774

Fe	0.00000	0.00000	1.07389
C	0.37668	-1.15932	-0.55259
C	-0.98617	-0.71650	-0.55259
C	1.21898	0.00000	-0.55259
C	-0.98617	0.71650	-0.55259
C	0.37668	1.15932	-0.55259
C	0.03611	-1.20652	2.73354
C	1.15862	-0.33849	2.73354
C	-1.13631	-0.40718	2.73354
H	0.06896	-2.28445	2.69298
C	0.67996	0.99732	2.73354
H	2.19396	-0.64035	2.69298
C	-0.73838	0.95487	2.73354
H	-2.15133	-0.77152	2.69298
H	1.28698	1.88870	2.69298
H	-1.39856	1.80763	2.69298
C	0.82574	2.60652	-0.62216
F	0.40397	3.16650	-1.75856
F	0.36157	3.33299	0.39908
F	2.14831	2.73143	-0.59939
C	-2.22378	1.59078	-0.62216
F	-3.05813	1.37382	0.39908
F	-1.93388	2.88722	-0.59939
F	-2.88668	1.36270	-1.75856
C	2.73412	0.02013	-0.62216
F	3.13635	0.59430	-1.75856
F	3.28159	0.68608	0.39908
F	3.26161	-1.19911	-0.59939
C	-2.20011	-1.62336	-0.62216
F	-3.34351	-0.94703	-0.59939

F	-2.18804	-2.32430	-1.75856
F	-2.25159	-2.48392	0.39908
C	0.86403	-2.59408	-0.62216
F	1.53440	-2.79920	-1.75856
F	1.66657	-2.90897	0.39908
F	-0.13253	-3.47252	-0.59939

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Energy: -2092509.4861370

Fe	0.01604	0.01417	1.07492
C	1.15005	0.41210	-0.54383
C	0.73647	-0.95842	-0.57988
C	-0.02766	1.22979	-0.56122
C	-0.69113	-0.98797	-0.53243
C	-1.16648	0.36155	-0.54902
C	1.24007	0.09427	2.72024
C	0.33151	1.18375	2.73240
C	0.48410	-1.10703	2.72939
H	2.31560	0.16588	2.66908
C	-0.98554	0.65580	2.74774
H	0.59480	2.22962	2.68984
C	-0.89126	-0.76018	2.74645
H	0.88545	-2.10761	2.67996
H	-1.89901	1.22919	2.71870
H	-1.72057	-1.45030	2.71758
C	-2.62918	0.75059	-0.65429
F	-3.22316	0.01886	-1.60170
F	-3.29984	0.56547	0.48638
F	-2.79277	2.02457	-0.99216
C	-1.54342	-2.23385	-0.45142
F	-0.97810	-3.16348	0.32557
F	-2.73916	-1.98047	0.08159
F	-1.74770	-2.76817	-1.65458
C	-0.09150	2.73456	-0.71158
F	-0.59769	3.05402	-1.90581
F	-0.85177	3.30192	0.22957
F	1.10426	3.30927	-0.64446
C	1.64240	-2.14798	-0.83725
F	0.95830	-3.18051	-1.32598
F	2.55309	-1.83733	-1.76332
F	2.28490	-2.57334	0.25175
C	2.58569	0.88747	-0.46157
F	3.00237	1.37180	-1.63189
F	2.75873	1.83743	0.46102
F	3.40653	-0.10470	-0.11434

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Energy: -2092487.5042607

Fe	0.00000	0.00000	1.18822
C	0.72159	-0.99319	-0.43110
C	-0.72159	-0.99319	-0.43110
C	1.16756	0.37936	-0.43110
C	-1.16756	0.37936	-0.43110
C	0.00000	1.22765	-0.43110
C	0.70992	-0.97712	2.84361
C	1.14867	0.37323	2.84361

C	-0.70992	-0.97712	2.84361
H	1.34414	-1.85005	2.81039
C	0.00000	1.20779	2.84361
H	2.17487	0.70666	2.81039
C	-1.14867	0.37323	2.84361
H	-1.34414	-1.85005	2.81039
H	0.00000	2.28679	2.81039
H	-2.17487	0.70666	2.81039
C	0.00000	2.74797	-0.63346
F	0.00000	2.97839	-1.95464
F	-1.04562	3.37604	-0.11509
F	1.04562	3.37604	-0.11509
C	-2.61347	0.84917	-0.63346
F	-3.53392	0.04881	-0.11509
F	-2.88769	2.03770	-0.11509
F	-2.83262	0.92037	-1.95464
C	2.61347	0.84917	-0.63346
F	2.83262	0.92037	-1.95464
F	2.88769	2.03770	-0.11509
F	3.53392	0.04881	-0.11509
C	-1.61521	-2.22315	-0.63346
F	-2.83031	-2.11667	-0.11509
F	-1.75065	-2.40957	-1.95464
F	-1.13846	-3.34587	-0.11509
C	1.61521	-2.22315	-0.63346
F	1.75065	-2.40957	-1.95464
F	2.83031	-2.11667	-0.11509
F	1.13846	-3.34587	-0.11509

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Energy: -3149386.9508965

Fe	0.00000	0.00000	0.00000
C	-0.71947	-0.99027	1.67257
C	0.71947	-0.99027	1.67257
C	-1.16413	0.37825	1.67257
C	1.16413	0.37825	1.67257
C	0.00000	1.22404	1.67257
C	-0.71947	-0.99027	-1.67257
C	-1.16413	0.37825	-1.67257
C	0.71947	-0.99027	-1.67257
C	0.00000	1.22404	-1.67257
C	1.16413	0.37825	-1.67257
C	0.00000	2.74104	1.94803
F	0.00000	2.87755	3.28130
F	1.04733	3.38588	1.46952
F	-1.04733	3.38588	1.46952
C	2.60688	0.84703	1.94803
F	3.54381	0.05022	1.46952
F	2.89652	2.04237	1.46952
F	2.73671	0.88921	3.28130
C	-2.60688	0.84703	1.94803
F	-2.73671	0.88921	3.28130
F	-2.89652	2.04237	1.46952
F	-3.54381	0.05022	1.46952
C	1.61114	-2.21754	1.94803
F	2.83748	-2.12363	1.46952
F	1.69138	-2.32798	3.28130

F	1.14286	-3.35484	1.46952
C	-1.61114	-2.21754	1.94803
F	-1.69138	-2.32798	3.28130
F	-2.83748	-2.12363	1.46952
F	-1.14286	-3.35484	1.46952
C	0.00000	2.74104	-1.94803
F	-1.04733	3.38588	-1.46952
F	1.04733	3.38588	-1.46952
F	0.00000	2.87755	-3.28130
C	-2.60688	0.84703	-1.94803
F	-2.89652	2.04237	-1.46952
F	-2.73671	0.88921	-3.28130
F	-3.54381	0.05022	-1.46952
C	-1.61114	-2.21754	-1.94803
F	-2.83748	-2.12363	-1.46952
F	-1.69138	-2.32798	-3.28130
F	-1.14286	-3.35484	-1.46952
C	1.61114	-2.21754	-1.94803
F	1.14286	-3.35484	-1.46952
F	1.69138	-2.32798	-3.28130
F	2.83748	-2.12363	-1.46952
C	2.60688	0.84703	-1.94803
F	3.54381	0.05022	-1.46952
F	2.73671	0.88921	-3.28130
F	2.89652	2.04237	-1.46952

