

Electronic Supplementary Information for

**A Crossed Molecular Beam and Computational Study on the Unusual
Reactivity of Banana Bonds of Cyclopropane ($c\text{-C}_3\text{H}_6$; X^1A_1') through
Insertion by Ground State Carbon Atoms ($C(^3P_j)$)**

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Optimized Cartesian Coordinates (Å) and Calculated Vibrational Frequencies (cm⁻¹) for All Structures Involved in the C(³P_j) + c-C₃H₆ (X¹A₁') Reaction

Reactants:

Cyclopropane

Coordinates:

6	0	-0.292545	-0.819713	0.000041
6	0	0.856461	0.156731	-0.000037
6	0	-0.563918	0.663172	-0.000019
1	0	-0.490305	-1.373799	-0.909834
1	0	-0.489730	-1.375015	0.909214
1	0	1.435693	0.262143	-0.909605
1	0	1.435263	0.263055	0.909732
1	0	-0.945384	1.110721	0.910006
1	0	-0.945526	1.111758	-0.909422

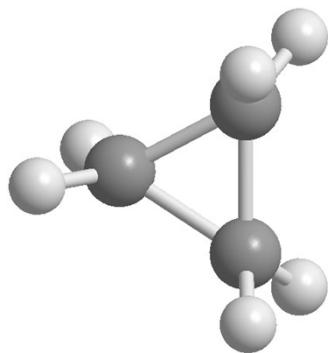
Frequencies:

743.2604	743.6262	861.4755
882.6601	883.2702	1052.3466
1054.0257	1087.3420	1151.3085
1211.2649	1211.4422	1214.5293
1473.0602	1474.0262	1521.1794
3120.9397	3121.2200	3129.0725
3195.8900	3196.0710	3217.8073

T1 diagnostic:

0.00821764

Structure:



Intermediates:

Reactant complex

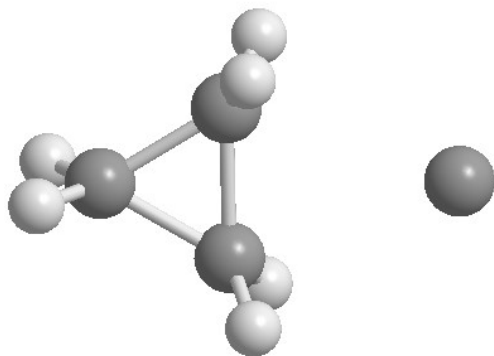
Coordinates:

6	0	0.121566	-0.776701	0.000035
6	0	0.121774	0.776806	-0.000022
6	0	1.408709	-0.000098	0.000084
1	0	-0.162118	-1.284194	0.911628
1	0	-0.161802	-1.284103	-0.911712
1	0	-0.161655	1.284242	0.911690
1	0	-0.161720	1.284352	-0.911644
1	0	1.991952	-0.000306	-0.912757
1	0	1.991923	-0.000080	0.912940
6	0	-2.208147	0.000007	-0.000122

Frequencies:

120.3177	159.8219	170.5675
771.8008	774.6836	801.3204
828.2399	863.3519	1012.2711
1062.8980	1088.9440	1150.4834
1190.9971	1199.2952	1207.0797
1468.6238	1469.5554	1508.2403
3124.5098	3146.0052	3148.5834
3207.2063	3232.7346	3244.8123

Structure:



ii

Coordinates:

6	0	-1.135633	-0.134522	0.000033
6	0	1.135566	-0.134810	0.000016
6	0	0.000339	0.949133	-0.000077
1	0	-1.778616	-0.134220	-0.887670
1	0	-1.778496	-0.134131	0.887826
1	0	1.778576	-0.135219	-0.887647
1	0	1.778481	-0.135130	0.887751

1	0	0.000334	1.575286	0.893042
1	0	0.000320	1.575070	-0.893346
6	0	-0.000372	-1.115078	0.000036

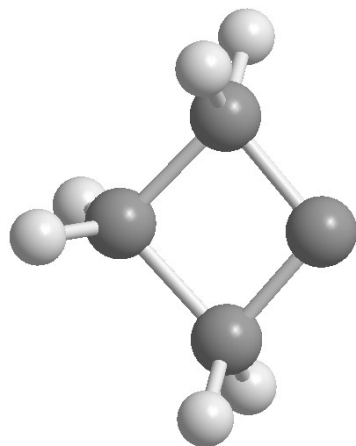
Frequencies:

154.7194	749.7625	751.2879
798.4514	853.6522	886.1906
980.1896	1023.3018	1027.9601
1067.4665	1153.2027	1163.7717
1213.3053	1242.5178	1246.9778
1463.1796	1466.9666	1491.7351
2999.5025	3004.0389	3026.3323
3030.1208	3055.0511	3120.8010

T1 diagnostic:

0.01571603

Structure:



i2

Coordinates:

6	0	0.757397	-0.673837	0.202509
6	0	-0.748655	0.832585	0.063437
6	0	-0.751965	-0.679767	-0.202596
6	0	0.742117	0.838418	-0.063331
1	0	1.451855	-1.263304	-0.402626
1	0	0.896220	-0.924717	1.258107
1	0	-1.262745	1.240322	0.933427
1	0	-1.441439	-1.274650	0.403225
1	0	-0.889410	-0.931809	-1.258219
1	0	1.252158	1.249764	-0.934027

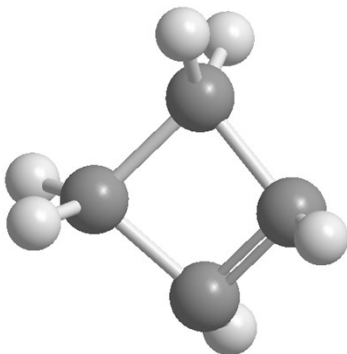
Frequencies:

267.2480	485.6323	695.6035
705.9677	803.4760	868.4657
894.6120	966.5724	1016.5772
1024.3811	1078.2123	1169.6228
1195.1890	1219.0492	1232.6309
1258.9988	1459.7422	1471.9237
3023.1620	3027.5014	3066.6974
3080.5135	3102.1041	3104.9933

T1 diagnostic:

0.01487349

Structure:



i3

Coordinates:

6	0	-0.679784	0.626787	-0.000066
6	0	1.515623	-0.555195	0.000103
6	0	-1.515742	-0.555131	0.000054
6	0	0.679973	0.626722	-0.000004
1	0	-1.188642	1.585883	-0.000138
1	0	2.593346	-0.464654	-0.000087
1	0	1.095611	-1.550970	-0.000067
1	0	-2.593432	-0.464140	0.000513
1	0	-1.096093	-1.551052	-0.000723
1	0	1.188796	1.585840	-0.000014

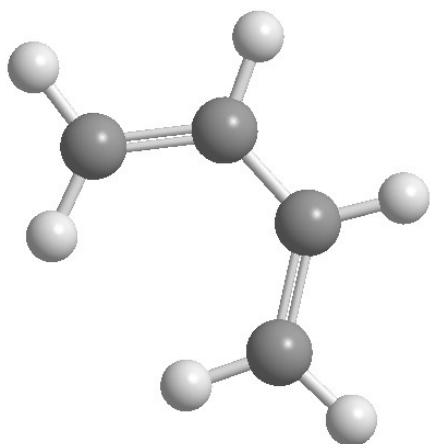
Frequencies:

168.3509	206.3483	284.2457
391.7289	543.5285	565.7682
589.7897	729.9949	898.3376
920.4080	961.9323	1056.7372
1122.7311	1283.0663	1401.7575
1460.2252	1488.0908	1643.7669
3145.4405	3156.6829	3162.5328
3171.2036	3258.0485	3265.2240

T1 diagnostic:

0.01647146

Structure:



i4

Coordinates:

6	0	-0.726774	-0.657507	0.013541
6	0	1.691611	0.354336	0.043671
6	0	-1.470316	0.646199	-0.004805
6	0	0.741512	-0.538064	-0.066454
1	0	-1.070073	-1.286577	-0.828910
1	0	-0.995050	-1.233659	0.909384
1	0	2.740972	0.104517	-0.089324
1	0	1.473799	1.399255	0.284972
1	0	-2.493857	0.687722	0.347332
1	0	-1.071989	1.498954	-0.539178

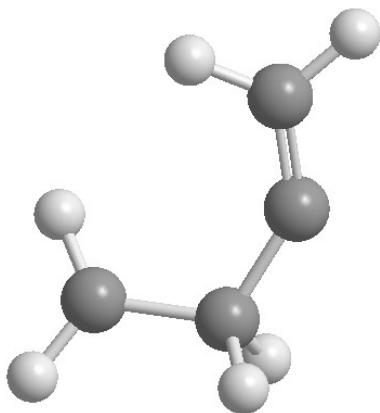
Frequencies:

138.0274	197.3221	225.3468
448.2786	492.7733	523.2373
817.0737	879.4806	883.4213
996.0613	1013.5853	1072.5849
1193.9984	1323.7965	1408.6433
1441.3110	1446.7747	1740.5131
2905.5394	3004.6977	3033.1366
3138.3195	3144.5933	3247.8631

T1 diagnostic:

0.01480727

Structure:



i5

Coordinates:

6	0	-0.635819	0.559039	0.001364
6	0	1.875398	-0.164985	0.107114
6	0	-1.750580	-0.435806	0.060860
6	0	0.665267	-0.026961	-0.370103
1	0	-0.891138	1.363103	-0.701872
1	0	-0.519968	1.071428	0.983766
1	0	2.662639	-0.680614	-0.436272
1	0	2.152531	0.239048	1.086535
1	0	-2.778511	-0.111546	-0.039053
1	0	-1.551151	-1.469141	0.311480

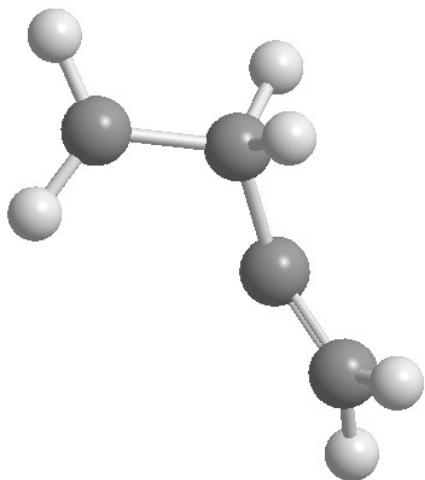
Frequencies:

96.9967	121.6547	285.1086
374.4375	459.3984	564.8148
805.5226	861.6535	888.5015
1007.8939	1051.1936	1087.4130
1190.8337	1329.8185	1413.4362
1429.8784	1454.7300	1740.2069
2799.7188	3002.8465	3025.3230

T1 diagnostic:

0.01456725

Structure:



i6

Coordinates:

6	0	-0.548571	0.401539	-0.000158
6	0	1.888360	0.079023	0.000123
6	0	-1.920245	-0.099060	0.000065
6	0	0.592287	-0.395553	-0.000134
1	0	-0.403750	1.484915	-0.000018
1	0	2.735284	-0.594793	-0.000127
1	0	2.096161	1.143470	0.000269
1	0	-2.472226	-0.237462	-0.925689
1	0	-2.470950	-0.238069	0.926485
1	0	0.444496	-1.473754	-0.000297

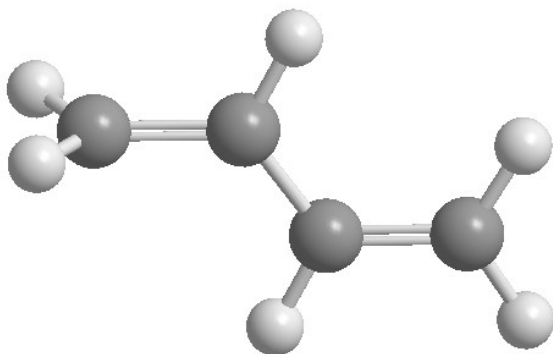
Frequencies:

203.7530	278.8202	356.4008
442.0560	543.2599	563.8000
708.8276	798.3152	930.9256
976.5866	1008.8180	1100.8561
1199.3087	1277.3232	1309.5464
1438.4449	1470.7657	1513.3653
3062.8041	3097.6452	3129.2809
3138.3511	3182.8332	3234.2547

T1 diagnostic:

0.01972976

Structure:



i7

Coordinates:

6	0	0.742863	0.569973	-0.000018
6	0	1.485891	-0.592873	0.000067
6	0	-0.648589	0.648341	-0.000125
6	0	-1.558335	-0.494228	0.000042
1	0	1.282163	1.514597	0.000021
1	0	2.567998	-0.566138	0.000344
1	0	1.006618	-1.564999	-0.000043
1	0	-1.094121	1.644264	-0.000259
1	0	-1.946012	-0.908340	-0.926391
1	0	-1.947618	-0.906656	0.926531

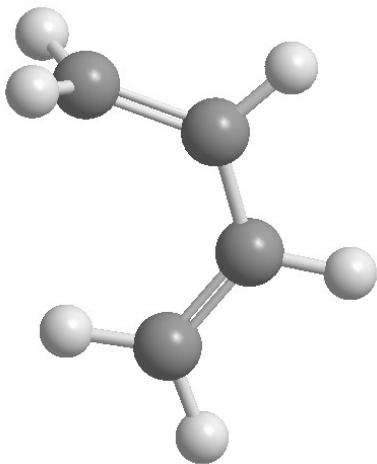
Frequencies:

245.7617	257.1234	339.4485
437.6220	551.8047	626.6445
687.0180	805.3900	965.0202
972.2634	998.3817	1040.5177
1167.1290	1236.5549	1407.8162
1430.7601	1443.3295	1518.0311
3081.8604	3102.1053	3134.7089
3142.8512	3188.6598	3236.5904

T1 diagnostic:

0.02004632

Structure:



i8

Coordinates:

6	0	0.594597	-0.671149	-0.000037
6	0	-1.758533	0.370460	0.000014
6	0	1.565077	0.481639	-0.000016
6	0	-0.760885	-0.543851	-0.000013
1	0	1.026548	-1.669861	0.000272
1	0	-2.803116	0.077959	-0.000132
1	0	-1.555980	1.443654	0.000174
1	0	1.055091	1.446150	-0.000496
1	0	2.217633	0.440058	0.880288
1	0	2.218290	0.439450	-0.879794

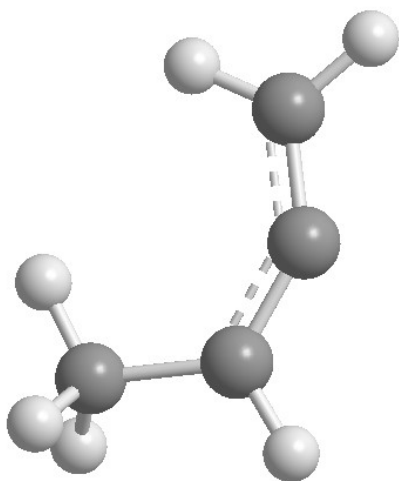
Frequencies:

