

1a.MeO(-)Me

SCF Energy: -3227.54806789

C	3.939720	1.360195	-1.792636
C	3.314962	1.007941	-0.456492
C	2.072222	1.265628	-0.108951
C	1.084416	1.281364	0.834163
C	0.032410	0.089691	0.756024
O	0.528865	-0.991850	-0.091825
C	1.570777	-1.769180	0.233761
C	1.977874	-2.584374	-0.977893
O	0.799123	2.193882	1.660602
C	-1.224453	0.568690	0.043080
Br	-2.490115	-0.874310	-0.471730
C	-0.314303	-0.382111	2.172716
C	-1.571775	1.832212	-0.161293
C	-2.813604	2.393663	-0.776621
O	2.121030	-1.845353	1.305992
H	4.791172	2.047497	-1.676061
H	4.331583	0.473373	-2.314096
H	3.204482	1.839917	-2.444201
H	4.008960	0.506572	0.237652
H	-0.677882	0.486292	2.720600
H	-3.500969	1.620930	-1.120662
H	-3.344070	3.031455	-0.058677
H	-2.558453	3.033714	-1.629687
H	-0.843058	2.547587	0.218031
H	0.573388	-0.765425	2.669171
H	-1.083311	-1.159121	2.152758
H	1.103011	-2.978943	-1.497896
H	2.508192	-1.924817	-1.669451
H	2.639364	-3.393931	-0.670240

1a.MeOLiMe

SCF Energy: -3235.10733260

C	1.420318	3.748976	-1.317509
C	1.939177	2.334558	-1.187583
C	1.693700	1.511435	-0.201266
C	1.426271	0.734799	0.846070
O	2.140470	0.649399	1.949352
Li	3.319022	-0.489232	1.341389
C	0.248007	-0.289243	0.715603
C	-1.076157	0.351436	0.326920
C	-1.392053	1.627525	0.532898
C	-2.695297	2.326961	0.315274
C	0.075627	-1.123955	1.984810
O	0.543174	-1.240396	-0.413498
C	1.686168	-1.867685	-0.559878
O	2.667281	-1.774267	0.177611
C	1.703353	-2.730725	-1.794039
H	2.248116	4.461072	-1.411212
H	0.803455	3.861372	-2.216811
H	0.822415	4.039607	-0.452249
H	2.574253	2.007957	-2.017936
H	-0.119546	-0.457683	2.824232
H	-3.474015	1.666811	-0.062473
H	-3.045349	2.773925	1.252286
H	-2.567056	3.152150	-0.393670
H	-0.583761	2.245239	0.913199
Br	-2.428184	-0.880559	-0.339873
H	0.977915	-1.687269	2.215557
H	-0.759556	-1.815764	1.869621
H	0.699592	-3.043602	-2.075758
H	2.122668	-2.145324	-2.618155
H	2.348148	-3.593599	-1.630786

1a.tsE.MeO(-)Me

SCF Energy: -3227.51732904

C	2.986808	0.672562	1.127843
C	1.616117	0.084441	1.325969
C	0.427084	0.672221	0.939876
C	-0.699546	-0.330101	0.801995
C	-0.120661	-1.360509	-0.245788
O	-0.901041	-1.929588	-1.018365
Br	0.520236	2.051824	-0.458967
C	-1.045969	-0.991351	2.144264
O	-1.848792	0.307704	0.202736
C	-3.006406	-0.332189	-0.067116
C	-3.626185	0.264886	-1.312636
O	-3.532192	-1.197099	0.590420
C	1.293498	-1.534372	-0.121071
C	2.148804	-1.743697	-1.125060
C	3.593195	-2.150794	-0.982094
H	3.842246	-2.343116	0.065430
H	3.810913	-3.065519	-1.554355
H	4.287325	-1.384558	-1.358445
H	1.807524	-1.626083	-2.165424
H	1.539116	-0.573647	2.181258
H	3.757407	-0.040337	1.430054
H	3.109686	1.581695	1.729928
H	3.159001	0.940633	0.085285
H	-1.832760	-1.726805	2.000479
H	-0.171099	-1.493278	2.556579
H	-1.388023	-0.233395	2.857038
H	-3.497131	1.348377	-1.335773
H	-4.681778	-0.001411	-1.371151
H	-3.094905	-0.151118	-2.172484