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Energy: -3149424.2420272

Fe	0.00000	0.00000	0.00000
C	-1.11171	-0.49063	1.69835
C	0.12308	-1.20891	1.69835
C	-0.81016	0.90568	1.69835
C	1.18778	-0.25651	1.69835
C	0.61100	1.05038	1.69835
C	-1.18778	-0.25651	-1.69835
C	-0.61100	1.05038	-1.69835
C	-0.12308	-1.20891	-1.69835
C	0.81016	0.90568	-1.69835
C	1.11171	-0.49063	-1.69835
C	1.34815	2.37025	1.90642
F	1.01347	2.85709	3.10450
F	2.66424	2.22793	1.89980
F	1.04837	3.27288	0.98079
C	2.67085	-0.54972	1.90642
F	2.94219	-1.84538	1.89980
F	3.43666	0.01431	0.98079
F	3.03043	-0.08098	3.10450
C	-1.83764	2.01462	1.90642
F	-2.40407	1.84676	3.10450
F	-1.29560	3.22232	1.89980
F	-2.78873	2.00843	0.98079
C	0.30252	-2.71000	1.90642
F	1.07560	-3.26403	0.98079
F	0.85944	-2.90714	3.10450
F	-0.84587	-3.36844	1.89980
C	-2.48388	-1.12515	1.90642
F	-2.49927	-1.71573	3.10450

F	-3.46496	-0.23643	1.89980
F	-2.77190	-2.03160	0.98079
C	1.83764	2.01462	-1.90642
F	1.29560	3.22232	-1.89980
F	2.78873	2.00843	-0.98079
F	2.40407	1.84676	-3.10450
C	-1.34815	2.37025	-1.90642
F	-1.04837	3.27288	-0.98079
F	-1.01347	2.85709	-3.10450
F	-2.66424	2.22793	-1.89980
C	-2.67085	-0.54972	-1.90642
F	-3.43666	0.01431	-0.98079
F	-3.03043	-0.08098	-3.10450
F	-2.94219	-1.84538	-1.89980
C	-0.30252	-2.71000	-1.90642
F	-1.07560	-3.26403	-0.98079
F	-0.85944	-2.90714	-3.10450
F	0.84587	-3.36844	-1.89980
C	2.48388	-1.12515	-1.90642
F	2.77190	-2.03160	-0.98079
F	2.49927	-1.71573	-3.10450
F	3.46496	-0.23643	-1.89980

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Energy: -2092486.6956708

Fe	0.00000	0.00000	1.18748
C	0.00000	1.22725	-0.43557
C	1.16719	0.37924	-0.43557
C	-1.16719	0.37924	-0.43557
C	0.72136	-0.99287	-0.43557
C	-0.72136	-0.99287	-0.43557
C	1.14823	-0.37308	2.84818
C	0.70964	0.97674	2.84818
C	0.00000	-1.20732	2.84818
H	2.17428	-0.70647	2.80792
C	-0.70964	0.97674	2.84818
H	1.34378	1.84955	2.80792
C	-1.14823	-0.37308	2.84818
H	0.00000	-2.28617	2.80792
H	-1.34378	1.84955	2.80792
H	-2.17428	-0.70647	2.80792
C	0.00000	2.74829	-0.63419
F	0.00000	2.98173	-1.95483
F	-1.04558	3.37530	-0.11444
F	1.04558	3.37530	-0.11444
C	2.61378	0.84927	-0.63419
F	2.83580	0.92141	-1.95483
F	2.88700	2.03743	-0.11444
F	3.53321	0.04862	-0.11444
C	1.61540	-2.22341	-0.63419
F	1.75262	-2.41227	-1.95483
F	2.82985	-2.11610	-0.11444
F	1.13807	-3.34525	-0.11444
C	-2.61378	0.84927	-0.63419
F	-2.88700	2.03743	-0.11444
F	-2.83580	0.92141	-1.95483
F	-3.53321	0.04862	-0.11444



C	-1.61540	-2.22341	-0.63419
F	-1.13807	-3.34525	-0.11444
F	-2.82985	-2.11610	-0.11444
F	-1.75262	-2.41227	-1.95483

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Energy: -3149423.9103132

Fe	0.00000	0.00000	0.00000
C	-0.00367	1.21621	1.69980
C	-1.15689	0.37351	1.70063
C	1.15419	0.37986	1.70031
C	-0.71179	-0.98374	1.70123
C	0.71660	-0.97980	1.70104
C	-1.15419	-0.37986	-1.70031
C	-0.71660	0.97980	-1.70104
C	0.00367	-1.21621	-1.69980
C	0.71179	0.98374	-1.70123
C	1.15689	-0.37351	-1.70063
C	0.01587	2.72872	1.90298
F	0.54653	2.98743	3.10132
F	0.72669	3.36010	0.97714
F	-1.19614	3.26108	1.89261
C	-2.58884	0.85991	1.90601
F	-2.66781	1.44748	3.10314
F	-2.97202	1.72876	0.97905
F	-3.46971	-0.12828	1.90043
C	-1.61677	-2.19513	1.90745
F	-2.19742	-2.08963	3.10592
F	-2.56353	-2.28963	0.98240
F	-0.94955	-3.33846	1.89934
C	2.59819	0.82848	1.90588
F	2.72968	2.14575	1.89912
F	3.00717	0.40073	3.10353
F	3.41913	0.35000	0.97973
C	1.58944	-2.21491	1.90498
F	1.38520	-3.14358	0.97927
F	2.88301	-1.93363	1.89481
F	1.31172	-2.73575	3.10334
C	-0.01587	-2.72872	-1.90298
F	-0.54653	-2.98743	-3.10132
F	1.19614	-3.26108	-1.89261
F	-0.72669	-3.36010	-0.97714
C	-2.59819	-0.82848	-1.90588
F	-3.00717	-0.40073	-3.10353
F	-2.72968	-2.14575	-1.89912
F	-3.41913	-0.35000	-0.97973
C	2.58884	-0.85991	-1.90601
F	2.97202	-1.72876	-0.97905
F	2.66781	-1.44748	-3.10314
F	3.46971	0.12828	-1.90043
C	1.61677	2.19513	-1.90745
F	2.56353	2.28963	-0.98240
F	2.19742	2.08963	-3.10592
F	0.94955	3.33846	-1.89934
C	-1.58944	2.21491	-1.90498
F	-1.31172	2.73575	-3.10334
F	-2.88301	1.93363	-1.89481

F	-1.38520	3.14358	-0.97927
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Energy: -1881143.4064973