98.8745	190.6897	399.0249
490.0253	516.4281	745.4183
775.4893	868.5252	993.7648
1012.4584	1071.6454	1126.0162
1346.5632	1388.5232	1436.5188
1466.7698	1475.5178	1501.2462
3002.8566	3043.7380	3054.0572
3104.1701	3124.5163	3172.6023

T1 diagnostic:

0.01964519

Structure:



i9

Coordinates:

6	0	-0.742863	0.569973	0.000018
6	0	-1.485891	-0.592873	-0.000067
6	0	0.648589	0.648341	0.000125
1	0	-1.282163	1.514597	-0.000021
1	0	-2.567998	-0.566138	-0.000344
1	0	-1.006618	-1.564999	0.000043
1	0	1.094121	1.644264	0.000259
6	0	1.558335	-0.494228	-0.000042
1	0	1.946012	-0.908340	0.926391
1	0	1.947618	-0.906656	-0.926531

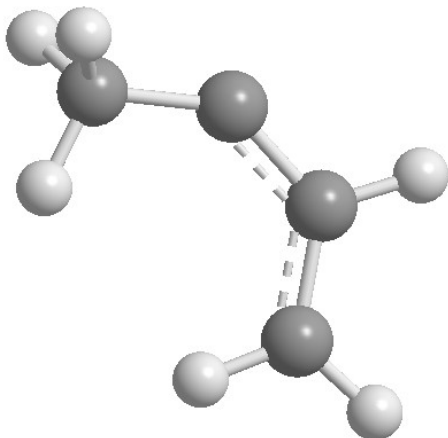
Frequencies:

245.7616	257.1238	339.4487
437.6226	551.8072	626.6449
687.0192	805.3911	965.0207
972.2637	998.3823	1040.5184
1167.1297	1236.5561	1407.8166
1430.7604	1443.3298	1518.0322
3081.8579	3102.1051	3134.7072
3142.8506	3188.6594	3236.5873

T1 diagnostic:

0.02004636

Structure:



i10

Coordinates:

6	0	0.500988	0.428487	0.000057
6	0	1.862761	-0.196578	-0.000035
6	0	-2.016921	-0.065509	-0.000072
6	0	-0.676402	-0.251976	0.000082
1	0	0.461308	1.523117	0.000007
1	0	1.800152	-1.285534	-0.000121
1	0	2.439704	0.116957	-0.878792
1	0	2.439800	0.116772	0.878721
1	0	-2.714731	-0.895592	0.000047
1	0	-2.448789	0.937735	-0.000047

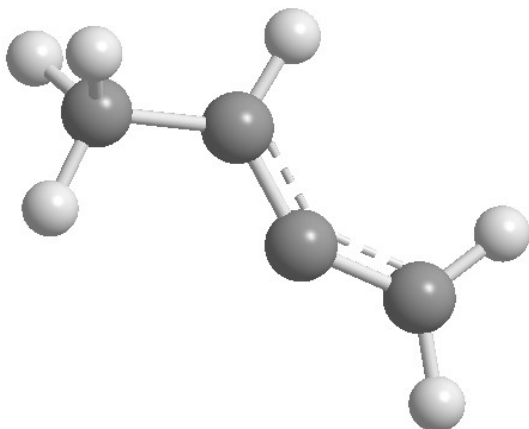
Frequencies:

127.9561	214.7459	254.6001
461.4173	564.6486	741.6705
780.8469	858.4639	962.0456
1020.4105	1112.8848	1175.0824
1308.1226	1400.3649	1438.5166
1469.3422	1476.6966	1509.0279
2999.3720	3031.7269	3036.3035
3056.2151	3111.1109	3178.3492

T1 diagnostic:

0.01852985

Structure:



i11

Coordinates:

6	0	-0.836625	0.255270	0.360023
6	0	1.558853	-0.475986	0.090347
6	0	0.551483	0.565120	-0.250793
6	0	-1.748429	-0.629967	-0.304016
1	0	-1.553479	1.100788	0.146547
1	0	-0.802346	0.177745	1.459687
1	0	2.615158	-0.239609	0.106876
1	0	1.269097	-1.517028	0.170619
1	0	0.894456	1.549847	0.086041
1	0	0.425426	0.641645	-1.343142

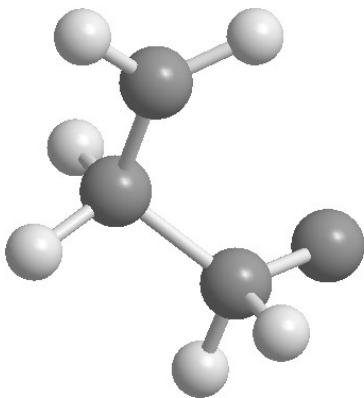
Frequencies:

120.6244	141.5413	306.2579
403.8504	457.8824	510.5186
777.2166	891.4030	949.7818
1020.4356	1107.5184	1116.1069
1203.5403	1301.3488	1324.6459
1358.1834	1460.2619	1464.1916
2786.2993	2947.8064	2952.3400
3033.3894	3137.6450	3242.0196

T1 diagnostic:

0.01447482

Structure:



i12

Coordinates:

6	0	-0.740433	-0.034098	0.394356
6	0	1.689391	-0.414802	-0.085092
6	0	0.570863	0.574294	-0.067239
6	0	-1.835953	-0.115071	-0.314721
1	0	-0.729575	-0.450234	1.408830
1	0	2.696162	-0.128668	0.192171
1	0	1.528303	-1.409178	-0.483112
1	0	0.826604	1.413393	0.590773
1	0	0.416358	1.006614	-1.067588
1	0	-2.841061	-0.493864	-0.204904

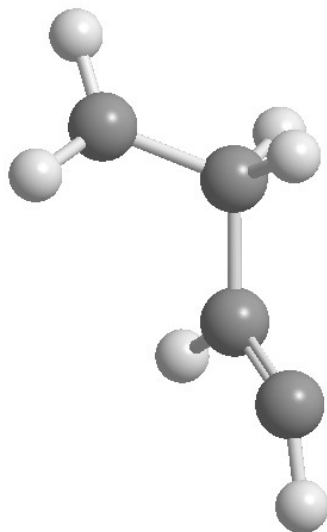
Frequencies:

108.1274	133.2524	340.7344
406.4486	497.1097	656.3131
773.2276	786.8353	832.1083
1005.0903	1047.4641	1095.3257
1196.7742	1274.7811	1325.6574
1456.2277	1459.4269	1671.2303
2964.6767	3016.4060	3029.8599
3137.4660	3239.7675	3243.7285

T1 diagnostic:

0.01466137

Structure:



i13

Coordinates:

6	0	0.489017	-0.329934	-0.000026
6	0	-1.956098	-0.173839	0.000014
6	0	1.922966	-0.014242	-0.000005
6	0	-0.687774	0.367905	-0.000016
1	0	-2.104823	-1.247069	0.000048
1	0	-2.831826	0.462436	0.000010
1	0	2.425098	-0.424093	-0.882964
1	0	2.079458	1.073992	0.000713
1	0	2.425244	-0.425078	0.882435
1	0	-0.601821	1.460473	-0.000047

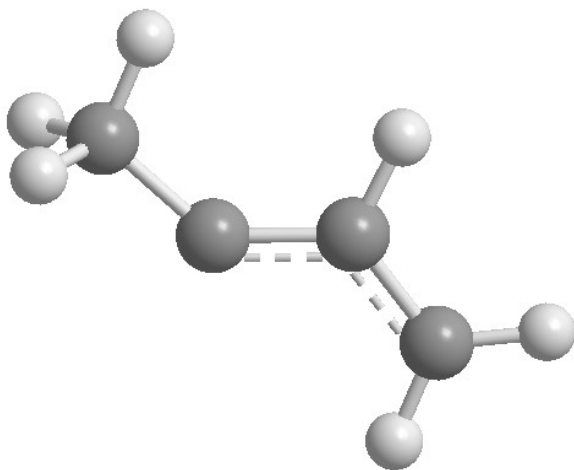
Frequencies:

100.0129	195.1485	233.3903
481.1917	557.5548	776.7579
852.3712	901.0585	998.9329
1017.5082	1106.3804	1225.3107
1326.5475	1405.7252	1450.5660
1475.3298	1492.9900	1511.2848
3001.4904	3062.9686	3075.6269
3091.1709	3163.8044	3264.6098

T1 diagnostic:

0.02381529

Structure:



i14

Coordinates:

6	0	-0.745460	-0.207711	0.423636
6	0	1.684612	-0.332245	-0.206331
6	0	0.527444	0.561589	0.094411
6	0	-1.866434	-0.137558	-0.246179
1	0	-0.673667	-0.873124	1.285568
1	0	2.700445	-0.004224	-0.022823
1	0	1.533254	-1.264325	-0.736512
1	0	0.772799	1.216256	0.940633
1	0	0.326665	1.235905	-0.753702
1	0	-2.260460	0.385064	-1.106383

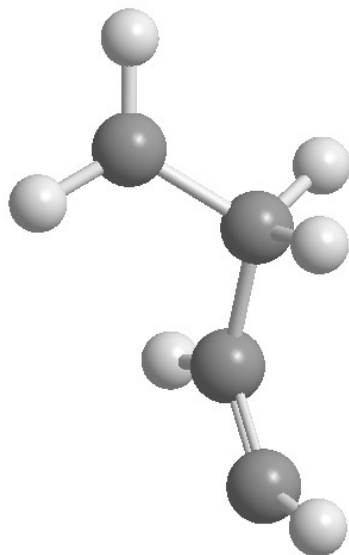
Frequencies:

112.0514	169.2275	333.7360
388.9947	489.4075	684.4974
784.4930	820.5748	875.3474
988.0600	1045.6902	1087.2845
1186.3141	1276.9693	1321.6526
1455.3869	1456.0634	1663.4434
2949.3581	3014.1924	3087.6890
3136.8226	3227.1618	3242.8998

T1 diagnostic:

0.01453430

Structure:



i15

Coordinates:

6	0	0.344205	0.059164	0.455618
6	0	-0.812179	-0.784722	-0.112804
6	0	-0.889882	0.707790	-0.164955
1	0	0.372247	0.106055	1.545729
1	0	2.465268	-0.536512	-0.292298
1	0	-1.429386	-1.314426	0.603588
1	0	-0.616853	-1.317893	-1.034669
1	0	-0.752974	1.190154	-1.124803
1	0	-1.570282	1.216413	0.507316
6	0	1.613186	0.127136	-0.212003

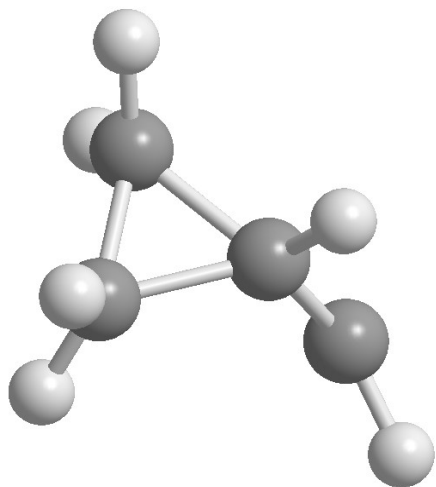
Frequencies:

193.9723	343.5978	423.9278
756.5767	777.4744	799.6094
837.2346	921.4706	1000.6175
1041.2135	1067.6107	1093.9848
1154.4214	1199.0794	1211.7161
1351.6445	1462.8314	1492.5153
3054.6913	3122.9207	3128.6157
3195.9954	3206.3428	3221.6824

T1 diagnostic:

0.01516319

Structure:



i16

Coordinates:

6	0	-0.281018	-0.000107	-0.359526
6	0	0.927256	-0.760147	0.063978
6	0	0.927087	0.760228	0.064084
6	0	-1.647340	0.000279	0.052993
1	0	1.515475	-1.261957	-0.700277
1	0	0.892745	-1.287903	1.014941
1	0	0.892736	1.288059	1.014978
1	0	1.515025	1.261907	-0.700486
1	0	-2.456693	-0.000558	-0.667380
1	0	-1.915200	-0.001065	1.109052

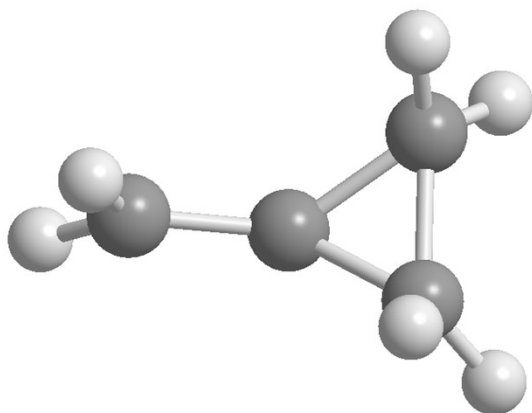
Frequencies:

245.9592	306.4880	425.7861
501.0084	732.3771	761.9401
849.2908	884.6620	903.0394
994.2101	1023.0817	1053.5668
1118.3176	1163.7086	1362.3537
1437.7013	1451.0236	1475.2810
3075.1754	3075.8282	3084.2663
3144.0489	3159.1950	3197.3802

T1 diagnostic:

0.01506344

Structure:



i17

Coordinates:

6	0	-0.745506	-0.207820	0.423538
6	0	0.527472	0.561484	0.094640
6	0	1.684659	-0.332185	-0.206420
6	0	-1.866426	-0.137497	-0.246333
1	0	-0.673839	-0.873549	1.285244
1	0	0.772880	1.215805	0.941133
1	0	0.326771	1.236231	-0.753161
1	0	1.533327	-1.264566	-0.736063
1	0	2.700465	-0.003606	-0.023729
1	0	-2.260793	0.385786	-1.105973

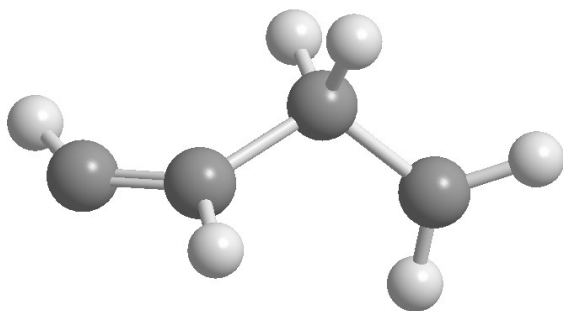
Frequencies:

112.0136	169.3797	333.7174
388.9881	489.2954	684.5030
784.5418	820.4674	875.3492
987.9791	1045.7394	1087.2922
1186.2727	1276.9810	1321.7154
1455.3785	1456.0359	1663.4743
2949.2675	3014.0202	3087.6180
3136.8179	3227.2157	3242.9167

T1 diagnostic:

0.01453461

Structure:

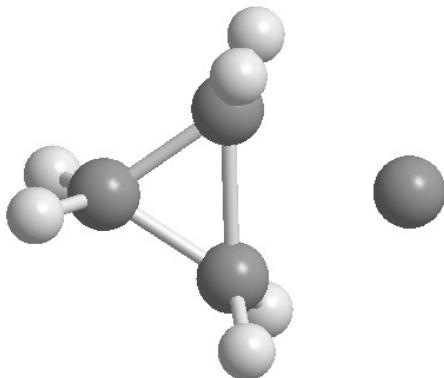


Barriers:**ts_complex_i1****Coordinates:**

6	0	0.009580	-0.846282	-0.000006
6	0	0.009580	0.846282	0.000007
6	0	1.256193	-0.000000	0.000068
1	0	-0.198566	-1.379510	0.917128
1	0	-0.198466	-1.379496	-0.917172
1	0	-0.198566	1.379496	0.917151
1	0	-0.198466	1.379511	-0.917150
1	0	1.846637	0.000007	-0.909508
1	0	1.846538	-0.000008	0.909708
6	0	-1.758538	0.000000	-0.000096

Frequencies:

-417.1704	185.2722	314.4093
588.9963	767.1437	807.2670
817.3425	892.2756	1003.8132
1026.4855	1050.2961	1110.3838
1112.8995	1199.0213	1222.1161
1434.9228	1446.9928	1500.7929
3111.8124	3134.3231	3140.5832
3190.8264	3243.8521	3248.0501

Structure:**ts_i1_i2****Coordinates:**

6	0	1.105049	-0.150536	-0.017060
6	0	-1.145732	-0.049252	0.020705
6	0	0.001499	0.973716	0.027611
6	0	-0.072850	-1.101660	-0.108154
1	0	1.749839	-0.227351	0.861833
1	0	1.730168	-0.110568	-0.912584
1	0	-0.746906	-0.897671	0.958454
1	0	-2.119767	0.003614	-0.452198

1	0	0.009349	1.564442	-0.891356
1	0	0.049523	1.633926	0.897240

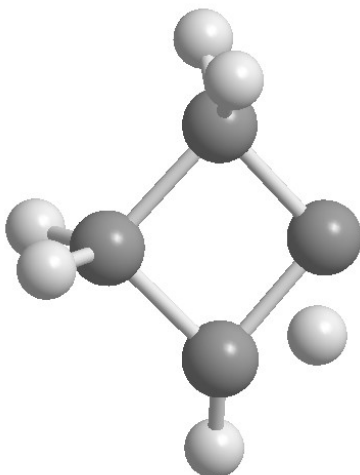
Frequencies:

-1932.7468	235.9380	621.8856
776.6475	804.8881	841.9676
908.6077	970.7375	1025.8041
1029.2037	1079.2319	1111.6347
1182.6969	1205.5763	1235.5206
1242.0548	1465.4344	1499.2858
2181.0216	3026.2659	3037.2446
3066.0739	3092.7262	3150.3567

T1 diagnostic:

0.01471028

Structure:



ts_i1_i4

Coordinates:

6	0	0.916903	-0.587148	-0.084125
6	0	-1.310483	0.212970	-0.063161
6	0	0.724281	0.926189	0.090309
6	0	-0.522401	-0.900511	0.155542
1	0	1.606538	-1.062607	0.623214
1	0	1.262895	-0.853459	-1.092080
1	0	-2.173624	0.442090	0.566164
1	0	-1.386385	0.650376	-1.061972
1	0	1.000829	1.595314	-0.720942
1	0	0.839949	1.319285	1.094222

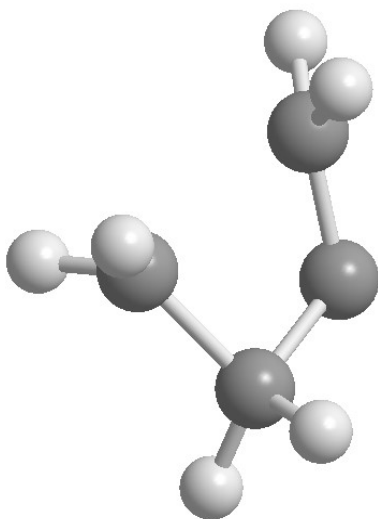
Frequencies:

-823.8808	224.6857	476.5379
655.7744	680.8013	785.7953
825.4340	921.2637	939.5470
962.3380	1004.8745	1086.0648
1189.7351	1244.0868	1310.2296
1430.8334	1465.6020	1488.9582
2989.7164	3016.7609	3029.7024
3093.6373	3096.8278	3212.8059

T1 diagnostic:

0.01568963

Structure:



ts_i1_i11

Coordinates:

6	0	-0.948999	-0.369711	-0.241261
6	0	1.363620	0.475614	-0.129665
6	0	0.496517	-0.690607	0.216079
6	0	-1.262205	0.968685	0.272241
1	0	-1.691573	-1.053414	0.209236
1	0	-1.046813	-0.465996	-1.336489
1	0	2.148959	0.813924	0.533820
1	0	1.339941	0.886810	-1.132673
1	0	0.845447	-1.616580	-0.271420
1	0	0.510438	-0.868627	1.293165

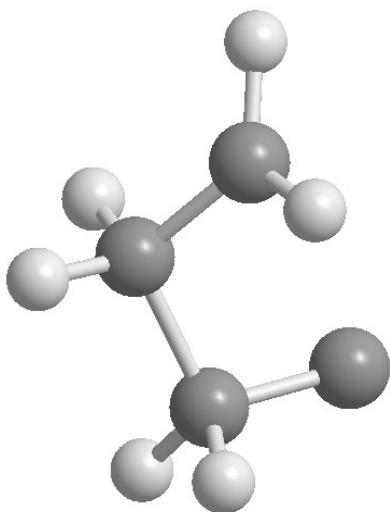
Frequencies:

-304.2214	188.6500	263.8375
377.7998	580.2842	689.5339
819.5357	883.5903	894.6969
1038.0627	1063.8772	1088.9927
1196.3852	1303.8444	1336.9266
1395.6675	1460.1231	1469.8046
2919.2943	2935.0695	2962.3985
3081.2812	3137.1230	3242.9527

T1 diagnostic:

0.01631425

Structure:



ts_i11_i12**Coordinates:**

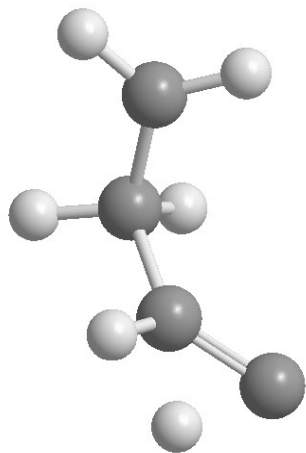
6	0	-0.753814	0.078277	0.399752
6	0	1.610888	-0.428950	0.012389
6	0	0.539627	0.582698	-0.239350
6	0	-1.820447	-0.474638	-0.273778
1	0	-1.892916	0.745769	0.011997
1	0	-0.730061	0.073397	1.504407
1	0	2.490840	-0.190189	0.594088
1	0	1.500091	-1.433653	-0.375314
1	0	0.813940	1.551912	0.185942
1	0	0.360588	0.708440	-1.315194

Frequencies:

-885.9334	86.2877	125.6773
307.4174	401.3651	425.3065
533.8691	784.5294	891.5498
971.2721	1036.4492	1081.7760
1188.0458	1251.0289	1298.6705
1433.0209	1459.1102	1470.1140
2266.1048	2925.7224	2998.3322
3071.9270	3147.2939	3257.9865

T1 diagnostic:

0.01622477

Structure:

ts_i2_i3

Coordinates:

6	0	1.002226	-0.644854	-0.059820
6	0	-0.741616	0.767184	0.131791
6	0	-1.002228	-0.644851	-0.059814
6	0	0.741618	0.767182	0.131800
1	0	1.695159	-0.965434	-0.842058
1	0	1.033146	-1.307969	0.801602
1	0	-1.299911	1.539415	-0.391440
1	0	-1.033131	-1.307959	0.801614
1	0	-1.695177	-0.965436	-0.842037
1	0	1.299921	1.539413	-0.391424

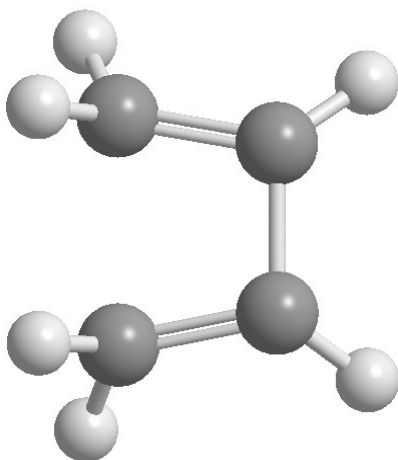
Frequencies:

-896.9752	134.1900	527.6811
597.1497	619.9082	778.9678
829.7466	925.5607	955.2061
974.7144	1011.8771	1034.6076
1137.9958	1186.1492	1329.3290
1353.6855	1468.0822	1492.4619
3048.3919	3054.4365	3104.5655
3124.7361	3129.6067	3142.9966

T1 diagnostic:

0.03095717

Structure:



ts_i5_p2

Coordinates:

6	0	-0.663285	0.432180	-0.205802
6	0	1.895187	-0.171452	0.081291
6	0	-1.721481	-0.443513	0.079806
6	0	0.651755	0.055112	-0.211049
1	0	-0.680787	1.479088	1.365932
1	0	-0.894732	1.368070	-0.709772
1	0	2.309253	0.129768	1.044411
1	0	2.571368	-0.664590	-0.613114
1	0	-2.746090	-0.118806	-0.041793
1	0	-1.532073	-1.427492	0.488855

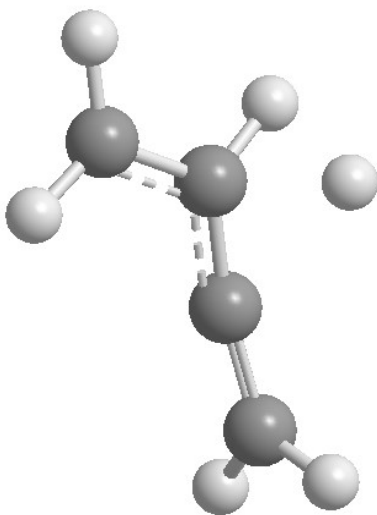
Frequencies:

-710.6959	171.3540	200.6693
421.7556	457.0155	487.0387
549.2874	588.9542	740.5728
893.7232	898.4007	975.8648
1010.3674	1089.9273	1199.2300
1376.0746	1447.3678	1494.8304
1909.0867	3096.7137	3161.3576
3174.8329	3179.1947	3284.0968

T1 diagnostic:

0.01759310

Structure:



ts_i4_i8

Coordinates:

6	0	-0.769528	-0.612171	0.092504
6	0	1.659871	0.279346	-0.007281
6	0	-1.641617	0.593269	-0.081139
6	0	0.644923	-0.562170	0.097414
1	0	-1.323305	-0.366728	-1.003642
1	0	-1.261488	-1.486753	0.506379
1	0	2.689966	-0.062139	-0.040786
1	0	1.513246	1.361983	-0.045439
1	0	-2.679820	0.540750	0.213636
1	0	-1.199458	1.539329	-0.356047

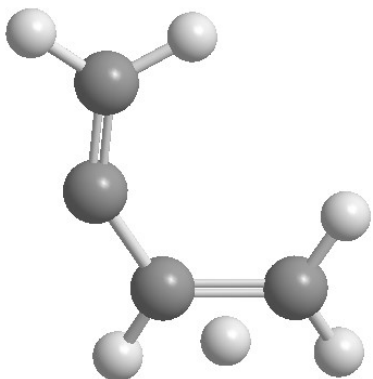
Frequencies:

-1855.8131	180.1858	280.8278
458.7350	504.3766	539.7907
639.2567	805.3066	824.9834
859.3138	996.7515	1054.4220
1122.4509	1234.6313	1356.0748
1414.8899	1426.5717	1662.8217
2192.6749	3043.4492	3149.2337
3156.6019	3157.6842	3281.4753

T1 diagnostic:

0.01752231

Structure:



ts_i3_i4

Coordinates:

6	0	0.733492	-0.566793	-0.033412
6	0	-1.711859	0.368120	-0.003671
6	0	1.572567	0.560641	-0.048712
6	0	-0.704021	-0.531641	-0.096112
1	0	-0.029064	-0.889053	1.044790
1	0	1.189389	-1.551431	-0.113318
1	0	-2.707500	0.127099	-0.357489
1	0	-1.592543	1.319597	0.514888
1	0	2.636184	0.452077	0.120244
1	0	1.162458	1.559748	-0.117675

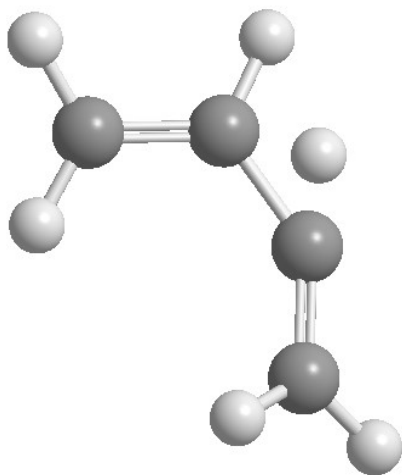
Frequencies:

-1726.9554	178.4215	324.8586
448.6746	509.9090	566.4107
683.6203	687.0673	816.9555
865.7614	987.7958	1061.2513
1145.3368	1207.7439	1394.3042
1423.2518	1481.2649	1539.5831
1658.5731	3076.7804	3121.3051
3147.2384	3185.7055	3247.5446

T1 diagnostic:

0.03026088

Structure:



ts_i8_p1**Coordinates:**

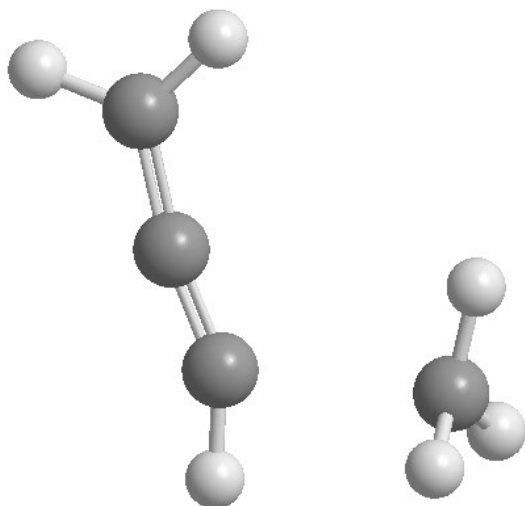
6	0	-0.252251	0.915726	0.000084
6	0	1.943268	-0.470528	-0.000079
6	0	0.855568	0.350307	0.000014
1	0	-0.893180	1.767377	0.000177
1	0	2.950908	-0.070213	-0.000058
1	0	1.830500	-1.550557	-0.000176
6	0	-2.081581	-0.511140	-0.000005
1	0	-1.598876	-1.479011	-0.000319
1	0	-2.539545	-0.187122	0.926350
1	0	-2.539831	-0.186666	-0.926059

Frequencies:

-475.1529	20.8608	120.7363
327.3667	346.0917	405.7175
484.3399	494.9072	524.4888
690.4926	709.7234	825.4584
1011.4557	1082.4677	1412.8514
1419.8282	1451.5241	1864.3066
3088.8898	3114.8448	3200.1146
3247.2219	3256.3177	3399.7402

T1 diagnostic:

0.02175960

Structure:

ts_i8_p2**Coordinates:**

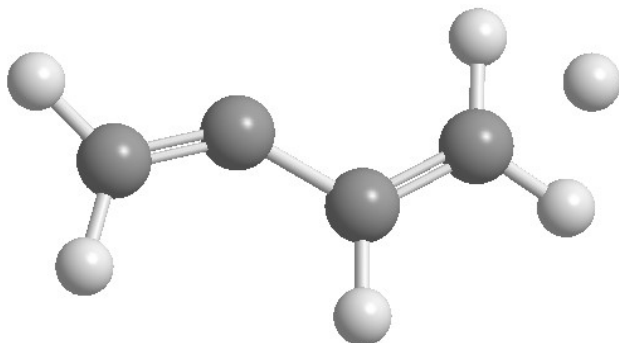
6	0	-0.541791	-0.428801	0.008518
6	0	1.977483	0.049905	-0.044696
6	0	-1.752377	0.113464	0.210009
6	0	0.694506	0.292564	0.080434
1	0	-0.464169	-1.488430	-0.246485
1	0	2.344782	-0.956235	-0.263011
1	0	2.727529	0.827797	0.063398
1	0	-1.859431	1.151532	0.502974
1	0	-2.647947	-0.495234	0.182870
1	0	-2.367694	0.797778	-1.765337

Frequencies:

-571.7472	137.7208	207.6184
246.9076	285.2235	466.9897
491.2718	754.6152	874.3429
902.1174	966.9325	978.2455
1004.7649	1155.6304	1300.6056
1400.4076	1443.3466	1638.6699
1749.4220	3079.1255	3103.0947
3167.1614	3187.9992	3262.6217

T1 diagnostic:

0.01654604

Structure:

ts_i8_p9

Coordinates:

6	0	-0.558007	0.539662	-0.005891
6	0	1.879670	-0.352181	-0.000143
6	0	-1.803888	-0.285519	0.001438
1	0	-1.582228	-1.348153	-0.101705
1	0	-2.358670	-0.139528	0.935986
1	0	-2.472390	0.012232	-0.813331
6	0	0.705727	0.008942	-0.002479
1	0	-0.650189	1.622176	0.005289
1	0	2.935404	1.297015	0.014034
1	0	2.787061	-0.909169	0.002180

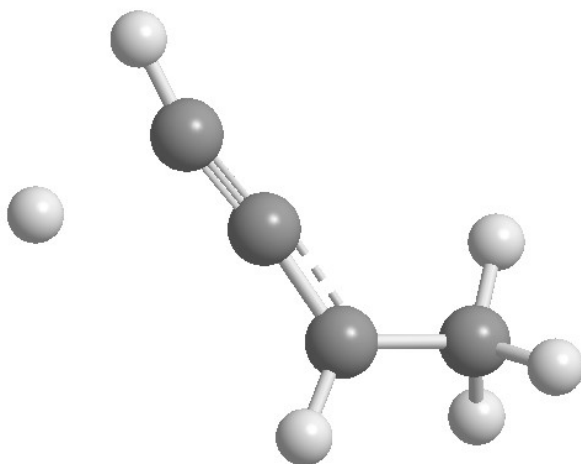
Frequencies:

-793.1631	83.0881	181.9459
210.7902	361.5056	407.5306
492.2835	579.0928	609.7491
801.6373	875.4725	1012.0129
1101.0115	1156.7643	1391.7495
1413.3034	1482.5240	1500.0624
1965.7174	3031.3000	3086.1856
3147.1787	3174.6326	3447.9296

T1 diagnostic:

0.02018420

Structure:



ts_i10_p8**Coordinates:**

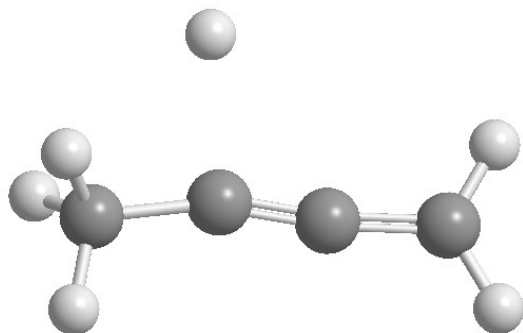
6	0	-0.497871	0.078423	0.000032
6	0	2.090625	-0.066503	-0.000011
6	0	-1.942999	-0.146435	0.000004
6	0	0.725535	-0.076161	0.000006
1	0	-0.570927	1.988533	-0.000083
1	0	2.655512	-0.990501	-0.000057
1	0	2.630032	0.874108	0.000063
1	0	-2.405153	0.305358	0.881396
1	0	-2.404913	0.304308	-0.882065
1	0	-2.156288	-1.217742	0.000561

Frequencies:

-790.0560	131.7119	197.3076
208.7324	372.0398	433.8947
445.8606	522.6435	663.2399
784.9255	1021.2151	1045.0755
1057.6651	1256.0901	1421.1050
1459.8360	1473.6775	1485.6053
2073.6668	3050.9002	3122.2417
3134.3974	3155.1659	3254.2691

T1 diagnostic:

0.02065187

Structure:

ts_i8_i10

Coordinates:

6	0	0.611672	0.657720	0.103089
6	0	1.635309	-0.412833	-0.054782
1	0	0.720781	1.373595	0.914234
1	0	1.666587	-0.780819	-1.086284
1	0	2.628120	-0.049854	0.224328
1	0	1.423246	-1.291037	0.578062
6	0	-1.783364	-0.311977	0.111075
6	0	-0.797884	0.400180	-0.374882
1	0	-2.753225	-0.366629	-0.377674
1	0	-1.679898	-0.883796	1.040335

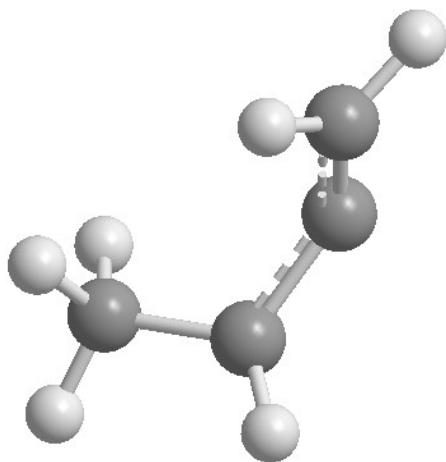
Frequencies:

-465.0463	158.7582	218.7559
365.0946	468.1832	508.5195
813.7434	882.2026	959.8592
1001.9208	1068.8961	1121.7668
1302.3381	1388.1680	1394.6630
1462.9668	1477.6588	1709.3372
2939.1336	3014.9951	3028.6256
3085.5175	3133.6528	3142.5985

T1 diagnostic:

0.01590905

Structure:



ts_i4_i5

Coordinates:

6	0	-0.696259	0.623549	0.093673
6	0	-1.570097	-0.582686	-0.050457
1	0	-1.098507	1.455136	-0.514383
1	0	-0.737993	1.004544	1.126503
1	0	-2.523827	-0.624863	0.461010
1	0	-1.324856	-1.356057	-0.765774
6	0	1.758792	-0.304516	0.097843
6	0	0.715753	0.387943	-0.282237
1	0	2.707674	-0.259665	-0.430944
1	0	1.728373	-0.964835	0.970667

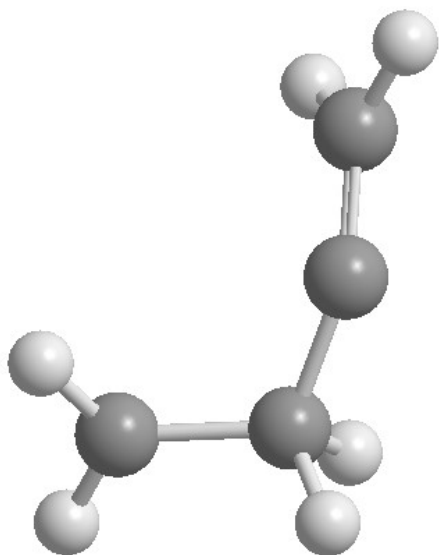
Frequencies:

-126.5251	164.7589	246.2824
374.4878	462.2049	578.6353
800.6755	864.8603	889.1364
980.5293	1044.5749	1074.0864
1180.1657	1318.7162	1412.9963
1439.4747	1447.9532	1737.9462
2894.4550	2961.5377	3026.8304
3139.8186	3141.9119	3254.0208

T1 diagnostic:

0.01468014

Structure:



ts_i12_i14

Coordinates:

6	0	-0.736469	-0.089189	0.428213
6	0	1.696661	-0.385809	-0.128357
6	0	0.557235	0.573715	-0.038967
6	0	-1.852635	-0.140045	-0.231421
1	0	-0.657007	-0.565290	1.414661
1	0	2.714677	-0.061606	0.049224
1	0	1.536124	-1.390410	-0.500230
1	0	0.807189	1.385121	0.656390
1	0	0.371536	1.054169	-1.012027
1	0	-2.761273	-0.174017	-0.784826

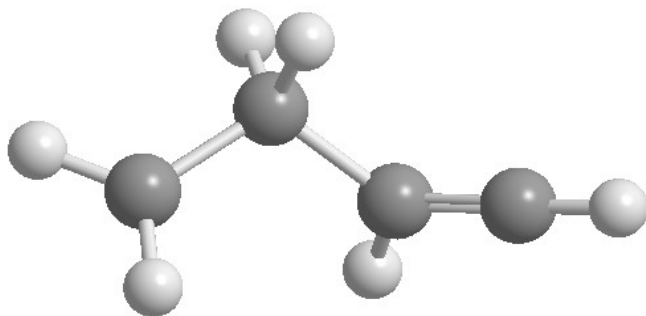
Frequencies:

-698.3756	103.4071	161.7732
343.9473	425.4348	495.5317
658.0153	756.1417	808.4573
950.9879	1041.7525	1086.4383
1176.6017	1281.9274	1316.5423
1454.2246	1456.5206	1664.7312
2959.6267	2987.1614	3018.9918
3135.8867	3241.0890	3436.2501

T1 diagnostic:

0.01406482

Structure:



ts_i8_p2

Coordinates:

6	0	-0.639708	-0.623320	0.103384
6	0	-1.537425	0.322618	-0.255356
6	0	1.779445	0.342220	0.009664
6	0	0.775175	-0.500488	-0.038043
1	0	-1.005165	-1.555997	0.527936
1	0	-1.230028	1.230781	-0.759186
1	0	-2.600966	0.130027	-0.178864
1	0	-1.868034	1.519089	1.416848
1	0	2.801541	0.035677	-0.197684
1	0	1.637735	1.394239	0.273059

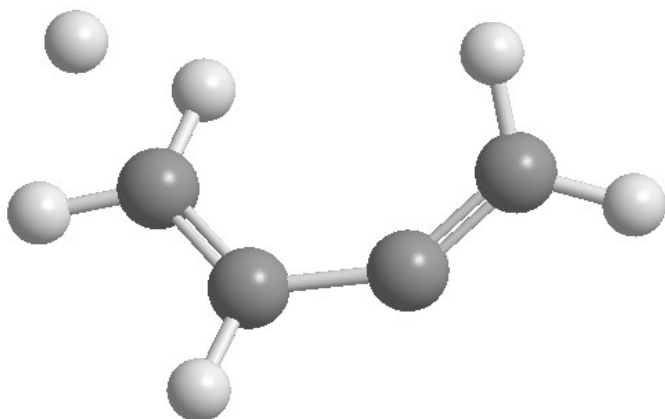
Frequencies:

-689.6077	166.0296	188.4364
250.2960	339.9077	403.0044
567.9886	715.6708	872.2782
886.4945	944.2521	986.5177
1005.6963	1086.7735	1306.6867
1405.0694	1438.5022	1586.7493
1729.1155	3039.1811	3127.6998
3142.3582	3144.2589	3234.8941

T1 diagnostic:

0.01753685

Structure:



ts_i7_p2**Coordinates:**

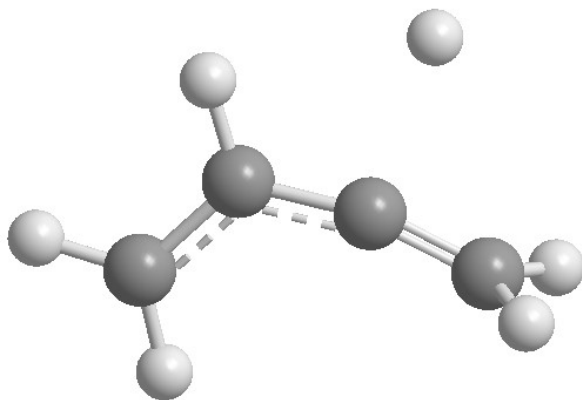
6	0	-0.723703	0.506578	0.000000
6	0	1.767400	-0.393087	0.000001
6	0	-1.740969	-0.444550	0.000000
6	0	0.597133	0.204308	-0.000003
1	0	-1.000339	1.556633	0.000003
1	0	2.299339	-0.608767	0.925616
1	0	2.299345	-0.608768	-0.925610
1	0	-2.778038	-0.136493	0.000003
1	0	-1.520503	-1.504184	-0.000003
1	0	1.301030	2.062083	0.000001

Frequencies:

-700.8007	213.0393	248.4142
261.1660	489.7293	496.3484
548.4711	594.9448	752.4824
874.8251	906.2663	948.0351
987.2957	1085.5211	1196.4267
1376.6045	1447.1921	1488.8080
1823.9214	3073.7532	3139.0754
3147.9110	3151.5945	3251.8558

T1 diagnostic:

0.02232165

Structure:

ts_i14_p10**Coordinates:**

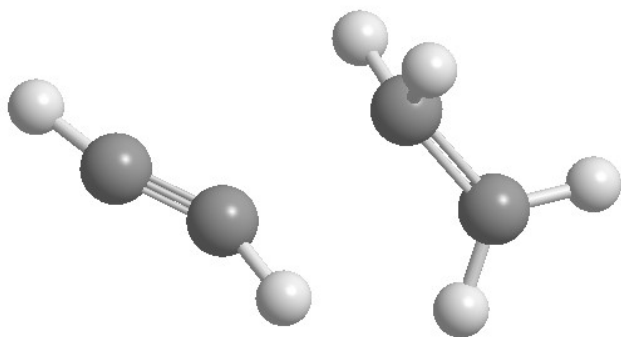
6	0	-1.098681	-0.482201	0.258055
6	0	1.873361	-0.327302	-0.212969
6	0	0.869561	0.653585	0.177548
6	0	-2.074242	0.078870	-0.214384
1	0	-0.602288	-1.299333	0.735048
1	0	2.929843	-0.069560	-0.246576
1	0	1.606028	-1.324097	-0.551133
1	0	0.830587	0.985944	1.214746
1	0	0.591356	1.432102	-0.532602
1	0	-2.775523	0.737240	-0.668980

Frequencies:

-488.2169	45.0043	184.5377
246.5248	307.3782	426.1285
527.8949	631.3390	683.2614
747.7608	766.0220	808.1023
956.2795	986.5297	1116.1856
1426.5215	1448.5430	1899.3572
3061.7761	3091.4785	3129.4580
3175.7694	3355.9220	3462.8653

T1 diagnostic:

0.01746582

Structure:

ts_i5_i12

Coordinates:

6	0	0.704091	-0.226583	-0.280664
6	0	-1.783015	-0.336968	0.076649
6	0	-0.577086	0.527777	-0.051633
6	0	1.937351	0.070756	0.147726
1	0	1.172884	-0.788588	0.775724
1	0	-2.683995	0.046800	0.537702
1	0	-1.813368	-1.305019	-0.406549
1	0	-0.662683	1.180667	-0.940626
1	0	-0.490798	1.221430	0.798056
1	0	2.789916	-0.565177	-0.116782

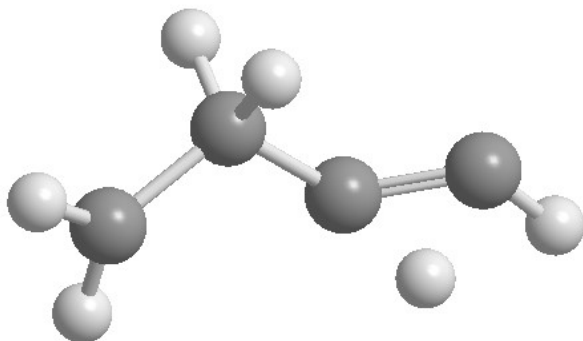
Frequencies:

-943.1850	114.3270	180.4999
295.4617	445.7148	489.0337
613.2382	797.7643	883.1791
958.5995	1070.9665	1106.0116
1175.8680	1257.5395	1328.6646
1425.3803	1451.6175	1561.3718
2213.2376	2913.6764	2974.4141
3035.0885	3143.9429	3252.9326

T1 diagnostic:

0.01951632

Structure:



ts_i8_p9

Coordinates:

6	0	0.602142	-0.616149	0.000017
6	0	1.688655	0.416409	-0.000051
1	0	0.888492	-1.664213	-0.000052
1	0	1.280552	1.427313	-0.000478
1	0	2.334324	0.303922	0.879450
1	0	2.334749	0.303323	-0.879152
6	0	-1.902383	0.067478	0.000007
6	0	-0.732782	-0.312648	0.000131
1	0	-2.959942	0.172648	-0.000635
1	0	-1.811968	2.126469	0.000245

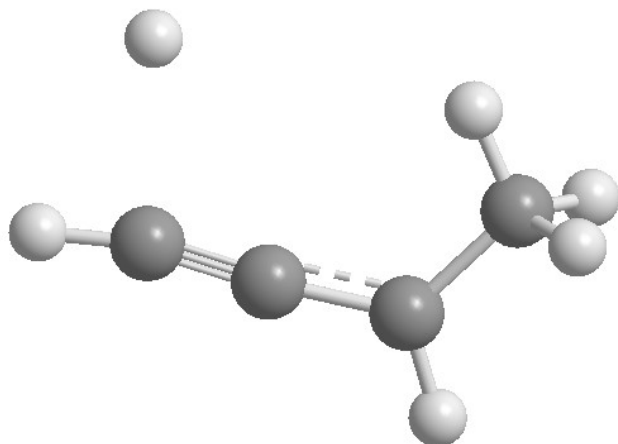
Frequencies:

-514.4016	89.3634	171.7330
211.9772	335.7790	394.4045
440.2723	564.0720	624.4754
748.1612	870.0101	1005.7857
1094.6457	1146.1096	1381.5418
1401.1321	1476.2774	1492.7389
1962.6707	3001.0804	3038.5467
3116.5261	3144.7184	3454.5958

T1 diagnostic:

0.01969102

Structure:



ts_i7_i9

Coordinates:

6	0	-0.796023	-0.575807	-0.000176
6	0	1.703086	0.374200	0.010987
6	0	-1.606076	0.543698	-0.016033
6	0	0.582197	-0.534764	-0.068115
1	0	-1.266855	-1.552235	0.088663
1	0	2.322187	0.549389	-0.864024
1	0	1.785990	1.069858	0.843957
1	0	-2.681052	0.458959	0.083207
1	0	-1.184687	1.538186	-0.105703
1	0	1.725314	-0.908121	0.393919

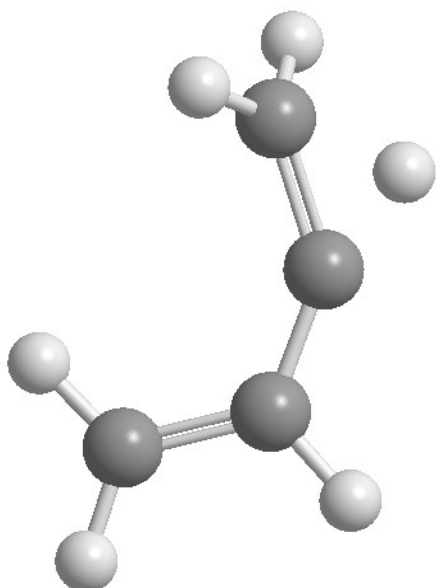
Frequencies:

-2046.4507	140.0729	199.9625
309.4251	561.4030	598.9374
759.2435	789.5837	860.9916
939.1284	986.9134	1024.0058
1050.0466	1225.4181	1372.4795
1403.0542	1475.4110	1506.0581
2191.0893	3073.8097	3128.6854
3138.8201	3179.4930	3233.6645

T1 diagnostic:

0.02351364

Structure:



ts_i5_i6

Coordinates:

6	0	0.610670	0.299155	0.374283
6	0	-1.918010	0.028501	-0.175795
6	0	1.878336	-0.084381	-0.262018
6	0	-0.647084	-0.301622	0.018202
1	0	0.087225	-0.781268	0.971230
1	0	0.577462	1.244687	0.930651
1	0	-2.729190	-0.676448	-0.032433
1	0	-2.185499	1.018177	-0.550962
1	0	2.494370	-0.896751	0.104428
1	0	2.212166	0.441690	-1.150946

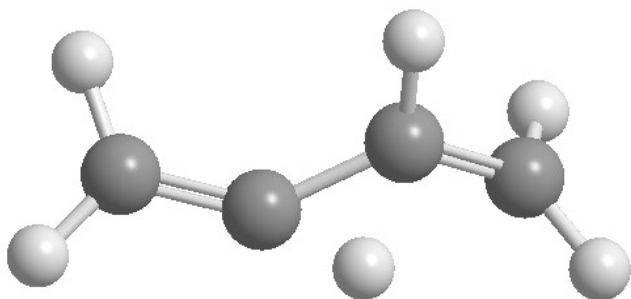
Frequencies:

-1933.2050	166.0346	176.1062
267.2171	393.4981	529.5726
622.1099	772.6644	841.5661
936.4583	995.9764	1018.3519
1112.8784	1149.8597	1244.9432
1429.5516	1447.8719	1647.0299
2154.4765	2989.9238	3062.6266
3116.8423	3179.8039	3214.9148

T1 diagnostic:

0.01547825

Structure:



ts_i5_p4

Coordinates:

6	0	-0.693742	0.588996	0.037481
6	0	1.825075	-0.271354	0.137950
6	0	-1.714960	-0.493947	-0.079112
6	0	0.673536	0.094217	0.159772
1	0	-0.733180	1.252664	-0.844323
1	0	-0.920762	1.238332	0.891944
1	0	2.533015	0.433071	-1.566659
1	0	2.780616	-0.693969	0.342890
1	0	-2.759473	-0.264879	0.087904
1	0	-1.439665	-1.472686	-0.448300

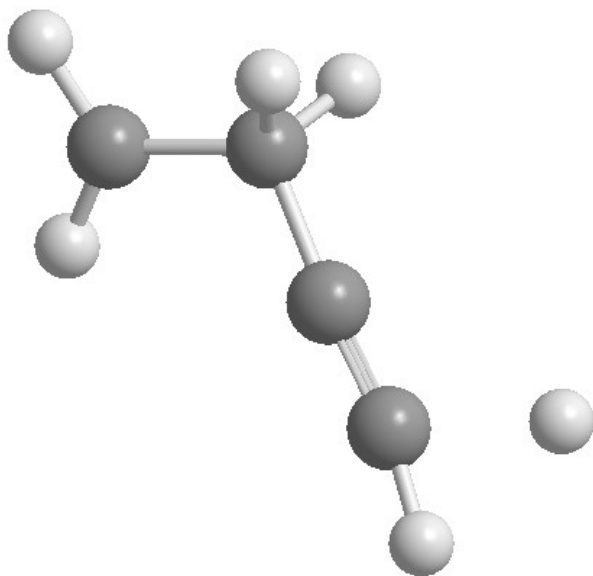
Frequencies:

-709.3566	73.2851	142.6224
207.6792	251.2555	427.1683
462.9426	546.6768	695.8488
808.5097	830.2306	885.6463
1057.4071	1099.7041	1203.7515
1353.5881	1443.4003	1458.3537
2182.8744	2952.3947	3047.9341
3171.2286	3288.9460	3461.3276

T1 diagnostic:

0.01466702

Structure:



ts_i3_i7

Coordinates:

6	0	-0.695116	0.614838	0.007836
6	0	-1.499939	-0.566087	-0.027295
6	0	0.666354	0.638382	0.025180
1	0	-1.216675	1.567724	0.023934
1	0	-2.578379	-0.497980	-0.077809
1	0	-1.059945	-1.553687	-0.004897
1	0	1.162448	1.604783	0.046246
6	0	1.523209	-0.544373	-0.003865
1	0	1.189355	-1.498862	0.380378
1	0	2.536143	-0.478536	-0.378988

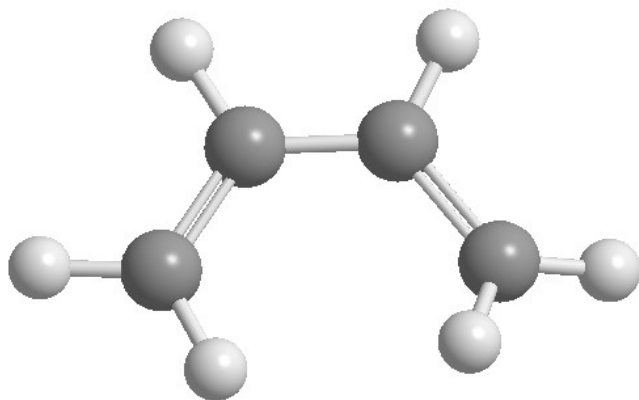
Frequencies:

-233.8281	273.9435	304.3426
401.1536	501.9989	586.7466
636.6921	714.2358	912.2389
941.4362	984.2213	1053.9994
1125.9036	1272.1304	1401.4588
1459.7891	1485.3416	1616.0847
3136.2374	3150.3602	3154.7117
3162.4532	3249.9849	3257.2025

T1 diagnostic:

0.01707735

Structure:



ts_i9_p2**Coordinates:**

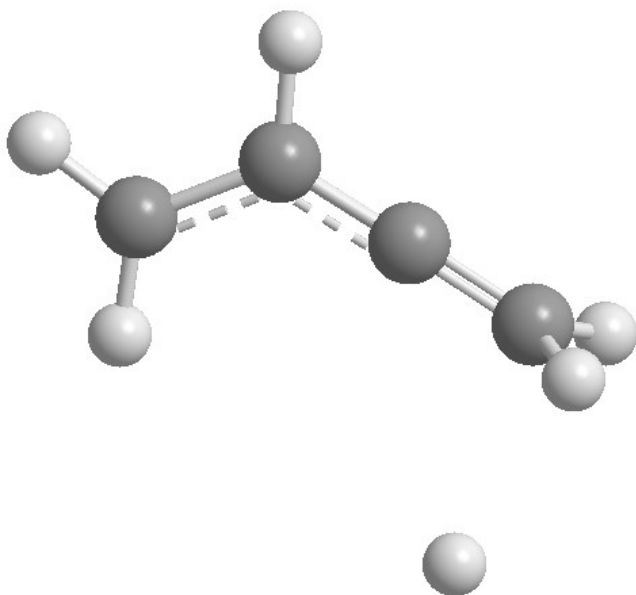
6	0	-0.787142	0.526431	0.000031
6	0	1.820121	0.033265	-0.000026
6	0	-1.785730	-0.444245	-0.000023
6	0	0.540290	0.289351	0.000001
1	0	-1.091262	1.572894	0.000104
1	0	2.391094	-0.039397	0.924475
1	0	2.391077	-0.039279	-0.924547
1	0	-2.828899	-0.158411	0.000006
1	0	-1.542709	-1.498833	-0.000096
1	0	1.955465	-2.265786	0.000158

Frequencies:

-199.2136	151.7140	175.5651
205.1114	254.0232	520.1237
551.0853	570.8289	748.8254
888.2419	903.1894	931.8632
983.0071	1085.3687	1194.5041
1373.6132	1448.1878	1492.1346
1875.8065	3073.6535	3108.1747
3136.1896	3152.3484	3253.2211