1a.tsE.MeOLiMe

SCF Energy: -3235.04755478

C	2.920262	1.003134	1.012035
C	1.617977	0.273164	1.216758
C	0.394100	0.722805	0.736894
C	-0.715047	-0.313156	0.786005
C	0.023379	-1.390309	-0.054460
O	-0.610659	-2.271410	-0.729523
Br	0.301234	2.166230	-0.504935
C	-1.101553	-0.737912	2.205961
O	-1.838286	0.177414	0.032342
C	-3.019871	-0.489263	-0.081798
C	-3.878183	0.215157	-1.106651
O	-3.345917	-1.469276	0.529728
C	1.415411	-1.268682	-0.029573
C	2.365616	-1.587870	-0.958269
C	3.818095	-1.888704	-0.659387
H	3.948844	-2.201053	0.379627
H	4.209267	-2.690055	-1.298136
H	4.468760	-1.021728	-0.827655
H	2.162097	-1.337157	-2.016215
H	1.576731	-0.293181	2.140040
H	3.758657	0.393979	1.352833
H	2.928541	1.934843	1.586267
H	3.081480	1.259523	-0.035331
H	-1.751169	-1.608103	2.179452
H	-0.212599	-0.976965	2.790054
H	-1.625571	0.082889	2.703427
H	-3.883910	1.292816	-0.935996
H	-4.890631	-0.182172	-1.066534
H	-3.461504	0.044940	-2.102870
Li	0.821869	-3.080211	-1.413905

1a.tsE.PhO(-)tBu

SCF Energy: -3537.25577468

C	-1.784652	-1.169358	0.673794
C	-0.461994	-0.585674	1.020892
C	0.782529	-1.038677	0.570340
Br	0.950117	-1.998946	-1.125448
C	1.869510	-0.030812	0.865624
O	3.093795	-0.422956	0.214962
C	4.221975	0.319631	0.234871
O	4.608438	1.035444	1.125542
C	1.302535	1.240335	0.123338
C	-0.126959	1.372299	0.256950
C	-0.862154	2.100795	-0.591874
C	-2.247532	2.703823	-0.393516
C	2.076119	0.191609	2.371709
O	2.084498	1.994712	-0.460309
C	5.006940	0.061440	-1.033391
C	-2.870033	2.313662	0.953823
C	-2.080773	4.241701	-0.439707
C	-3.188213	2.287111	-1.544000
H	-0.389679	2.429258	-1.532232
H	-0.443912	-0.277951	2.058932
H	2.845835	0.941793	2.531244
H	1.154400	0.535886	2.839376
H	2.382854	-0.747346	2.844961
H	4.969504	-0.993018	-1.312113
H	6.037903	0.392357	-0.907989
H	4.534688	0.633772	-1.835942
H	-3.049622	4.749406	-0.347987
H	-1.433762	4.585075	0.372150
H	-1.622876	4.559861	-1.382036
H	-4.156403	2.798784	-1.471140
H	-2.750152	2.538842	-2.515960
H	-3.373223	1.211039	-1.528874
H	-3.827423	2.828721	1.103035
H	-3.051108	1.239880	1.013813
H	-2.202891	2.580496	1.777427
C	-2.605701	-1.639075	1.710167
C	-3.854148	-2.200682	1.454021
C	-4.318727	-2.296970	0.144233
C	-3.521601	-1.821925	-0.896478
C	-2.272785	-1.263368	-0.636852
H	-2.251114	-1.566369	2.734690
H	-4.463983	-2.560263	2.278638
H	-5.292985	-2.731054	-0.063369
H	-3.877303	-1.879803	-1.921609
H	-1.672706	-0.879058	-1.449560