Fe	0.00000	0.00000	0.40707
C	0.73096	1.46838	1.63602
C	1.74489	1.02244	0.75862
C	-0.34658	1.95374	0.84318
H	0.74887	1.41648	2.71343
C	1.29272	1.23508	-0.57294
H	2.67982	0.56355	1.04110
C	0.00000	1.81990	-0.52669
C	0.34658	-1.95374	0.84318
C	-0.73096	-1.46838	1.63602
C	0.00000	-1.81990	-0.52669
C	-1.74489	-1.02244	0.75862
H	-0.74887	-1.41648	2.71343
C	-1.29272	-1.23508	-0.57294
H	0.61630	-2.08115	-1.37285
H	-2.67982	-0.56355	1.04110
C	2.08434	0.97087	-1.80809
F	2.88314	-0.09323	-1.67013
F	1.29989	0.76045	-2.86803
F	2.87225	2.01573	-2.10135
H	-0.61630	2.08115	-1.37285
C	-1.60029	2.56041	1.37148
F	-2.62447	2.41115	0.52689
F	-1.95592	2.01796	2.54473
F	-1.44971	3.87521	1.58087
C	-2.08434	-0.97087	-1.80809
F	-2.88314	0.09323	-1.67013
F	-1.29989	-0.76045	-2.86803
F	-2.87225	-2.01573	-2.10135
C	1.60029	-2.56041	1.37148
F	2.62447	-2.41115	0.52689
F	1.95592	-2.01796	2.54473
F	1.44971	-3.87521	1.58087

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Energy: -1881143.4064973

Fe	0.00000	0.00000	0.40707
C	1.74490	-1.02242	0.75860
C	0.73098	-1.46837	1.63602
C	1.29272	-1.23507	-0.57295
H	2.67983	-0.56353	1.04107
C	-0.34656	-1.95374	0.84319
H	0.74892	-1.41647	2.71342
C	0.00000	-1.81990	-0.52668
C	0.34656	1.95374	0.84319
C	0.00000	1.81990	-0.52668
C	-0.73098	1.46837	1.63602
C	-1.29272	1.23507	-0.57295
H	0.61631	2.08116	-1.37283
C	-1.74490	1.02242	0.75860
H	-0.74892	1.41647	2.71342
H	-2.67983	0.56353	1.04107

C	-1.60026	-2.56042	1.37151
F	-1.95591	-2.01793	2.54474
F	-2.62444	-2.41121	0.52691
F	-1.44966	-3.87520	1.58095
H	-0.61631	-2.08116	-1.37283
C	2.08432	-0.97086	-1.80811
F	2.88307	0.09328	-1.67019
F	2.87228	-2.01569	-2.10135
F	1.29985	-0.76050	-2.86805
C	-2.08432	0.97086	-1.80811
F	-2.87228	2.01569	-2.10135
F	-1.29985	0.76050	-2.86805
F	-2.88307	-0.09328	-1.67019
C	1.60026	2.56042	1.37151
F	2.62444	2.41121	0.52691
F	1.44966	3.87520	1.58095
F	1.95591	2.01793	2.54474

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Energy: -1458355.4999544

Fe	-0.75484	-0.18116	0.00000
C	0.55940	-1.58512	0.70684
C	0.55940	-1.58512	-0.70684
C	0.91798	-0.27776	1.14142
H	0.30223	-2.41361	1.34802
C	0.91798	-0.27776	-1.14142
H	0.30223	-2.41361	-1.34802
C	1.15286	0.53394	0.00000
C	-2.61400	-0.66519	0.71014
C	-2.24192	0.63271	1.14852
C	-2.61400	-0.66519	-0.71014
H	-2.82833	-1.51063	1.34594
C	-2.01250	1.43525	0.00000
H	-2.11764	0.94366	2.17468
C	-2.24192	0.63271	-1.14852
H	-2.82833	-1.51063	-1.34594
H	-1.68718	2.46429	0.00000
H	-2.11764	0.94366	-2.17468
C	1.08260	0.15094	-2.55524
F	0.26611	-0.51842	-3.38050
F	0.83813	1.45822	-2.71545
F	2.33352	-0.06486	-2.99162
H	1.42982	1.57620	0.00000
C	1.08260	0.15094	2.55524
F	0.83813	1.45822	2.71545
F	0.26611	-0.51842	3.38050
F	2.33352	-0.06486	2.99162

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Energy: -1881137.3375395

Fe	0.00000	0.00000	0.49096
C	-0.70664	1.62840	1.52756
C	0.70664	1.62840	1.52756
C	-1.13960	1.68548	0.17534
H	-1.35091	1.57475	2.39132
C	1.13960	1.68548	0.17534

H	1.35091	1.57475	2.39132
C	0.00000	1.71468	-0.66636
C	-0.70664	-1.62840	1.52756
C	-1.13960	-1.68548	0.17534
C	0.70664	-1.62840	1.52756
H	-1.35091	-1.57475	2.39132
C	0.00000	-1.71468	-0.66636
C	1.13960	-1.68548	0.17534
H	1.35091	-1.57475	2.39132
H	0.00000	-1.76369	-1.74400
C	2.54222	1.91856	-0.27341
F	3.43597	1.40282	0.57272
F	2.77577	1.42185	-1.48885
F	2.78454	3.23862	-0.33815
H	0.00000	1.76369	-1.74400
C	-2.54222	1.91856	-0.27341
F	-2.78454	3.23862	-0.33815
F	-2.77577	1.42185	-1.48885
F	-3.43597	1.40282	0.57272
C	2.54222	-1.91856	-0.27341
F	2.77577	-1.42185	-1.48885
F	3.43597	-1.40282	0.57272
F	2.78454	-3.23862	-0.33815
C	-2.54222	-1.91856	-0.27341
F	-3.43597	-1.40282	0.57272
F	-2.77577	-1.42185	-1.48885
F	-2.78454	-3.23862	-0.33815

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Energy: -1881143.4064785

Fe	0.00000	0.00000	0.40709
C	0.34668	1.95374	0.84311
C	0.00000	1.81987	-0.52673
C	-0.73082	1.46845	1.63605
C	-1.29275	1.23511	-0.57286
C	-1.74483	1.02253	0.75874
H	-0.74866	1.41659	2.71346
H	-2.67977	0.56369	1.04129
C	0.00000	-1.81987	-0.52673
C	1.29275	-1.23511	-0.57286
C	-0.34668	-1.95374	0.84311
H	-0.61624	-2.08109	-1.37295
C	1.74483	-1.02253	0.75874
C	0.73082	-1.46845	1.63605
H	2.67977	-0.56369	1.04129
H	0.74866	-1.41659	2.71346
C	1.60044	2.56040	1.37132
F	1.44996	3.87524	1.58051
F	1.95602	2.01809	2.54465
F	2.62461	2.41093	0.52675
H	0.61624	2.08109	-1.37295
C	-2.08448	0.97093	-1.80794
F	-1.30014	0.76009	-2.86788
F	-2.88360	-0.09290	-1.66977
F	-2.87209	2.01598	-2.10136
C	2.08448	-0.97093	-1.80794
F	1.30014	-0.76009	-2.86788

F	2.88360	0.09290	-1.66977
F	2.87209	-2.01598	-2.10136
C	-1.60044	-2.56040	1.37132
F	-2.62461	-2.41093	0.52675
F	-1.44996	-3.87524	1.58051
F	-1.95602	-2.01809	2.54465