T1 diagnostic:

0.02211988

Structure:

ts_i6_i7

Coordinates:

6	0	-0.643073	-0.374524	0.428266
6	0	-1.744802	0.345589	-0.192698
1	0	-0.831259	-1.007594	1.296517
1	0	-1.935164	1.393266	0.027877
1	0	-2.367125	-0.111570	-0.960199
6	0	1.700551	0.391227	0.024096
6	0	0.692113	-0.447349	-0.206441
1	0	2.652719	0.279930	-0.483429
1	0	1.608567	1.212377	0.727441
1	0	0.843522	-1.256065	-0.927548

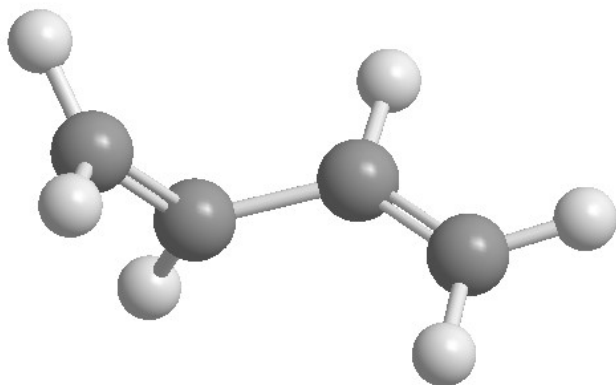
Frequencies:

-244.1859	222.8555	268.4133
446.9510	473.9281	593.9922
677.7194	916.8544	925.2570
952.0159	1002.3307	1067.0750
1139.3647	1296.9591	1311.4640
1430.4093	1442.7321	1676.9051
3050.7445	3078.4188	3083.5950
3127.8141	3161.5115	3211.1421

T1 diagnostic:

0.01274895

Structure:



ts_i13_p8**Coordinates:**

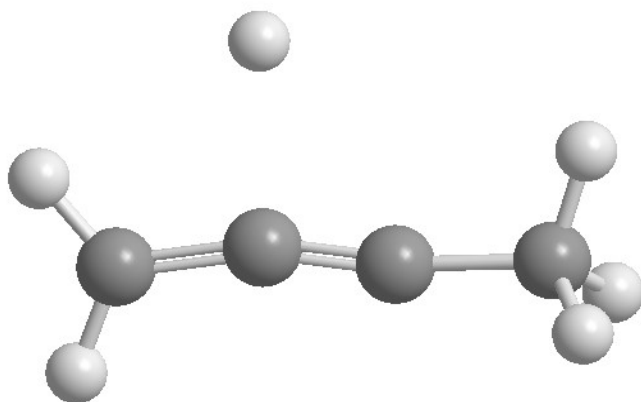
6	0	0.536784	-0.098265	0.000143
6	0	-2.048267	-0.145278	0.000047
6	0	1.987439	-0.047679	-0.000033
6	0	-0.689047	0.050111	0.000075
1	0	-2.441951	-1.154706	-0.001083
1	0	-2.738751	0.686476	0.000759
1	0	2.398615	-0.545781	-0.882821
1	0	2.329691	0.991971	-0.003721
1	0	2.398604	-0.539459	0.886312
1	0	-0.667658	2.008170	-0.000839

Frequencies:

-710.0204	60.8477	134.8119
180.3206	183.5450	434.5214
453.0284	512.6223	684.0569
785.8385	1027.6187	1035.8311
1038.5871	1254.6666	1412.0099
1462.7858	1470.5804	1479.3788
2052.8528	3038.2626	3110.3434
3113.4426	3169.3274	3274.2319

T1 diagnostic:

0.02136460

Structure:

ts_i8_i9

Coordinates:

6	0	0.760668	-0.390882	-0.000009
6	0	-1.840829	0.306313	0.000004
6	0	1.919690	0.347115	0.000003
6	0	-0.571467	-0.475434	-0.000012
1	0	0.138344	-1.557537	0.000036
1	0	-2.445867	0.068341	-0.880448
1	0	-2.445712	0.068543	0.880617
1	0	-1.637612	1.384303	-0.000135
1	0	2.894688	-0.122958	0.000025
1	0	1.887786	1.436637	-0.000008

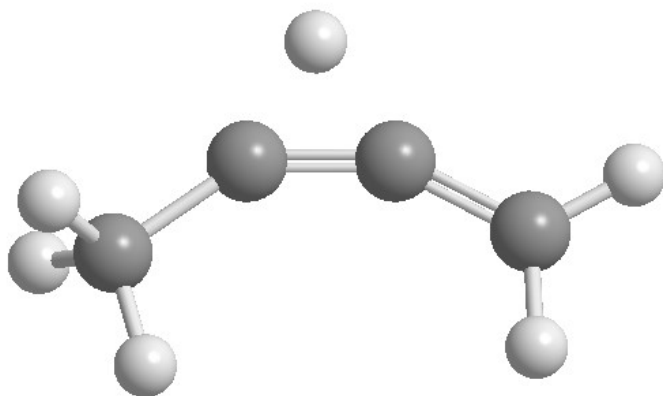
Frequencies:

-2156.5055	70.1208	174.7488
209.4577	428.8040	442.9584
623.3590	736.0958	786.3960
1013.4031	1018.9453	1034.1381
1161.4640	1383.2800	1455.7060
1463.7900	1470.8123	1653.2618
2258.5469	2994.7877	3062.7767
3069.5705	3077.0792	3206.8718

T1 diagnostic:

0.01953849

Structure:



ts_i9_i13**Coordinates:**

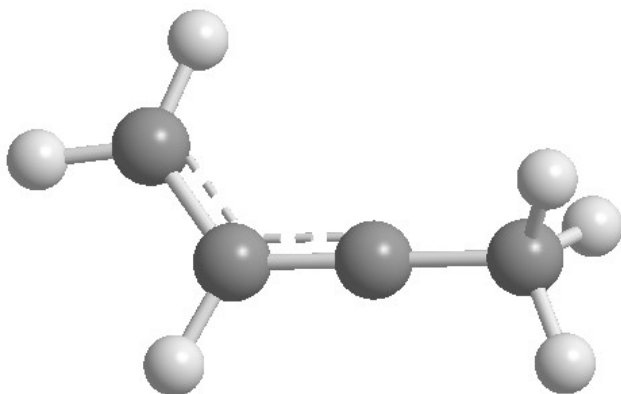
6	0	0.517980	-0.177804	-0.000008
6	0	1.924550	0.167572	0.000003
1	0	2.193165	0.763529	-0.883259
1	0	2.193038	0.764041	0.882961
1	0	2.582776	-0.716164	0.000309
6	0	-1.867635	0.388752	0.000000
6	0	-0.793899	-0.499930	-0.000001
1	0	-1.710713	1.460578	-0.000001
1	0	-2.886936	0.022551	0.000011
1	0	-1.057309	-1.566075	0.000011

Frequencies:

-290.1525	22.9225	104.6027
393.1318	541.2650	757.7177
781.1747	884.9914	987.0949
1010.9856	1034.7708	1182.0665
1345.8902	1403.7504	1449.5923
1461.3893	1483.9634	1587.8059
2937.8927	2984.2778	2988.1594
3010.7038	3138.0230	3236.8403

T1 diagnostic:

0.01840679

Structure:

ts_p0_i15**Coordinates:**

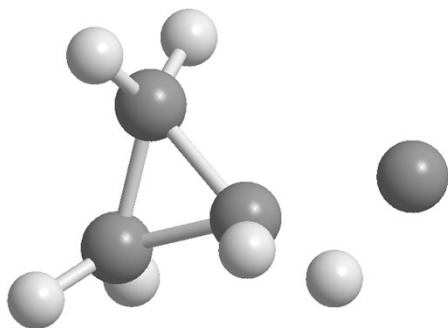
6	0	0.283772	-0.241546	0.455140
6	0	-1.058391	-0.570676	-0.233046
6	0	-0.657747	0.847193	-0.037547
6	0	1.902703	0.050655	-0.236322
1	0	0.369954	-0.448105	1.514988
1	0	-1.829875	-1.001322	0.393892
1	0	-1.001627	-0.975825	-1.236849
1	0	-0.320618	1.413090	-0.896483
1	0	-1.133399	1.429531	0.743751
1	0	1.093542	-0.931121	-0.208648

Frequencies:

-415.1538	235.2688	306.5655
603.6952	732.1538	784.6149
818.6358	878.2543	982.5118
1054.4137	1080.1582	1102.6973
1159.6236	1198.0319	1210.8796
1262.2013	1459.4223	1489.0579
2071.3369	3122.6263	3124.9953
3168.7237	3206.8650	3222.7288

T1 diagnostic:

0.01503939

Structure:

ts_i15_i17

Coordinates:

6	0	-0.497947	0.138715	0.488952
6	0	0.692832	0.737273	-0.212230
6	0	1.150145	-0.667620	-0.087191
6	0	-1.666635	-0.228551	-0.103486
1	0	-0.432603	0.097499	1.572579
1	0	1.241138	1.481399	0.363238
1	0	0.495462	1.084049	-1.224576
1	0	0.975352	-1.368200	-0.889895
1	0	1.745519	-0.985961	0.756806
1	0	-2.095234	-0.187682	-1.094426

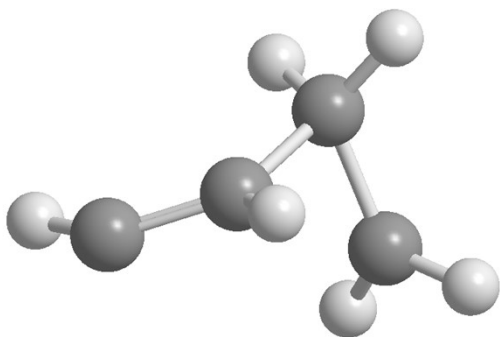
Frequencies:

-579.5144	273.7564	371.0480
486.7788	589.7454	698.1515
810.2085	825.8318	865.3628
924.0470	1072.9099	1135.2047
1196.9049	1217.3600	1251.0265
1409.0861	1452.7806	1487.7986
3075.0212	3132.2796	3146.1458
3160.7642	3226.4408	3272.9631

T1 diagnostic:

0.00157814

Structure:



ts_i15_i16

Coordinates:

6	0	-0.327641	-0.048158	0.271792
6	0	0.876048	0.783241	-0.060756
6	0	0.956235	-0.734050	-0.091720
6	0	-1.690495	-0.074330	-0.067819
1	0	-1.288192	0.037621	1.168697
1	0	1.389286	1.296769	0.746264
1	0	0.868041	1.320251	-1.005587
1	0	0.998452	-1.230919	-1.057804
1	0	1.518954	-1.222882	0.696349
1	0	-2.371422	0.238940	-0.856898

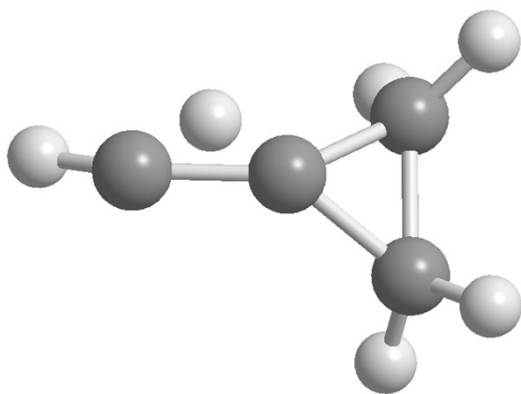
Frequencies:

-2090.4672	212.1393	312.7046
406.4782	595.4699	726.1161
785.8193	821.8247	869.8690
960.5294	1000.3771	1026.3475
1058.3004	1103.7984	1169.8350
1434.6336	1455.6065	1486.0701
2209.7630	3090.6087	3091.3305
3098.0521	3168.2136	3183.5715

T1 diagnostic:

0.01700539

Structure:



ts_i1_p5

Coordinates:

6	0	-1.105114	-0.204237	0.108672
6	0	1.026593	-0.101781	-0.213934
6	0	-0.067373	0.958707	-0.056050
6	0	0.109973	-1.068561	-0.119692
1	0	-1.877176	-0.253455	-0.660529
1	0	-1.558371	-0.284465	1.098203
1	0	2.076652	-0.043409	-0.458428
1	0	1.780292	-0.080728	1.835495
1	0	0.030544	1.597787	0.823912
1	0	-0.236421	1.559500	-0.952631

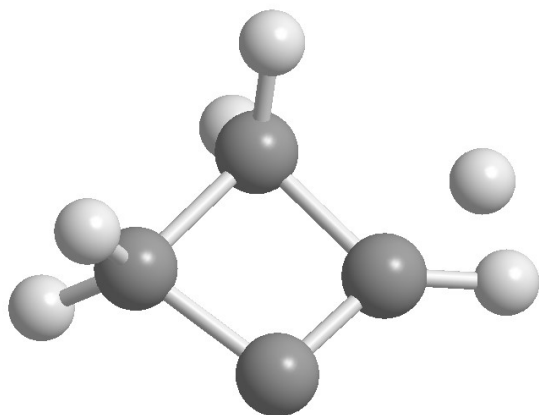
Frequencies:

-464.1592	227.7318	277.2898
375.3307	741.3606	827.3989
867.6608	884.0109	911.4862
1011.5837	1057.9600	1072.4153
1137.7768	1167.3022	1196.3817
1243.4943	1459.1972	1490.2457
1572.7191	3068.4959	3088.6497
3133.3565	3149.2684	3258.5129

T1 diagnostic:

0.01617165

Structure:



ts_i2_p5**Coordinates:**

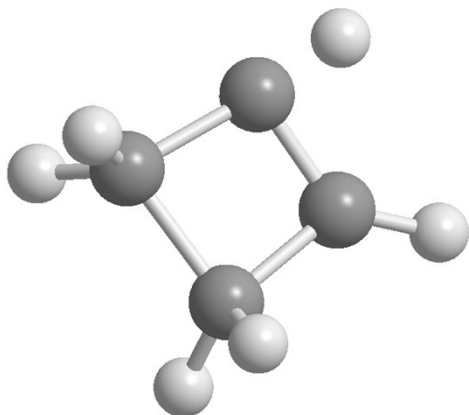
6	0	-1.067576	0.170265	-0.111287
6	0	1.089938	0.008981	-0.133013
6	0	-0.034226	-0.984885	0.159682
6	0	0.198659	1.009262	-0.216233
1	0	-1.754509	0.418038	0.696836
1	0	-1.611473	0.056325	-1.049895
1	0	2.163257	-0.089585	-0.200662
1	0	-0.103603	-1.805659	-0.562301
1	0	-0.056582	-1.370362	1.182471
1	0	0.242144	1.569499	1.738660