1a.tsZ.MeO(-)Me

SCF Energy: -3227.51982649

C	2.083240	-0.109988	2.331692
C	0.783321	-0.012246	1.585231
C	0.460652	-0.685831	0.432394
Br	1.801007	-1.793676	-0.443137
C	-0.684732	-0.142394	-0.343658
C	-0.918203	-0.685496	-1.742397
O	-1.913536	-0.363387	0.562693
C	-3.195321	-0.339269	0.199559
O	-3.667612	-0.490049	-0.904143
C	-0.472500	1.410654	-0.372352
C	0.597099	1.855883	0.434039
C	1.641922	2.671462	0.354254
C	2.246611	3.195982	-0.932715
C	-4.062672	-0.108283	1.431221
O	-1.266728	2.115615	-1.022514

H	1.591406	2.983894	-1.780173
H	2.399200	4.283972	-0.890804
H	3.230672	2.750687	-1.143566
H	2.154958	3.002656	1.266315
H	-0.062366	0.303695	2.181349
H	2.156326	-1.057327	2.881261
H	2.165602	0.703908	3.056747
H	2.939074	-0.052854	1.656959
H	-1.721675	-0.130083	-2.214317
H	-0.004261	-0.558129	-2.326494
H	-1.172498	-1.747260	-1.724442
H	-3.704745	-0.693934	2.280196
H	-5.099476	-0.358655	1.205412
H	-4.000976	0.947784	1.709452

1a.tsZ.MeOLiMe

SCF Energy: -3235.05254807

C	1.854298	-0.225996	2.429472
C	0.605359	-0.180162	1.596086
C	0.446239	-0.783899	0.362507
C	-0.764260	-0.342620	-0.412311
C	-0.452778	1.168161	-0.442412
O	-0.938331	1.966587	-1.319030
C	-0.994956	-0.926307	-1.794634
O	-1.910173	-0.674123	0.475068
C	-3.171516	-0.247464	0.228772
C	-4.094904	-0.743825	1.321846
O	-3.516662	0.427537	-0.704456
C	0.428238	1.579267	0.559742
C	1.363705	2.558218	0.668398
C	2.366304	2.913403	-0.427745
Li	-0.213480	3.450512	-0.642311
H	2.039577	2.570122	-1.415666
H	2.569763	3.991389	-0.480936
H	3.336914	2.436104	-0.247180
H	1.610938	2.955193	1.654923
Br	1.896694	-1.660669	-0.521244
H	-0.313062	-0.044511	2.153577
H	1.943653	-1.193782	2.934111
H	1.824593	0.546523	3.200713
H	2.753691	-0.080379	1.829924
H	-1.853051	-0.436368	-2.247985
H	-0.126884	-0.760404	-2.432768
H	-1.175005	-2.000951	-1.725295
H	-3.954466	-1.812665	1.491742
H	-5.127103	-0.539029	1.043686
H	-3.866454	-0.232044	2.260640

1a.tsZ.PhO(-)tBu

SCF Energy: -3537.26177442

C	-1.642274	-1.516395	-0.639691
C	-0.236986	-1.074661	-0.484277
C	0.584986	-0.967344	0.631712
C	1.850010	-0.223920	0.315028
C	1.391053	1.044359	-0.484630
O	2.217006	1.933335	-0.759051
Br	-0.149003	-0.756671	2.424430
C	2.770339	0.148963	1.463826
O	2.558153	-1.132215	-0.687484
C	3.830508	-1.051449	-1.088618
C	4.017131	-1.923080	-2.323785
O	4.735586	-0.423850	-0.593203
C	0.026644	1.009619	-0.859795
C	-1.038731	1.797019	-0.942409
C	-1.291701	3.150649	-0.270011