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Energy: -1881140.3447092

Fe	0.00000	0.00000	0.00000
C	1.67220	0.31225	1.14012
C	2.00114	-0.46243	0.00000
C	1.14511	1.56005	0.70624
C	1.67220	0.31225	-1.14012
C	1.14511	1.56005	-0.70624
H	0.77814	2.34403	1.35017
H	0.77814	2.34403	-1.35017
C	-1.14511	-1.56005	-0.70624
C	-1.14511	-1.56005	0.70624
C	-1.67220	-0.31225	-1.14012
H	-0.77814	-2.34403	-1.35017
C	-1.67220	-0.31225	1.14012
H	-0.77814	-2.34403	1.35017
C	-2.00114	0.46243	0.00000
H	-2.41593	1.45860	0.00000
C	1.97335	-0.07513	2.54775
F	3.27654	0.10341	2.81366
F	1.28985	0.65992	3.42507
F	1.70561	-1.36530	2.78489
H	2.41593	-1.45860	0.00000
C	1.97335	-0.07513	-2.54775
F	1.70561	-1.36530	-2.78489
F	1.28985	0.65992	-3.42507
F	3.27654	0.10341	-2.81366
C	-1.97335	0.07513	2.54775
F	-1.28985	-0.65992	3.42507
F	-1.70561	1.36530	2.78489
F	-3.27654	-0.10341	2.81366
C	-1.97335	0.07513	-2.54775
F	-1.70561	1.36530	-2.78489
F	-1.28985	-0.65992	-3.42507
F	-3.27654	-0.10341	-2.81366

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Energy: -1458355.4999544

Fe	0.75483	-0.18118	0.00000
C	-0.91799	-0.27776	1.14142
C	-1.15286	0.53394	0.00000
C	-0.55941	-1.58512	0.70684
C	-0.91799	-0.27776	-1.14142
C	-0.55941	-1.58512	-0.70684
H	-0.30224	-2.41361	1.34801
H	-0.30224	-2.41361	-1.34801
C	2.24190	0.63271	-1.14853
C	2.01250	1.43524	0.00000
C	2.61399	-0.66519	-0.71017

H	2.11761	0.94368	-2.17468
C	2.24190	0.63271	1.14853
H	1.68718	2.46429	0.00000
C	2.61399	-0.66519	0.71017
H	2.82831	-1.51063	-1.34598
H	2.11761	0.94368	2.17468
H	2.82831	-1.51063	1.34598
C	-1.08258	0.15094	2.55525
F	-2.33351	-0.06485	2.99163
F	-0.26610	-0.51842	3.38050
F	-0.83811	1.45822	2.71546
H	-1.42981	1.57621	0.00000
C	-1.08258	0.15094	-2.55525
F	-0.83811	1.45822	-2.71546
F	-0.26610	-0.51842	-3.38050
F	-2.33351	-0.06485	-2.99163

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Energy: -1881143.4064911

Fe	0.00000	0.00000	0.40707
C	0.34659	1.95374	0.84317
C	0.00000	1.81989	-0.52670
C	-0.73094	1.46839	1.63603
C	-1.29272	1.23508	-0.57293
C	-1.74488	1.02245	0.75864
H	-0.74884	1.41650	2.71343
H	-2.67981	0.56358	1.04113
C	1.29272	-1.23508	-0.57293
C	1.74488	-1.02245	0.75864
C	0.00000	-1.81989	-0.52670
C	0.73094	-1.46839	1.63603
H	2.67981	-0.56358	1.04113
C	-0.34659	-1.95374	0.84317
H	-0.61629	-2.08114	-1.37287
H	0.74884	-1.41650	2.71343
C	1.60032	2.56041	1.37145
F	1.44975	3.87521	1.58082
F	1.95594	2.01797	2.54471
F	2.62449	2.41113	0.52686
H	0.61629	2.08114	-1.37287
C	-2.08436	0.97088	-1.80806
F	-1.29994	0.76038	-2.86800
F	-2.88323	-0.09316	-1.67006
F	-2.87222	2.01578	-2.10136
C	2.08436	-0.97088	-1.80806
F	2.87222	-2.01578	-2.10136
F	1.29994	-0.76038	-2.86800
F	2.88323	0.09316	-1.67006
C	-1.60032	-2.56041	1.37145
F	-2.62449	-2.41113	0.52686
F	-1.44975	-3.87521	1.58082
F	-1.95594	-2.01797	2.54471

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Energy: -2303919.2758022

Fe	0.00000	0.00000	0.27210
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C	0.36021	1.72476	1.31794
C	1.52227	0.91405	1.27908
C	0.00000	2.02711	-0.01943
H	-0.17945	2.02997	2.20072
C	1.89861	0.72585	-0.07370
C	0.96067	1.41107	-0.88208
C	-1.52227	-0.91405	1.27908
C	-1.89861	-0.72585	-0.07370
C	-0.36021	-1.72476	1.31794
C	-0.96067	-1.41107	-0.88208
H	-2.73147	-0.14272	-0.43386
C	0.00000	-2.02711	-0.01943
H	0.17945	-2.02997	2.20072
C	1.13065	1.59423	-2.36024
F	1.71954	2.77247	-2.60372
F	1.91767	0.64573	-2.86894
F	-0.02191	1.58149	-3.02372
C	-1.13804	2.93194	-0.39481
F	-0.68531	4.02086	-1.02190
F	-2.03109	2.35218	-1.19960
F	-1.78909	3.33548	0.69948
H	2.73147	0.14272	-0.43386
C	2.28150	0.41196	2.46278
F	2.90457	-0.73920	2.19429
F	3.21723	1.29419	2.83129
F	1.48603	0.21349	3.51709
C	-1.13065	-1.59423	-2.36024
F	-1.71954	-2.77247	-2.60372
F	-1.91767	-0.64573	-2.86894
F	0.02191	-1.58149	-3.02372
C	1.13804	-2.93194	-0.39481
F	0.68531	-4.02086	-1.02190
F	2.03109	-2.35218	-1.19960
F	1.78909	-3.33548	0.69948
C	-2.28150	-0.41196	2.46278
F	-1.48603	-0.21349	3.51709
F	-2.90457	0.73920	2.19429
F	-3.21723	-1.29419	2.83129

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Energy: -2303916.1797646

Fe	0.00000	0.00000	0.12008
C	1.26605	1.24624	-0.92719
C	1.08965	1.73653	0.38810
C	1.80889	-0.05938	-0.83459
H	1.00974	1.76157	-1.83916
C	1.52411	0.74675	1.30238
C	1.97785	-0.36485	0.55281
C	-1.80889	0.05938	-0.83459
C	-1.26605	-1.24624	-0.92719
C	-1.97785	0.36485	0.55281
C	-1.08965	-1.73653	0.38810
H	-1.00974	-1.76157	-1.83916
C	-1.52411	-0.74675	1.30238
H	-1.51764	-0.82050	2.37869
C	2.71895	-1.50823	1.17667
F	4.03144	-1.23906	1.17918