Frequencies:

-602.6475	275.6357	357.0459
413.7171	717.5176	822.2745
826.1747	854.5334	896.3354
994.5616	1021.5639	1063.9898
1122.9856	1160.1654	1187.1210
1227.1043	1448.5855	1474.8185
1530.4123	3015.4986	3073.5830
3080.7473	3130.4120	3230.0302

T1 diagnostic:

0.01689081

Structure:

ts_i1_p7

Coordinates:

6	0	-1.169124	-0.146172	0.222597
6	0	1.169124	-0.146172	0.222597
6	0	0.000000	0.617240	-0.335550
6	0	0.000000	-0.897473	-0.311927
1	0	-2.072974	-0.141368	-0.379963
1	0	-1.355366	-0.163635	1.298681
1	0	2.072974	-0.141367	-0.379962
1	0	1.355366	-0.163635	1.298681
1	0	-0.000001	2.843840	0.621449
1	0	0.000000	1.201626	-1.245183

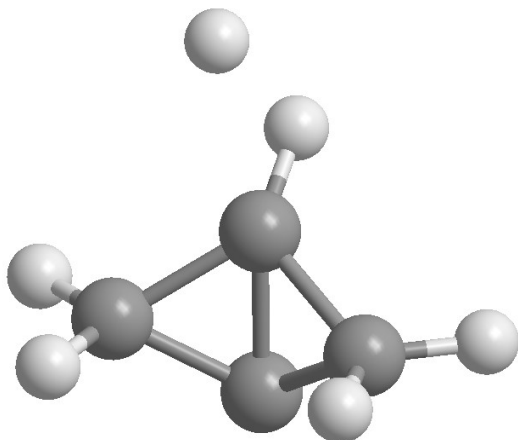
Frequencies:

-373.6897	132.5146	182.6645
318.5506	510.8945	669.4103
813.3669	867.0013	930.3370
994.9442	1068.6358	1084.9472
1108.1908	1123.5195	1168.7049
1256.8095	1267.6491	1481.9588
1512.2916	3043.5769	3045.0215
3155.3740	3157.3107	3192.5033

T1 diagnostic:

0.01427574

Structure:



ts_i2_p6

Coordinates:

6	0	-0.097698	0.639841	0.436072
6	0	0.012568	-0.920229	0.082205
6	0	1.084306	0.057289	-0.298445
6	0	-1.175803	-0.131291	-0.184963
1	0	-0.359876	2.482253	-0.352005
1	0	-0.073992	1.012353	1.451247
1	0	0.118031	-1.705763	0.819476
1	0	2.026242	-0.008892	0.244336
1	0	1.195214	0.319771	-1.349459
1	0	-1.845856	0.026612	-1.022810

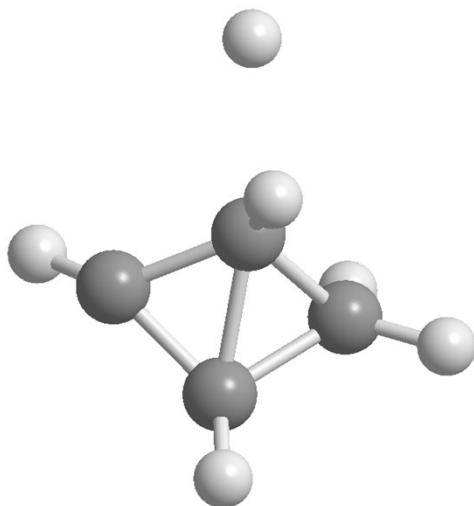
Frequencies:

-453.6681	259.5632	296.3767
396.9958	658.6354	694.1549
767.2305	778.9477	861.9711
964.3556	1013.8260	1021.2027
1078.2464	1131.5177	1153.6550
1209.2531	1223.2977	1321.9106
1507.1851	3061.6608	3140.4587
3152.2284	3182.8737	3194.5374

T1 diagnostic:

0.01647501

Structure:



ts_i16_i5

Coordinates:

6	0	0.427385	0.211274	-0.384058
6	0	-0.855900	0.720669	0.095671
6	0	-1.153187	-0.736719	0.037382
6	0	1.664998	-0.102363	0.071356
1	0	-1.404456	1.349575	-0.607055
1	0	-0.833367	1.179571	1.089376
1	0	-1.017542	-1.356729	0.911273
1	0	-1.583691	-1.172983	-0.852125
1	0	2.461451	-0.394489	-0.603685
1	0	1.877827	-0.162109	1.140107

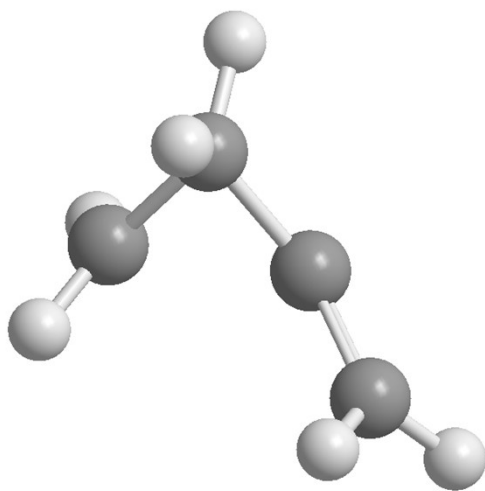
Frequencies:

-668.1704	286.2977	294.8060
471.3135	635.8184	661.2783
695.8181	805.1523	866.3236
930.8715	1067.8613	1115.1172
1184.5947	1205.1208	1396.6445
1446.4062	1464.1829	1492.7072
3018.4103	3063.9401	3086.8906
3161.0374	3181.1732	3274.7877

T1 diagnostic:

0.02177634

Structure:



ts_i5_i17

Coordinates:

6	0	0.703511	-0.128323	-0.194135
6	0	-0.625422	0.549952	-0.116516
6	0	-1.771496	-0.366714	0.153110
6	0	1.946556	-0.134003	0.158550
1	0	1.527351	-0.951367	-0.745878
1	0	-0.784805	1.092840	-1.063795
1	0	-0.567563	1.337145	0.655246
1	0	-1.670299	-1.434810	0.016332
1	0	-2.741851	0.041222	0.405817
1	0	2.718276	0.389496	0.726224

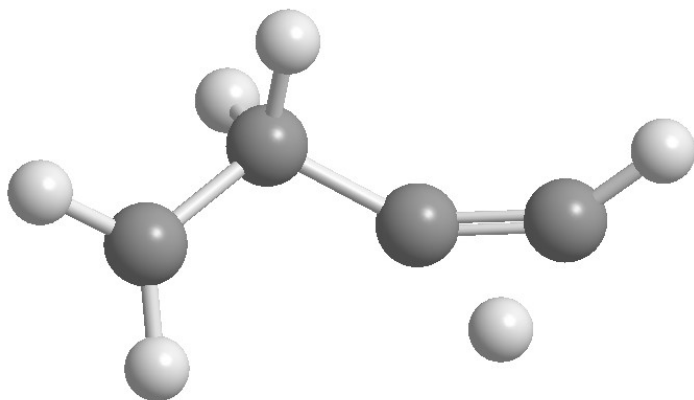
Frequencies:

-2094.8740	88.5514	102.5747
198.1562	311.9878	414.8359
456.6422	622.1773	791.1902
848.2769	868.3331	1033.7703
1087.3812	1168.8814	1317.3873
1431.5868	1449.2024	1849.3392
2349.6682	2925.7207	2941.4287
3047.7814	3145.6317	3255.8992

T1 diagnostic:

0.01243192

Structure:



ts_i15_p13

Coordinates:

6	0	-0.387631	-0.047942	0.037275
6	0	0.857204	0.790478	-0.062960
6	0	0.929009	-0.726161	-0.076883
6	0	-1.667378	-0.129793	-0.156515
1	0	-0.528309	-0.034058	2.128324
1	0	1.189256	1.305983	0.830860
1	0	1.008977	1.327642	-0.992804
1	0	1.144152	-1.225656	-1.015753
1	0	1.322440	-1.218420	0.805336
1	0	-2.523738	0.525021	-0.201461

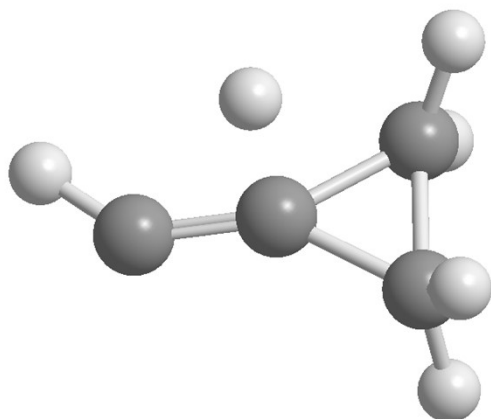
Frequencies:

-475.7893	257.0816	346.7435
375.5408	417.7105	652.9858
743.1293	756.9066	776.4054
867.0045	886.3091	1037.4024
1055.9316	1068.6553	1093.8799
1176.1498	1446.9255	1467.3953
1720.2540	3112.5118	3115.3997
3193.6016	3207.4523	3244.3042

T1 diagnostic:

0.01913932

Structure:



ts_i16_p12**Coordinates:**

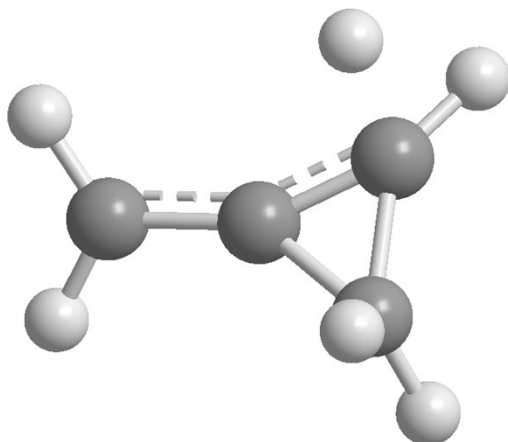
6	0	-0.276313	0.032224	-0.081069
6	0	1.008686	-0.757563	0.095096
6	0	0.853866	0.697000	-0.243257
6	0	-1.686433	-0.034367	0.022357
1	0	1.289388	-1.480943	-0.671565
1	0	1.326754	-1.025880	1.104626
1	0	1.114734	1.504042	1.391425
1	0	1.336056	1.514753	-0.752138
1	0	-2.225056	-0.912319	-0.310189
1	0	-2.240709	0.776583	0.479081

Frequencies:

-1083.7221	203.0908	303.6455
308.0746	357.7024	507.5053
560.4897	693.7663	840.0006
925.7689	953.7947	1026.3465
1045.6014	1060.4681	1070.4169
1146.8159	1437.4573	1500.8306
1720.7783	3026.8411	3095.8447
3141.4053	3242.3559	3244.6317

T1 diagnostic:

0.01780955

Structure:

ts_i16_p13**Coordinates:**

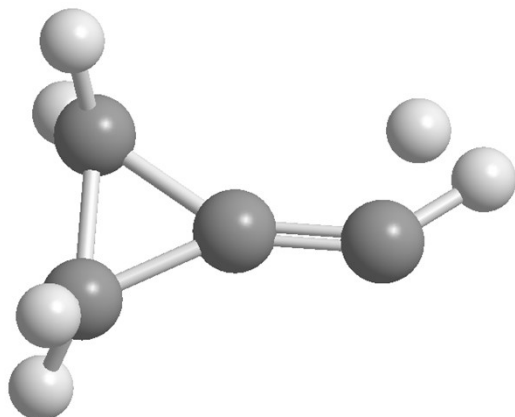
6	0	0.320332	-0.059180	-0.140158
6	0	-0.899049	0.794849	0.016439
6	0	-0.985749	-0.721510	0.066015
6	0	1.605599	-0.154006	-0.230076
1	0	-1.270222	1.304244	-0.867238
1	0	-1.000112	1.349295	0.943910
1	0	-1.159683	-1.194252	1.028044
1	0	-1.429260	-1.236863	-0.780433
1	0	2.458806	0.468460	-0.446154
1	0	2.153668	0.148200	1.848551

Frequencies:

-399.2021	187.5913	219.3665
334.1391	347.7910	693.4207
739.2413	752.1764	767.4019
862.2664	882.1569	1033.8173
1062.6790	1065.9005	1093.8554
1173.7422	1445.7882	1466.2634
1753.0816	3099.3004	3103.9721
3177.4084	3193.8362	3254.1726

T1 diagnostic:

0.01858463

Structure:

ts_i17_p4**Coordinates:**

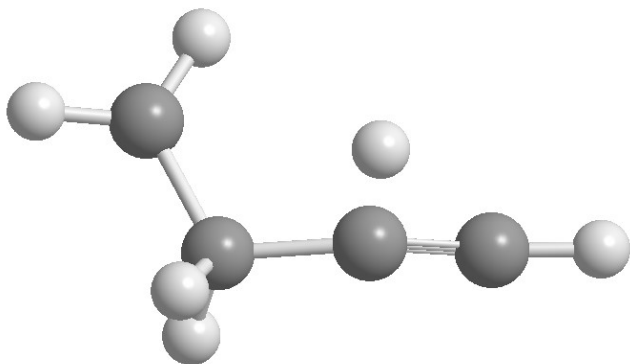
6	0	0.750793	-0.125755	0.057368
6	0	-0.639812	-0.591338	-0.072434
6	0	-1.660755	0.500639	-0.039473
6	0	1.892227	0.215737	-0.165817
1	0	0.690567	0.166081	1.983544
1	0	-0.852518	-1.330664	0.709489
1	0	-0.707588	-1.147948	-1.022340
1	0	-1.383599	1.528034	-0.228233
1	0	-2.705565	0.249955	0.089474
1	0	2.903985	0.538844	-0.209803

Frequencies:

-660.3974	73.4703	132.9139
241.5267	406.6435	443.7879
469.8593	533.0264	652.0140
683.7433	821.0400	880.4374
1048.0907	1085.6201	1197.7072
1342.5109	1447.1361	1453.6226
2136.2283	2943.7238	3018.1558
3151.6005	3265.4954	3465.0646

T1 diagnostic:

0.01448587

Structure:

ts_i17_p11

Coordinates:

6	0	-0.715331	-0.430690	0.100316
6	0	0.507014	0.384885	-0.065139
6	0	1.744499	-0.157828	-0.123644
6	0	-1.940449	-0.004243	-0.099134
1	0	-0.553251	-1.470807	0.387505
1	0	0.539418	1.148200	1.713721
1	0	0.361967	1.416974	-0.368606
1	0	1.910694	-1.208612	0.087104
1	0	2.616126	0.450368	-0.330564
1	0	-2.449357	0.911134	-0.363557