C	-0.257480	3.464255	0.819289
C	-1.224380	4.241120	-1.362810
C	-2.704983	3.146904	0.348900
H	-1.884437	1.486780	-1.569426
H	0.338792	-1.306255	-1.371717
H	3.602230	0.731263	1.082874
H	2.219154	0.749205	2.188651
H	3.148562	-0.742948	1.969350
H	3.513844	-2.884402	-2.205597
H	5.080725	-2.070439	-2.510438
H	3.568734	-1.420499	-3.185649
H	-0.468655	4.438224	1.278646
H	-0.281815	2.706284	1.606968
H	0.752402	3.482818	0.407616
H	-1.454314	5.232684	-0.951239
H	-0.224990	4.273314	-1.803327
H	-1.940311	4.039357	-2.167498
H	-2.950165	4.123555	0.785119
H	-3.467739	2.916716	-0.403289
H	-2.781031	2.393013	1.137338
C	-2.274794	-1.258207	-1.869299
C	-3.572362	-1.686344	-2.124623
C	-4.279855	-2.396908	-1.154795
C	-3.664363	-2.674081	0.063058
C	-2.364033	-2.241546	0.319493
H	-1.727234	-0.704628	-2.625309
H	-4.033309	-1.463525	-3.083219
H	-5.295326	-2.731631	-1.348244
H	-4.197310	-3.237145	0.824915
H	-1.901040	-2.480124	1.266941

1b.MeO(-)Me

SCF Energy: -3227.53932697

C	-3.255714	2.350271	-1.647080
C	-2.202470	2.292580	-0.559444
C	-1.935269	1.256444	0.199485
C	-1.308853	0.570747	1.190914
C	-0.111084	-0.379962	0.707091
C	0.306013	-1.320456	1.841633
O	-1.625829	0.471015	2.411746
O	-0.453891	-1.155591	-0.487276
C	-1.586492	-1.872997	-0.660695
C	-2.534595	-2.137799	0.496519
C	1.083693	0.457582	0.278765
C	1.241709	1.759817	0.490762
C	2.408579	2.642760	0.176624
O	-1.783217	-2.364274	-1.747551
H	-3.780481	1.395408	-1.726108
H	-2.814082	2.576840	-2.628120
H	-4.000113	3.136382	-1.451121
H	-1.641620	3.238764	-0.449340
H	1.091083	-1.999386	1.501857
H	0.668731	-0.731587	2.683488
H	-0.544621	-1.894493	2.202779
H	0.383148	2.246761	0.945458
Br	2.546826	-0.549724	-0.576127
H	2.724544	3.193227	1.070730
H	3.264511	2.089090	-0.208097
H	2.124205	3.395113	-0.568831
H	-2.505236	-1.413193	1.306104
H	-3.541936	-2.186437	0.083064
H	-2.296649	-3.129261	0.899792

1b.MeOLiMe

SCF Energy: -3235.10781731

C	-2.916468	2.279267	-1.997094
C	-1.968033	2.454391	-0.833791
C	-1.669024	1.551872	0.063540
C	-1.280322	0.755464	1.058337
O	-1.883958	0.617718	2.218889
Li	-3.088379	-0.526317	1.671968
C	-0.087868	-0.224963	0.788772
C	1.166124	0.476949	0.289494
C	1.443170	1.764766	0.477941
C	2.685936	2.524253	0.140716
C	0.235355	-1.075555	2.017257
O	-0.453991	-1.165728	-0.326832
C	-1.583490	-1.831445	-0.380676
O	-2.498019	-1.778992	0.441193
C	-1.679266	-2.680025	-1.621038
H	-3.365696	1.283706	-2.001505
H	-2.399748	2.425007	-2.952960
H	-3.725216	3.018310	-1.960677
H	-1.504329	3.445492	-0.770386
H	1.082355	-1.730265	1.809096
H	0.482660	-0.417919	2.849689
H	-0.619472	-1.678857	2.317696
H	0.648412	2.344916	0.938334
Br	2.497873	-0.687978	-0.522860
H	3.080787	3.019534	1.034329
H	3.468690	1.895110	-0.279420
H	2.457669	3.318143	-0.579150
H	-0.694258	-2.978133	-1.976000
H	-2.302038	-3.551892	-1.424391
H	-2.159182	-2.088806	-2.407215