F	2.34903	-1.67652	2.44884
F	2.55230	-2.65982	0.53629
C	2.22268	-0.87093	-2.02764
F	3.54916	-1.02615	-2.05118
F	1.67814	-2.08766	-2.05925
F	1.86726	-0.24640	-3.15523
H	1.51764	0.82050	2.37869
C	0.72605	3.14027	0.75086
F	0.05971	3.20384	1.90433
F	1.84519	3.86456	0.90343
F	0.00000	3.73175	-0.19406
C	-2.22268	0.87093	-2.02764
F	-3.54916	1.02615	-2.05118
F	-1.67814	2.08766	-2.05925
F	-1.86726	0.24640	-3.15523
C	-2.71895	1.50823	1.17667
F	-2.55230	2.65982	0.53629
F	-4.03144	1.23906	1.17918
F	-2.34903	1.67652	2.44884
C	-0.72605	-3.14027	0.75086
F	0.00000	-3.73175	-0.19406
F	-0.05971	-3.20384	1.90433
F	-1.84519	-3.86456	0.90343

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Energy: -1669746.3088512

Fe	-0.41686	0.81342	-0.02003
C	-0.55762	-0.84135	1.16846
C	-1.37367	-0.98130	0.01782
C	0.77702	-0.64389	0.72930
H	-0.88895	-0.84956	2.19455
C	-0.55388	-0.89583	-1.13571
C	0.78009	-0.67883	-0.70384
C	-0.99697	2.41650	1.11466
C	0.31853	2.61658	0.61846
C	-1.86547	2.26039	0.00274
H	-1.28096	2.35861	2.15431
C	0.26198	2.58537	-0.79889
H	1.21151	2.73277	1.21352
C	-1.08756	2.36458	-1.18023
H	-2.92471	2.05785	0.04930
H	1.10527	2.67179	-1.46643
H	-1.45335	2.26093	-2.19036
C	1.94869	-0.61619	-1.63734
F	2.75977	-1.66599	-1.45793
F	1.53103	-0.64683	-2.90960
F	2.69571	0.48216	-1.49717
C	1.93542	-0.53888	1.66614
F	2.52712	-1.72904	1.83298
F	2.87548	0.31109	1.24906
F	1.53081	-0.12920	2.87629
H	-0.88160	-0.95652	-2.16094
C	-2.84018	-1.23640	0.02070
F	-3.43599	-0.73450	-1.06810
F	-3.10578	-2.55009	0.03962
F	-3.43674	-0.70309	1.09409



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Energy: -2303911.4531248

Fe	0.00000	0.00000	0.35074
C	-1.14835	1.66963	0.75905
C	0.00000	1.66392	1.58379
C	-0.71491	1.69525	-0.58979
H	-2.17488	1.66144	1.09032
C	1.14835	1.66963	0.75905
C	0.71491	1.69525	-0.58979
C	-1.14835	-1.66963	0.75905
C	-0.71491	-1.69525	-0.58979
C	0.00000	-1.66392	1.58379
H	-2.17488	-1.66144	1.09032
C	0.71491	-1.69525	-0.58979
C	1.14835	-1.66963	0.75905
H	2.17488	-1.66144	1.09032
C	1.67302	1.94588	-1.71793
F	1.75274	3.26549	-1.94167
F	2.89917	1.52596	-1.38834
F	1.33506	1.36968	-2.86148
C	-1.67302	1.94588	-1.71793
F	-1.75274	3.26549	-1.94167
F	-1.33506	1.36968	-2.86148
F	-2.89917	1.52596	-1.38834
H	2.17488	1.66144	1.09032
C	0.00000	1.88951	3.06072
F	1.08269	1.38358	3.64947
F	0.00000	3.20873	3.30368
F	-1.08269	1.38358	3.64947
C	-1.67302	-1.94588	-1.71793
F	-2.89917	-1.52596	-1.38834
F	-1.33506	-1.36968	-2.86148
F	-1.75274	-3.26549	-1.94167
C	1.67302	-1.94588	-1.71793
F	1.75274	-3.26549	-1.94167
F	1.33506	-1.36968	-2.86148
F	2.89917	-1.52596	-1.38834
C	0.00000	-1.88951	3.06072
F	1.08269	-1.38358	3.64947
F	-1.08269	-1.38358	3.64947
F	0.00000	-3.20873	3.30368

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Energy: -2303916.1797646

Fe	0.00000	0.00000	0.12008
C	1.52411	0.74675	1.30238
C	1.97785	-0.36485	0.55281
C	1.08965	1.73653	0.38810
C	1.80889	-0.05938	-0.83459
C	1.26605	1.24624	-0.92719
H	1.00974	1.76157	-1.83916
C	-1.26605	-1.24624	-0.92719
C	-1.08965	-1.73653	0.38810
C	-1.80889	0.05938	-0.83459
H	-1.00974	-1.76157	-1.83916
C	-1.52411	-0.74675	1.30238

C	-1.97785	0.36485	0.55281
H	-1.51764	-0.82050	2.37869
C	2.71895	-1.50823	1.17667
F	4.03144	-1.23906	1.17918
F	2.34903	-1.67652	2.44884
F	2.55230	-2.65982	0.53629
C	2.22268	-0.87093	-2.02764
F	3.54916	-1.02615	-2.05118
F	1.67814	-2.08766	-2.05925
F	1.86727	-0.24639	-3.15523
H	1.51764	0.82050	2.37869
C	-2.22268	0.87093	-2.02764
F	-1.67814	2.08766	-2.05925
F	-1.86727	0.24639	-3.15523
F	-3.54916	1.02615	-2.05118
C	-2.71895	1.50823	1.17667
F	-2.55230	2.65982	0.53629
F	-4.03144	1.23906	1.17918
F	-2.34903	1.67652	2.44884
C	0.72605	3.14027	0.75086
F	0.00000	3.73175	-0.19406
F	0.05971	3.20384	1.90433
F	1.84519	3.86456	0.90343
C	-0.72605	-3.14027	0.75086
F	0.00000	-3.73175	-0.19406
F	-0.05971	-3.20384	1.90433
F	-1.84519	-3.86456	0.90343

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Energy: -2303912.6241077

Fe	0.00000	0.00000	0.00000
C	-1.70377	0.23182	1.14739
C	-1.22032	1.49161	0.71659
C	-2.00589	-0.53650	0.00000
C	-1.22032	1.49161	-0.71659
C	-1.70377	0.23182	-1.14739
H	-1.80808	-0.08465	-2.17369
C	2.00589	0.53650	0.00000
C	1.70377	-0.23182	1.14739
C	1.70377	-0.23182	-1.14739
C	1.22032	-1.49161	0.71659
H	1.80808	0.08465	2.17369
C	1.22032	-1.49161	-0.71659
H	1.80808	0.08465	-2.17369
C	-0.98403	2.60267	1.69738
F	-2.13040	3.26442	1.90638
F	-0.59628	2.10220	2.87820
F	-0.07795	3.48971	1.31541
C	-0.98403	2.60267	-1.69738
F	-2.13040	3.26442	-1.90638
F	-0.07795	3.48971	-1.31541
F	-0.59628	2.10220	-2.87820
H	-1.80808	-0.08465	2.17369
C	-2.75964	-1.82719	0.00000
F	-2.50663	-2.55987	1.08233
F	-4.07622	-1.56570	0.00000
F	-2.50663	-2.55987	-1.08233

C	0.98403	-2.60267	-1.69738
F	2.13040	-3.26442	-1.90638
F	0.07795	-3.48971	-1.31541
F	0.59628	-2.10220	-2.87820
C	0.98403	-2.60267	1.69738
F	0.07795	-3.48971	1.31541
F	2.13040	-3.26442	1.90638
F	0.59628	-2.10220	2.87820
C	2.75964	1.82719	0.00000
F	2.50663	2.55987	1.08233
F	4.07622	1.56570	0.00000
F	2.50663	2.55987	-1.08233

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Energy: -1669746.2920403

Fe	-0.81385	0.41425	0.00000
C	0.86840	0.55647	1.15217
C	0.66205	-0.77834	0.71705
C	0.98003	1.37453	0.00000
C	0.66205	-0.77834	-0.71705
C	0.86840	0.55647	-1.15217
H	0.90179	0.88590	-2.17817
C	-2.59952	-0.29972	0.70942
C	-2.39296	1.03470	1.14864
C	-2.59952	-0.29972	-0.70942
H	-2.69798	-1.16912	1.34117
C	-2.26508	1.85901	0.00000
H	-2.31336	1.36021	2.17462
C	-2.39296	1.03470	-1.14864
H	-2.69798	-1.16912	-1.34117
H	-2.06558	2.91985	0.00000
H	-2.31336	1.36021	-2.17462
C	0.57988	-1.93877	1.65654
F	1.71934	-2.64250	1.64889
F	0.38618	-1.51283	2.91196
F	-0.40710	-2.79083	1.37106
C	0.57988	-1.93877	-1.65654
F	1.71934	-2.64250	-1.64889
F	-0.40710	-2.79083	-1.37106
F	0.38618	-1.51283	-2.91196
H	0.90179	0.88590	2.17817
C	1.23282	2.84146	0.00000
F	0.71422	3.43680	1.08119
F	2.54625	3.10909	0.00000
F	0.71422	3.43680	-1.08119

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Energy: -2303919.2758022

Fe	0.00000	0.00000	0.27213
C	-0.36022	1.72478	1.31794
C	0.00000	2.02710	-0.01945
C	-1.52227	0.91407	1.27909
C	-0.96067	1.41104	-0.88208
C	-1.89861	0.72584	-0.07369
H	-2.73146	0.14270	-0.43384
C	0.96067	-1.41104	-0.88208

C	1.89861	-0.72584	-0.07369
C	0.00000	-2.02710	-0.01945
C	1.52227	-0.91407	1.27909
H	2.73146	-0.14270	-0.43384
C	0.36022	-1.72478	1.31794
H	-0.17944	-2.03001	2.20071
C	1.13803	2.93193	-0.39483
F	0.68528	4.02091	-1.02180
F	1.78916	3.33538	0.69946
F	2.03102	2.35222	-1.19971
C	-1.13068	1.59418	-2.36025
F	-1.71954	2.77243	-2.60373
F	0.02187	1.58141	-3.02375
F	-1.91772	0.64570	-2.86891
H	0.17944	2.03001	2.20071
C	-2.28150	0.41198	2.46280
F	-1.48603	0.21348	3.51709
F	-3.21720	1.29424	2.83133
F	-2.90461	-0.73915	2.19429
C	1.13068	-1.59418	-2.36025
F	1.71954	-2.77243	-2.60373
F	-0.02187	-1.58141	-3.02375
F	1.91772	-0.64570	-2.86891
C	-1.13803	-2.93193	-0.39483
F	-2.03102	-2.35222	-1.19971
F	-0.68528	-4.02091	-1.02180
F	-1.78916	-3.33538	0.69946
C	2.28150	-0.41198	2.46280
F	2.90461	0.73915	2.19429
F	1.48603	-0.21348	3.51709
F	3.21720	-1.29424	2.83133

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Energy: -2726679.7581607

Fe	0.00000	0.00000	0.26260
C	1.08394	1.52047	1.14684
C	1.67471	0.26949	1.42672
C	1.06827	1.70712	-0.25339
H	0.68906	2.20814	1.87634
C	2.03387	-0.33728	0.18712
C	1.66214	0.56052	-0.86164
C	-1.67471	-0.26949	1.42672
C	-2.03387	0.33728	0.18712
C	-1.08394	-1.52047	1.14684
C	-1.66214	-0.56052	-0.86164
C	-1.06827	-1.70712	-0.25339
H	-0.68906	-2.20814	1.87634
C	2.03232	0.39254	-2.32061
F	3.33866	0.12716	-2.41819
F	1.36911	-0.59375	-2.91453
F	1.80390	1.50643	-3.00747
C	2.85845	-1.59367	0.05718
F	2.57712	-2.45795	1.03234
F	2.67005	-2.21290	-1.10035
F	4.15451	-1.28639	0.15153
C	0.66051	3.02725	-0.86046
F	1.75362	3.71787	-1.19964

F	-0.11115	2.92602	-1.93039
F	0.00000	3.75132	0.04954
C	1.97693	-0.19919	2.82855
F	1.34032	-1.31889	3.17306
F	3.28451	-0.41557	2.97131
F	1.62361	0.74304	3.70478
C	-0.66051	-3.02725	-0.86046
F	0.11115	-2.92602	-1.93039
F	0.00000	-3.75132	0.04954
F	-1.75362	-3.71787	-1.19964
C	-2.03232	-0.39254	-2.32061
F	-1.80390	-1.50643	-3.00747
F	-3.33866	-0.12716	-2.41819
F	-1.36911	0.59375	-2.91453
C	-2.85845	1.59367	0.05718
F	-2.67005	2.21290	-1.10035
F	-4.15451	1.28639	0.15153
F	-2.57712	2.45795	1.03234
C	-1.97693	0.19919	2.82855
F	-1.34032	1.31889	3.17306
F	-3.28451	0.41557	2.97131
F	-1.62361	-0.74304	3.70478

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Energy:	-1220.6449577		
Fe	0.00000	0.00000	0.09486
C	0.13126	1.66593	1.29718
C	1.31944	0.84703	1.42897
C	0.00000	2.03772	-0.07637
H	-0.42490	2.11192	2.12899
C	1.92263	0.69691	0.12437
C	1.07987	1.40281	-0.81716
C	-1.92263	-0.69691	0.12437
C	-1.07987	-1.40281	-0.81716
C	-1.31944	-0.84703	1.42897
C	0.00000	-2.03772	-0.07637
C	-0.13126	-1.66593	1.29718
H	0.42490	-2.11192	2.12899
C	1.38094	1.70934	-2.25808
F	1.73401	2.97483	-2.46409
F	2.36819	1.01285	-2.79982
F	0.34956	1.50456	-3.06769
C	3.30789	0.16941	-0.13568
F	3.65194	-0.87760	0.60743
F	3.56012	-0.21712	-1.37756
F	4.24350	1.08523	0.12132
C	-0.95214	3.07911	-0.58393
F	-1.59068	3.73250	0.39898
F	-0.37442	4.05442	-1.29559
F	-1.92604	2.61501	-1.37006
C	1.97870	0.58767	2.75232
F	2.37882	-0.66928	2.97312
F	3.07646	1.33345	2.93746
F	1.20299	0.87452	3.80853
C	0.95214	-3.07911	-0.58393
F	1.59068	-3.73250	0.39898
F	0.37442	-4.05442	-1.29559