1b.tsE.MeO(-)Me

SCF Energy: -3227.51958790

C	-2.202966	0.444654	1.980149
C	-0.850928	0.370614	1.326208
C	-0.415561	-0.642012	0.503012
Br	-1.704012	-1.947900	-0.152703
C	0.775365	-0.313698	-0.337542
C	1.199713	-1.314654	-1.396207
O	1.887507	-0.083236	0.689166
C	3.197076	-0.004933	0.447741
O	3.800984	-0.336268	-0.545448
C	0.453948	1.087168	-0.970229
C	-0.647145	1.750510	-0.367564
C	-1.690119	2.417163	-0.854634
C	-2.585587	3.352594	-0.078998
C	3.894318	0.581072	1.669930
O	1.181740	1.523840	-1.876055
H	-2.210823	3.499611	0.937713
H	-2.643896	4.340791	-0.559780
H	-3.620779	2.987065	-0.005825
H	-2.339990	1.408494	2.475517
H	-3.006232	0.318180	1.252426
H	-2.316503	-0.342642	2.736156
H	-0.058593	0.892581	1.844914
H	0.357683	-1.508309	-2.062775
H	1.509241	-2.261132	-0.945827
H	2.018411	-0.899024	-1.973691
H	3.492828	0.157770	2.592469
H	4.967142	0.399940	1.602505
H	3.714976	1.659847	1.697000
H	-1.953599	2.317752	-1.918693

1b.tsE.MeOLiMe

SCF Energy: -3235.05397162

C	-2.036808	0.532557	2.085918
C	-0.722561	0.287257	1.397350
C	-0.497276	-0.714788	0.469496
C	0.784248	-0.586362	-0.305131
C	0.495785	0.798164	-0.922686
O	0.982200	1.168337	-2.044843
C	1.125601	-1.639388	-1.342483
O	1.840482	-0.559994	0.735330
C	3.095469	-0.126724	0.471549
C	3.937322	-0.216598	1.726628
O	3.486926	0.277124	-0.591386
C	-0.396183	1.577170	-0.171259
C	-1.316355	2.505292	-0.545430
C	-1.889639	3.584540	0.345906
Li	0.267506	2.795371	-2.069189
H	-1.238789	3.770611	1.203402
H	-2.016341	4.533521	-0.189145
H	-2.880538	3.319034	0.733825
H	-2.011922	1.470266	2.643141
H	-2.866456	0.570476	1.378833
H	-2.248481	-0.271405	2.798650
H	0.155322	0.585697	1.955497
Br	-1.937253	-1.754162	-0.234805
H	0.330878	-1.728194	-2.082719
H	1.266223	-2.609206	-0.861427
H	2.037562	-1.345309	-1.857861
H	3.855116	-1.207624	2.176546
H	4.975566	0.000169	1.482371
H	3.581032	0.506269	2.465387
H	-1.892328	2.324788	-1.472711

1b.tsE.PhO(-)tBu

SCF Energy: -3537.25960585

C	-1.497219	-1.026588	0.821114
C	-0.143112	-0.450451	0.654430
C	0.849228	-0.953830	-0.180903
C	2.024758	-0.084930	-0.373163
C	1.394493	1.287566	-0.763170
O	2.096130	2.152649	-1.303814
Br	0.611576	-2.527117	-1.279760
C	3.093934	-0.516968	-1.356452
O	2.639851	0.070941	1.049684
C	3.803002	0.647708	1.351061
C	3.899152	0.828359	2.862518
O	4.685621	0.993497	0.600548
C	0.019264	1.439096	-0.395798
C	-0.933445	2.140365	-1.009391
C	-2.201682	2.767249	-0.440531
C	-2.359470	2.505358	1.063471
C	-2.096665	4.293538	-0.669682
C	-3.446798	2.250289	-1.192091
H	0.226454	0.016687	1.558272
H	2.634229	-0.712961	-2.326996
H	3.593111	-1.429173	-1.020743
H	3.819839	0.281981	-1.465074
H	3.559709	-0.066952	3.386833
H	4.926834	1.064273	3.138923
H	3.248764	1.653691	3.166538
H	-0.761127	2.426654	-2.059187
H	-2.996539	4.810799	-0.312737
H	-1.230866	4.705032	-0.143818
H	-1.975864	4.525550	-1.733064
H	-4.355557	2.771877	-0.864873
H	-3.343306	2.406641	-2.271465
H	-3.590905	1.181310	-1.021060

H	-3.231443	3.039954	1.460365
H	-2.491915	1.443617	1.272600
H	-1.472725	2.841426	1.607295
C	-1.978163	-1.297795	2.110598
C	-3.244566	-1.840485	2.313769
C	-4.070015	-2.112749	1.224752
C	-3.614328	-1.831399	-0.063264
C	-2.345939	-1.294730	-0.262947
H	-1.341006	-1.082869	2.963967
H	-3.587744	-2.047326	3.323982
H	-5.060860	-2.531569	1.377482
H	-4.254682	-2.025003	-0.919493
H	-2.006948	-1.058848	-1.263417

1b.tsZ.MeO(-)Me

SCF Energy: -3227.51630305

C	3.114894	-0.421099	1.242718
C	1.661642	-0.104773	1.465447
C	0.591935	-0.752098	0.884389
Br	0.929378	-1.837390	-0.714440
C	-0.674214	0.079125	0.893131
C	-1.200835	0.318888	2.314730
O	-1.666679	-0.543306	0.043926
C	-2.925066	-0.084712	-0.113774
O	-3.625858	0.430549	0.722788
C	-0.231196	1.421105	0.180882
C	1.138925	1.726066	0.384829
C	2.059152	2.285583	-0.404066
C	1.927822	2.505219	-1.896670
C	-3.391741	-0.386780	-1.522445
O	-1.100019	2.090192	-0.404203
H	0.909009	2.296589	-2.226346
H	2.163357	3.545034	-2.167131
H	2.616208	1.870975	-2.474612
H	3.387986	-1.369168	1.723717
H	3.348493	-0.506834	0.181284
H	3.742619	0.366138	1.667791
H	1.455319	0.346233	2.427593
H	-0.413617	0.735970	2.942837
H	-1.537087	-0.625174	2.755602
H	-2.034199	1.015801	2.291611
H	-3.039287	-1.364910	-1.854136
H	-4.478961	-0.326983	-1.577991
H	-2.950564	0.366332	-2.180586
H	3.015035	2.620026	0.020644

1b.tsZ.MeOLiMe

SCF Energy: -3235.04655062

C	3.072447	-0.640916	1.169388
C	1.661937	-0.156124	1.373154
C	0.547947	-0.705638	0.755531
Br	0.710437	-2.058206	-0.576815
C	-0.710977	0.139199	0.854868
C	-1.271771	0.254237	2.275005
O	-1.676540	-0.371176	-0.086764
C	-2.951341	0.093415	-0.194954
O	-3.492988	0.867459	0.545307
C	-0.103559	1.444793	0.272561
C	1.285082	1.493587	0.331292
C	2.254323	2.109690	-0.406748
C	2.316253	2.065471	-1.932295
C	-3.596212	-0.536526	-1.408204
O	-0.834686	2.375114	-0.219258
H	1.335829	1.868491	-2.381738
H	2.719154	2.990882	-2.364761

H	2.973820	1.260492	-2.283559
H	3.232957	-1.588631	1.692966
H	3.299152	-0.801012	0.114995
H	3.784260	0.084495	1.568648
H	1.491013	0.281314	2.351046
H	-0.472493	0.491448	2.978380
H	-1.715800	-0.698900	2.574815
H	-2.031665	1.028697	2.326649
H	-3.419738	-1.613120	-1.428154
H	-4.664024	-0.326178	-1.401219
H	-3.150230	-0.116169	-2.313408
H	3.189494	2.400596	0.075737
Li	0.523974	3.478833	-0.591245