F	1.92604	-2.61501	-1.37006
C	-1.38094	-1.70934	-2.25808
F	-0.34956	-1.50456	-3.06769
F	-1.73401	-2.97483	-2.46409
F	-2.36819	-1.01285	-2.79982
C	-3.30789	-0.16941	-0.13568
F	-3.56012	0.21712	-1.37756
F	-4.24350	-1.08523	0.12132
F	-3.65194	0.87760	0.60743
C	-1.97870	-0.58767	2.75232
F	-2.37882	0.66928	2.97312
F	-3.07646	-1.33345	2.93746
F	-1.20299	-0.87452	3.80853

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Energy: -1881131.1947677

Fe	0.02860	-0.75775	0.75693
C	0.00511	-1.22281	-1.24180
C	-1.15000	-0.48926	-0.88886
C	1.14520	-0.45180	-0.91413
H	0.01608	-2.21498	-1.66150
C	-0.73099	0.76350	-0.34008
C	0.70135	0.79525	-0.36961
C	-0.21379	-2.50175	1.80988
C	1.09962	-1.99724	1.99412
C	-1.12920	-1.51901	2.27035
H	-0.47282	-3.45108	1.36613
C	0.99632	-0.70307	2.56589
H	2.01605	-2.49163	1.70991
C	-0.38138	-0.40730	2.73624
H	-2.20499	-1.58595	2.22955
H	1.81858	-0.04125	2.78896
H	-0.78842	0.51822	3.11402
C	1.55785	1.98618	-0.01963
F	1.05958	3.09561	-0.57343
F	1.65080	2.20476	1.29558
F	2.79882	1.84013	-0.48282
C	-1.63743	1.88146	0.08639
F	-2.81736	1.41973	0.50739
F	-1.11547	2.59890	1.08384
F	-1.87702	2.71719	-0.92799
C	2.53972	-0.94173	-1.17130
F	3.08265	-0.34539	-2.23527
F	3.36512	-0.75787	-0.13835
F	2.51964	-2.25814	-1.42696
C	-2.54025	-0.97755	-1.18402
F	-3.29244	-1.18233	-0.10046
F	-3.19281	-0.11272	-1.96528
F	-2.48162	-2.14442	-1.83934

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Energy: -2726667.5611211

Fe	0.00000	0.00000	0.40017
C	0.00000	1.62788	1.67046
C	1.14775	1.67522	0.85197
C	-1.14775	1.67522	0.85197

H	0.00000	1.57750	2.74679
C	0.71672	1.73240	-0.50847
C	-0.71672	1.73240	-0.50847
C	0.00000	-1.62788	1.67046
C	-1.14775	-1.67522	0.85197
C	1.14775	-1.67522	0.85197
H	0.00000	-1.57750	2.74679
C	-0.71672	-1.73240	-0.50847
C	0.71672	-1.73240	-0.50847
C	-1.60450	2.04180	-1.69511
F	-1.51375	3.34980	-1.96439
F	-1.27366	1.37878	-2.79263
F	-2.87945	1.77367	-1.43511
C	1.60450	2.04180	-1.69511
F	2.87945	1.77367	-1.43511
F	1.27366	1.37878	-2.79263
F	1.51375	3.34980	-1.96439
C	-2.49803	1.94653	1.47544
F	-2.75605	3.25508	1.36149
F	-3.52118	1.28809	0.96678
F	-2.44654	1.66046	2.78287
C	2.49803	1.94653	1.47544
F	3.52118	1.28809	0.96678
F	2.75605	3.25508	1.36149
F	2.44654	1.66046	2.78287
C	2.49803	-1.94653	1.47544
F	2.75605	-3.25508	1.36149
F	3.52118	-1.28809	0.96678
F	2.44654	-1.66046	2.78287
C	1.60450	-2.04180	-1.69511
F	2.87945	-1.77367	-1.43511
F	1.51375	-3.34980	-1.96439
F	1.27366	-1.37878	-2.79263
C	-1.60450	-2.04180	-1.69511
F	-1.27366	-1.37878	-2.79263
F	-1.51375	-3.34980	-1.96439
F	-2.87945	-1.77367	-1.43511
C	-2.49803	-1.94653	1.47544
F	-3.52118	-1.28809	0.96678
F	-2.75605	-3.25508	1.36149
F	-2.44654	-1.66046	2.78287

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Energy: -2726679.7581607

Fe	0.00000	0.00000	0.26260
C	-2.03387	0.33729	0.18712
C	-1.66213	-0.56051	-0.86164
C	-1.67471	-0.26948	1.42672
C	-1.06827	-1.70711	-0.25339
C	-1.08395	-1.52047	1.14684
H	-0.68907	-2.20814	1.87634
C	1.66213	0.56051	-0.86164
C	1.06827	1.70711	-0.25339
C	2.03387	-0.33729	0.18712
C	1.08395	1.52047	1.14684
C	1.67471	0.26948	1.42672
H	0.68907	2.20814	1.87634

C	-2.85844	1.59368	0.05718
F	-4.15451	1.28641	0.15152
F	-2.57711	2.45795	1.03234
F	-2.67003	2.21292	-1.10034
C	-2.03231	-0.39253	-2.32061
F	-3.33865	-0.12716	-2.41819
F	-1.36911	0.59377	-2.91452
F	-1.80388	-1.50641	-3.00748
C	-0.66051	-3.02725	-0.86045
F	-1.75363	-3.71786	-1.19963
F	0.11115	-2.92603	-1.93039
F	0.00000	-3.75131	0.04955
C	-1.97694	0.19920	2.82855
F	-1.34032	1.31889	3.17306
F	-3.28452	0.41557	2.97130
F	-1.62361	-0.74304	3.70478
C	0.66051	3.02725	-0.86045
F	-0.11115	2.92603	-1.93039
F	0.00000	3.75131	0.04955
F	1.75363	3.71786	-1.19963
C	2.03231	0.39253	-2.32061
F	1.80388	1.50641	-3.00748
F	3.33865	0.12716	-2.41819
F	1.36911	-0.59377	-2.91452
C	2.85844	-1.59368	0.05718
F	2.67003	-2.21292	-1.10034
F	4.15451	-1.28641	0.15152
F	2.57711	-2.45795	1.03234
C	1.97694	-0.19920	2.82855
F	1.34032	-1.31889	3.17306
F	3.28452	-0.41557	2.97130
F	1.62361	0.74304	3.70478

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Energy: -2726675.4915732

Fe	0.00000	0.00000	0.00000
C	1.91618	0.19056	0.71609
C	1.91618	0.19056	-0.71609
C	1.14316	1.31266	1.14726
C	1.14316	1.31266	-1.14726
C	0.66533	1.97629	0.00000
H	0.03889	2.85286	0.00000
C	-1.14316	-1.31266	-1.14726
C	-0.66533	-1.97629	0.00000
C	-1.91618	-0.19056	-0.71609
C	-1.14316	-1.31266	1.14726
H	-0.03889	-2.85286	0.00000
C	-1.91618	-0.19056	0.71609
C	2.71677	-0.73032	1.60585
F	4.02101	-0.49820	1.44704
F	2.42419	-0.53566	2.88704
F	2.49946	-2.01757	1.33569
C	2.71677	-0.73032	-1.60585
F	4.02101	-0.49820	-1.44704
F	2.49946	-2.01757	-1.33569
F	2.42419	-0.53566	-2.88704
C	1.02414	1.95425	-2.51215