1b.tsZ.PhO(-)Me

SCF Energy: -3537.25702717

C	-2.274474	-1.068701	-0.659750
C	-0.827283	-0.982199	-0.975377
C	0.291072	-1.392848	-0.250699
C	1.550893	-0.831877	-0.897029
C	1.243492	0.711097	-1.064442
O	2.194780	1.485598	-1.262559
Br	0.246647	-1.340921	1.712794
C	1.880558	-1.514395	-2.231030
O	2.648754	-0.927688	0.046568
C	3.949985	-0.735976	-0.235474
C	4.678254	-0.379215	1.045770
O	4.502332	-0.854111	-1.300878
C	-0.137772	1.016670	-1.023692
C	-0.925182	1.995137	-0.581953
C	-0.620709	3.119860	0.413585
C	0.639092	2.847910	1.246898
C	-0.421999	4.422781	-0.394626
C	-1.830277	3.292836	1.355185
H	-0.683136	-1.092868	-2.043630
H	0.997330	-1.547307	-2.870252
H	2.210309	-2.542166	-2.055073
H	2.667928	-0.973012	-2.748290
H	4.320218	-0.980425	1.882930
H	5.751675	-0.508452	0.908404
H	4.466590	0.668111	1.277789
H	-1.953877	2.056706	-0.959167
H	0.805061	3.662814	1.963441
H	0.542116	1.914228	1.806812
H	1.517386	2.761048	0.606920
H	-0.257331	5.280934	0.270332
H	0.441994	4.326362	-1.056125
H	-1.298851	4.643246	-1.013674
H	-1.678930	4.134003	2.043123
H	-2.749912	3.484754	0.791067
H	-1.991090	2.390324	1.951424
C	-3.172849	-0.382828	-1.495693
C	-4.548197	-0.465481	-1.309234
C	-5.070096	-1.246787	-0.278346
C	-4.194953	-1.944186	0.550459
C	-2.816039	-1.859610	0.363253
H	-2.770676	0.226375	-2.298922
H	-5.214590	0.082743	-1.969923
H	-6.144034	-1.312460	-0.126442
H	-4.585452	-2.567134	1.351027
H	-2.153378	-2.419098	1.008568

1b.tsZ.int.MeO(-)Me

SCF Energy: -3227.55838481

C	3.002284	-0.736018	1.210499
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C	1.676570	0.019485	1.242652
C	0.391009	-0.854427	1.176778
Br	0.573271	-1.993153	-0.660320
C	-0.660989	0.239622	0.883421
C	-0.986593	0.953800	2.209605
O	-1.855164	-0.337527	0.305350
C	-2.948354	0.365771	-0.017069
O	-3.247693	1.478174	0.349984
C	0.038741	1.158859	-0.137574
C	1.501388	1.109600	0.187566
C	2.471520	1.785407	-0.446320
C	2.321291	2.721389	-1.611770
C	-3.818743	-0.474484	-0.932107
O	-0.494402	1.674531	-1.104439
H	1.277170	2.856228	-1.883042
H	2.768938	3.699291	-1.387568
H	2.854515	2.333483	-2.490236
H	2.963072	-1.560436	1.928234
H	3.187847	-1.159772	0.222571
H	3.845645	-0.087764	1.478391
H	1.617424	0.478735	2.241417
H	-0.120172	1.498236	2.587827
H	-1.257704	0.194369	2.949126
H	-1.804657	1.656744	2.071917
H	-3.875887	-1.504595	-0.576718
H	-4.812811	-0.033619	-1.004929
H	-3.355414	-0.498596	-1.921999
H	3.496888	1.632595	-0.105020

1b.tsZ.int.MeOLiMe

SCF Energy: -3235.08851701

C	1.612798	1.027885	0.358257
C	1.725755	-0.213794	1.256332
C	0.417520	-0.949139	0.943397
C	-0.602622	0.188520	0.885554
C	0.200101	1.211137	0.061884
C	3.010827	-1.023483	1.118689
Br	0.503696	-1.955627	-0.799211
C	-1.004734	0.663596	2.283889
O	-1.815294	-0.331741	0.226174
C	-2.913327	0.305783	-0.075306
C	-4.018602	-0.641726	-0.456236
O	-0.284739	1.944919	-0.842603
C	2.654165	1.666035	-0.222339
C	2.645086	2.630927	-1.368539
O	-3.080389	1.530866	-0.053670
H	1.639507	2.888802	-1.688845
H	3.184388	3.548142	-1.100298
H	3.178364	2.208290	-2.229565
H	2.921043	-1.950641	1.690167
H	3.209661	-1.284915	0.078801
H	3.870838	-0.471264	1.508803
H	1.654581	0.076554	2.314093
H	-0.148802	1.092444	2.804420
H	-1.357153	-0.196088	2.860003
H	-1.785011	1.427836	2.239213
H	-4.504835	-0.993978	0.458669
H	-4.760303	-0.130496	-1.067664
H	-3.616445	-1.512814	-0.971969
H	3.645494	1.425483	0.158689
Li	-1.893035	2.657596	-0.811612

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SCF Energy: -3038.92945814

C	-4.870626	-0.534419	-1.015328
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C	-3.565962	0.239970	-0.965876
C	-2.699888	0.219740	0.020574
C	-1.601028	0.565610	0.740878
O	-1.495917	1.521385	1.568349
C	-0.342583	-0.423257	0.622551
C	0.813904	0.370310	0.032110
Br	2.462841	-0.717182	-0.374585
C	0.008610	-0.861119	2.058920
C	-0.657805	-1.656103	-0.240691
C	0.892981	1.678075	-0.176837
C	2.010474	2.506300	-0.728520
H	-5.006132	-1.114446	-0.098403
H	-4.905658	-1.230624	-1.867467
H	-5.738792	0.133089	-1.126859
H	-3.396564	0.856866	-1.866729
H	0.942653	-1.430769	2.098020
H	0.088550	0.025307	2.688345
H	-0.796419	-1.487788	2.456104
H	0.005697	2.211034	0.163563
H	2.400898	3.186597	0.039233
H	2.839940	1.904452	-1.099859
H	1.648725	3.139409	-1.547604
H	0.171373	-2.368818	-0.235045
H	-1.549669	-2.149464	0.148954
H	-0.865163	-1.375174	-1.275236

3.tsE

SCF Energy: -3038.90254012

C	-1.127643	-1.806031	1.558908
C	-0.489082	-0.451135	1.412750
C	0.702815	-0.174690	0.774659
C	0.862743	1.280380	0.367169
C	-0.482733	1.615784	-0.385378
O	-0.534642	2.621419	-1.111414
Br	1.297394	-1.538444	-0.549616
C	2.057725	1.606584	-0.533913
C	0.961975	2.190209	1.614990
C	-1.568339	0.744198	-0.058847
C	-2.482653	0.214142	-0.872221
C	-3.753422	-0.478461	-0.444649
H	-3.889499	-0.409392	0.638459
H	-4.636606	-0.027613	-0.923636
H	-3.769950	-1.544304	-0.718284
H	-2.107275	-1.720593	2.035398
H	-1.260077	-2.290406	0.591012
H	-0.504989	-2.465417	2.177106
H	-0.726544	0.234860	2.216579
H	2.054901	1.005000	-1.443045
H	3.004842	1.431167	-0.011795
H	1.997403	2.655015	-0.831267
H	-2.347841	0.275520	-1.963929
H	0.981871	3.235659	1.293034
H	0.108351	2.073192	2.284867
H	1.875435	1.975618	2.182562

3.tsZ

SCF Energy: -3038.90191091

C	-0.812209	-1.753953	2.003458
C	-0.260991	-0.400930	1.649229
C	-0.728397	0.456460	0.677931
C	0.287230	1.487265	0.215029
C	1.592065	0.643975	-0.076064
O	2.519748	1.178081	-0.714407
Br	-1.911491	-0.347975	-0.703312
C	0.602495	2.497058	1.344045

C	-0.084952	2.295758	-1.032155
C	1.607941	-0.635640	0.540855
C	1.979596	-1.849217	0.132561
C	2.262847	-2.249361	-1.301924
H	2.325723	-1.365902	-1.940070
H	3.215840	-2.792694	-1.385500
H	1.488763	-2.914932	-1.712549
H	-1.789973	-1.666742	2.495017
H	-0.938775	-2.376201	1.117049
H	-0.134685	-2.271041	2.688264
H	0.247679	0.092463	2.468984
H	0.916734	2.004200	2.266023
H	-0.272864	3.118014	1.569592
H	1.424419	3.143958	1.023453
H	2.089641	-2.666325	0.858904
H	0.767229	2.918275	-1.310177
H	-0.313528	1.649048	-1.879906
H	-0.955758	2.933876	-0.845684