F	2.24193	2.30622	-2.93636
F	0.46422	1.20494	-3.44610
F	0.29781	3.07273	-2.41173
C	1.02414	1.95425	2.51215
F	0.46422	1.20494	3.44610
F	2.24193	2.30622	2.93636
F	0.29781	3.07273	2.41173
C	-1.02414	-1.95425	-2.51215
F	-0.46422	-1.20494	-3.44610
F	-0.29781	-3.07273	-2.41173
F	-2.24193	-2.30622	-2.93636
C	-2.71677	0.73032	-1.60585
F	-2.42419	0.53566	-2.88704
F	-4.02101	0.49820	-1.44704
F	-2.49946	2.01757	-1.33569
C	-2.71677	0.73032	1.60585
F	-2.49946	2.01757	1.33569
F	-4.02101	0.49820	1.44704
F	-2.42419	0.53566	2.88704
C	-1.02414	-1.95425	2.51215
F	-0.46422	-1.20494	3.44610
F	-2.24193	-2.30622	2.93636
F	-0.29781	-3.07273	2.41173

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Energy: -1881130.0955657

Fe	0.73917	0.76650	0.00000
C	-0.78246	-0.35997	0.71804
C	-0.78246	-0.35997	-0.71804
C	0.47274	-0.89810	1.14798
C	0.47274	-0.89810	-1.14798
C	1.22586	-1.23081	0.00000
H	2.22330	-1.63717	0.00000
C	1.04494	2.44040	-1.14783
C	0.27778	2.76649	0.00000
C	2.28833	1.91431	-0.70925
H	0.72363	2.53281	-2.17399
C	1.04494	2.44040	1.14783
H	-0.73297	3.14423	0.00000
C	2.28833	1.91431	0.70925
H	3.07724	1.54162	-1.34501
H	0.72363	2.53281	2.17399
H	3.07724	1.54162	1.34501
C	-1.94104	0.01073	1.60423
F	-2.93696	-0.87059	1.46474
F	-1.59112	0.01429	2.89006
F	-2.43989	1.21857	1.33133
C	-1.94104	0.01073	-1.60423
F	-2.93696	-0.87059	-1.46474
F	-2.43989	1.21857	-1.33133
F	-1.59112	0.01429	-2.89006
C	0.98634	-1.16574	-2.53499
F	0.24536	-2.08347	-3.16002
F	1.03292	-0.08273	-3.31357
F	2.23643	-1.64599	-2.46797
C	0.98634	-1.16574	2.53499
F	1.03292	-0.08273	3.31357

F	0.24536	-2.08347	3.16002
F	2.23643	-1.64599	2.46797

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Energy: -2726679.7581607

Fe	0.00000	0.00000	0.26260
C	1.66214	-0.56051	-0.86164
C	2.03387	0.33729	0.18713
C	1.06828	-1.70711	-0.25339
C	1.67471	-0.26949	1.42672
C	1.08394	-1.52047	1.14684
H	0.68906	-2.20815	1.87633
C	-1.06828	1.70711	-0.25339
C	-1.66214	0.56051	-0.86164
C	-1.08394	1.52047	1.14684
C	-2.03387	-0.33729	0.18713
C	-1.67471	0.26949	1.42672
H	-0.68906	2.20815	1.87633
C	2.03234	-0.39253	-2.32061
F	3.33867	-0.12713	-2.41818
F	1.80394	-1.50643	-3.00747
F	1.36912	0.59374	-2.91454
C	2.85844	1.59368	0.05719
F	4.15451	1.28641	0.15152
F	2.67003	2.21292	-1.10033
F	2.57711	2.45795	1.03235
C	1.97693	0.19918	2.82856
F	3.28450	0.41555	2.97132
F	1.34032	1.31888	3.17307
F	1.62359	-0.74306	3.70478
C	0.66051	-3.02725	-0.86047
F	-0.11113	-2.92601	-1.93041
F	1.75364	-3.71786	-1.19965
F	0.00000	-3.75132	0.04952
C	-1.97693	-0.19918	2.82856
F	-3.28450	-0.41555	2.97132
F	-1.34032	-1.31888	3.17307
F	-1.62359	0.74306	3.70478
C	-2.85844	-1.59368	0.05719
F	-2.57711	-2.45795	1.03235
F	-4.15451	-1.28641	0.15152
F	-2.67003	-2.21292	-1.10033
C	-2.03234	0.39253	-2.32061
F	-1.36912	-0.59374	-2.91454
F	-3.33867	0.12713	-2.41818
F	-1.80394	1.50643	-3.00747
C	-0.66051	3.02725	-0.86047
F	0.11113	2.92601	-1.93041
F	-1.75364	3.71786	-1.19965
F	0.00000	3.75132	0.04952

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Energy: -1282013.9427275

Fe	0.00000	0.00000	0.00000
C	-1.16678	1.18055	-1.20107
C	-0.85137	1.87102	-0.00000

C	-1.78998	-0.07180	-1.17429
H	-0.76709	1.56642	-2.13443
C	-1.16678	1.18055	1.20107
C	-1.78998	-0.07179	1.17429
H	-0.76709	1.56643	2.13443
C	-2.67395	-0.40999	0.00000
H	-2.82438	-1.49714	0.00000
C	0.85137	-1.87102	-0.00000
C	1.16678	-1.18055	-1.20107
C	1.16678	-1.18055	1.20106
C	1.78998	0.07180	-1.17429
H	0.76709	-1.56642	-2.13444
C	1.78998	0.07179	1.17429
H	0.76709	-1.56643	2.13443
C	2.67395	0.40999	0.00000
H	2.82438	1.49714	0.00000
C	4.04857	-0.26244	0.00000
H	4.62876	0.02230	0.88249
H	3.94025	-1.34956	0.00000
H	4.62876	0.02230	-0.88249
C	-4.04857	0.26244	0.00000
H	-4.62876	-0.02231	-0.88249
H	-4.62876	-0.02230	0.88249
H	-3.94025	1.34956	-0.00000
C	-0.21025	3.22046	-0.00000
H	0.41427	3.36401	0.88466
H	0.41428	3.36401	-0.88466
H	-0.96372	4.01559	-0.00001
C	-1.98031	-0.84465	2.44237
H	-1.28218	-0.53107	3.22186
H	-2.99587	-0.70940	2.83484
H	-1.84735	-1.91863	2.28148
C	-1.98031	-0.84465	-2.44237
H	-2.99586	-0.70939	-2.83485
H	-1.28216	-0.53108	-3.22185
H	-1.84737	-1.91863	-2.28147
C	1.98031	0.84465	-2.44237
H	2.99587	0.70940	-2.83483
H	1.28218	0.53107	-3.22186
H	1.84735	1.91863	-2.28147
C	1.98031	0.84464	2.44237
H	1.28216	0.53108	3.22186
H	2.99586	0.70938	2.83485
H	1.84737	1.91863	2.28148
C	0.21025	-3.22046	-0.00001
H	-0.41427	-3.36401	-0.88467
H	0.96372	-4.01559	0.00000
H	-0.41428	-3.36401	0.88465