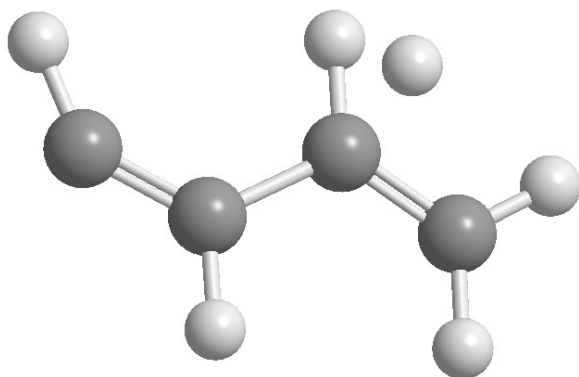
Frequencies:

-776.3810	140.1052	294.2040
353.0084	419.0616	488.4108
581.8998	709.9397	824.7100
890.2790	908.2206	927.0947
1037.7670	1142.6316	1259.6764
1298.7687	1430.6942	1589.1299
1658.9548	3089.0609	3139.3437
3156.1219	3231.1710	3237.1029

T1 diagnostic:

0.01777717

Structure:



ts_i2_p3**Coordinates:**

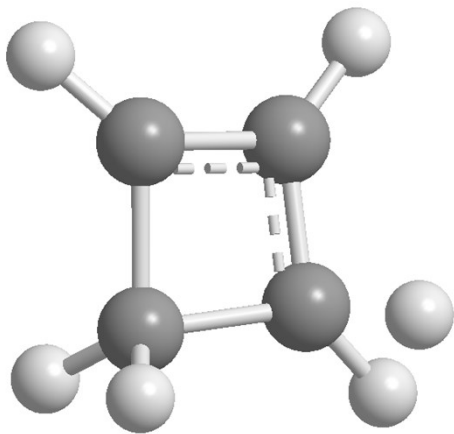
6	0	0.591060	-0.777009	-0.094297
6	0	-0.511500	0.951363	0.157923
6	0	-0.930700	-0.502456	-0.082896
6	0	0.900509	0.560705	-0.091914
1	0	0.690201	-1.083081	1.583154
1	0	1.160191	-1.655920	-0.371256
1	0	-1.045552	1.878013	-0.017904
1	0	-1.530564	-0.994005	0.682890
1	0	-1.399438	-0.653784	-1.062429
1	0	1.828955	1.113161	-0.147351

Frequencies:

-1401.5098	230.7278	478.4028
535.6283	578.9306	781.1706
861.7795	891.4049	901.5583
946.0631	993.1037	995.5171
1094.0163	1131.2555	1200.5240
1219.8673	1311.3751	1471.4734
1497.5309	3022.3848	3101.7373

T1 diagnostic:

0.01731323

Structure:

Products:**p1****Coordinates:**

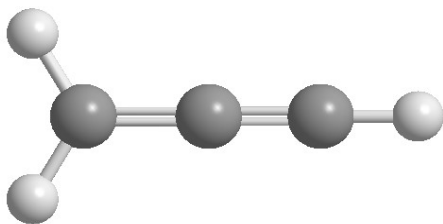
6	0	1.337877	0.000046	0.000000
6	0	-1.251445	0.000068	0.000000
6	0	0.115801	-0.000257	0.000000
1	0	2.400101	0.000303	0.000000
1	0	-1.807074	-0.929671	0.000000
1	0	-1.806424	0.930229	0.000000

Frequencies:

352.0587	403.2413	468.9117
638.0514	681.5445	1031.4560
1089.0208	1455.2216	2011.0652
3139.3441	3230.0155	3467.5978

T1 diagnostic:

0.02246237

Structure:**CH₃****Coordinates:**

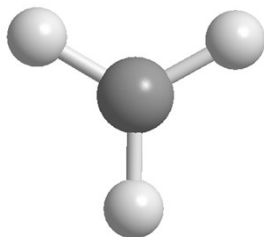
6	0	-0.000002	0.000033	0.000250
1	0	0.943833	0.525993	-0.000501
1	0	-0.927559	0.554166	-0.000501
1	0	-0.016265	-1.080354	-0.000501

Frequencies:

505.5167	1403.0954	1403.3366
3103.8390	3282.8008	3283.0332

T1 diagnostic:

0.00632781

Structure:

p2

Coordinates:

6	0	0.680142	-0.499038	-0.000253
6	0	-1.880097	0.175676	-0.000087
6	0	1.757209	0.384390	0.000051
6	0	-0.623421	-0.151989	0.000370
1	0	0.895202	-1.567144	-0.000052
1	0	-2.437866	0.321693	0.924543
1	0	-2.436847	0.322519	-0.925207
1	0	1.603420	1.455752	0.000310
1	0	2.773087	0.012945	-0.000081

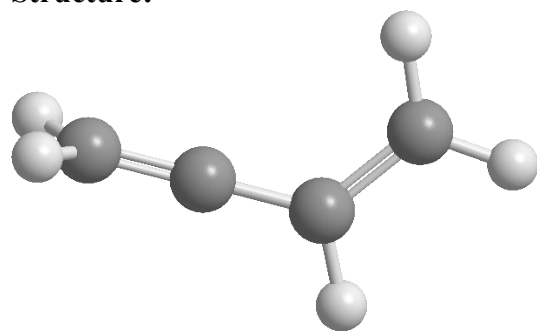
Frequencies:

206.6307	213.6943	495.6660
524.8988	572.8181	742.1307
883.8601	907.2155	937.3948
980.9657	1090.2621	1194.3130
1376.9796	1449.1406	1492.7414
1909.4119	3068.1769	3111.1444
3126.5600	3151.8872	3252.1375

T1 diagnostic:

0.02167960

Structure:



p3

Coordinates:

6	0	0.089673	-1.018801	-0.000281
6	0	0.089880	1.018722	0.000206
6	0	-1.056156	0.000147	-0.000050
6	0	1.044610	-0.000138	-0.000021
1	0	0.124420	-2.099223	0.001206
1	0	0.125095	2.099136	-0.000126
1	0	-1.692792	0.000146	0.890955
1	0	-1.692856	0.000353	-0.890983
1	0	2.128089	0.000009	-0.000181

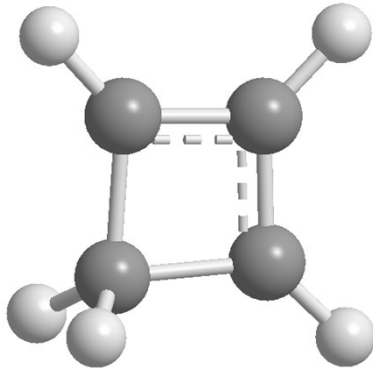
Frequencies:

388.8541	539.2878	546.3885
868.0196	900.7816	911.6799
928.3615	956.5014	1003.8473
1078.5038	1170.5143	1187.9422
1221.2682	1328.1151	1435.4872
1484.3550	3024.2008	3061.3873
3182.5921	3213.5472	3226.3920

T1 diagnostic:

0.01059734

Structure:



p4**Coordinates:**

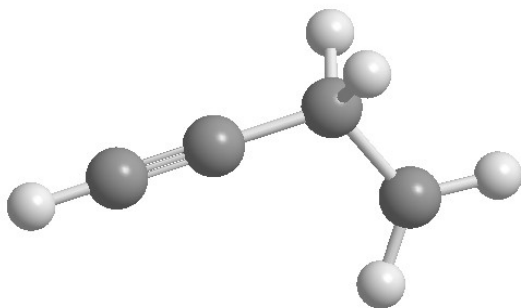
6	0	0.619158	0.591691	0.006437
6	0	-1.912300	-0.234333	-0.004501
6	0	1.625282	-0.516452	-0.006789
6	0	-0.771804	0.142061	-0.000236
1	0	0.778034	1.236412	0.886351
1	0	0.782074	1.258843	-0.854261
1	0	-2.921698	-0.564893	-0.009077
1	0	2.680239	-0.277479	-0.050267
1	0	1.319331	-1.550688	0.057787

Frequencies:

20.8139	207.2871	317.2615
434.5319	525.7910	660.9291
680.2578	835.2188	877.4759
1044.8985	1082.9128	1195.4694
1343.0393	1446.4882	1454.0448
2227.2005	2949.9647	2966.7259
3150.0104	3265.6817	3477.9618

T1 diagnostic:

0.01221152

Structure:

p5

Coordinates:

6	0	-1.064792	-0.195281	-0.000035
6	0	1.095911	-0.121883	0.000008
6	0	0.006940	0.958972	-0.000011
6	0	0.169927	-1.073025	0.000017
1	0	-1.689841	-0.250303	-0.893043
1	0	-1.689690	-0.250224	0.893092
1	0	2.175123	-0.077694	-0.000127
1	0	-0.021790	1.582615	0.898097
1	0	-0.021716	1.582906	-0.897891

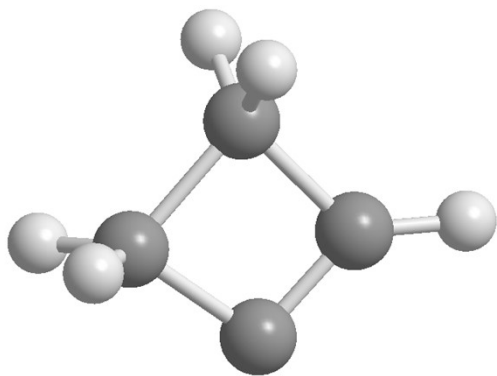
Frequencies:

324.3959	710.8885	824.7443
837.0533	867.6593	891.8622
999.9795	1029.7908	1063.0032
1123.9242	1155.5154	1190.4586
1226.7162	1462.0573	1481.3535
1610.9392	3022.7127	3060.9548
3081.1767	3111.2933	3227.0881

T1 diagnostic:

0.01479583

Structure:



p6

Coordinates:

6	0	0.073478	-0.781933	0.224050
6	0	0.073501	0.782441	0.223553
6	0	-1.121015	-0.000249	-0.237684
6	0	1.129975	-0.000225	-0.410210
1	0	0.119546	-1.420965	1.095917
1	0	0.119509	1.422476	1.094681
1	0	-1.993276	-0.000201	0.411425
1	0	-1.350176	-0.000648	-1.301592
1	0	2.168765	-0.000870	-0.098681

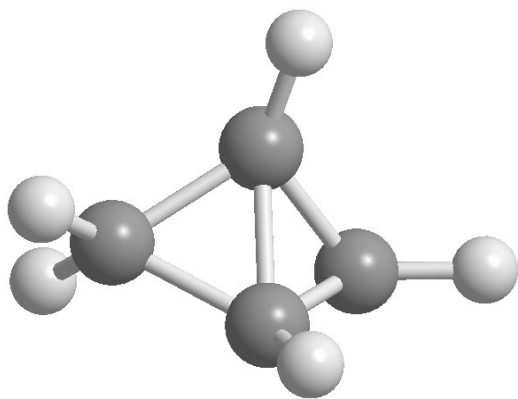
Frequencies:

464.0596	696.9440	736.8628
797.1126	858.2166	872.9272
939.7232	995.4540	1048.5604
1113.1085	1136.3631	1169.7123
1211.2452	1262.3405	1361.0674
1506.0969	3073.2350	3156.5087
3164.5340	3184.6025	3199.5122

T1 diagnostic:

0.01515770

Structure:



p7

Coordinates:

6	0	1.163040	-0.215075	-0.176811
6	0	-1.163039	-0.215077	-0.176811
6	0	0.000003	0.767666	-0.123680
6	0	-0.000003	-0.401278	0.733013
1	0	2.085612	0.131060	0.279516
1	0	1.300124	-0.860119	-1.047465
1	0	-2.085612	0.131067	0.279509
1	0	-1.300124	-0.860120	-1.047466
1	0	-0.000011	1.840689	0.001643

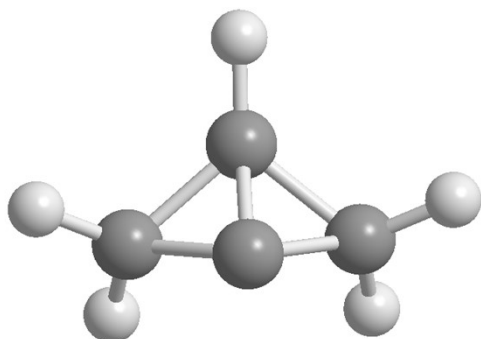
Frequencies:

381.7692	684.7724	724.6821
726.2790	896.9880	926.9857
1021.8669	1062.5527	1063.0037
1098.2674	1111.9890	1121.2364
1238.2426	1315.2765	1489.4408
1532.8067	3044.0914	3046.0219
3161.1482	3162.2743	3200.8997

T1 diagnostic:

0.01533765

Structure:



p8

Coordinates:

6	0	-0.514734	0.000236	-0.006801
6	0	2.077487	-0.000072	0.002008
6	0	-1.968457	-0.000018	0.001462
6	0	0.709588	0.000045	-0.001410
1	0	2.635851	-0.928666	0.003299
1	0	2.636013	0.928424	0.003334
1	0	-2.368872	0.895166	-0.484419
1	0	-2.368662	-0.875240	-0.519835
1	0	-2.357633	-0.020824	1.026063

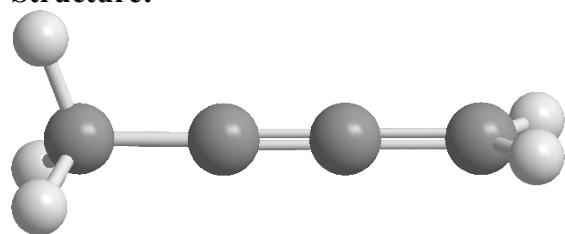
Frequencies:

8.8508	178.4962	205.8020
383.1552	412.4629	667.8948
772.6637	1029.6134	1030.3645
1052.1175	1262.0802	1414.4479
1465.0832	1472.8867	1473.8399
2147.5758	3006.6066	3056.0581
3072.8524	3132.6092	3219.4616

T1 diagnostic:

0.01943189

Structure:



p9

Coordinates:

6	0	-0.497269	0.566606	0.000069
6	0	1.971001	-0.229736	-0.000071
6	0	-1.670629	-0.364695	-0.000003
6	0	0.809162	0.148269	-0.000005
1	0	-0.690899	1.635438	0.000228
1	0	2.981944	-0.554980	-0.000130
1	0	-1.353653	-1.408117	-0.000447
1	0	-2.305288	-0.197826	0.879204
1	0	-2.305693	-0.197178	-0.878789

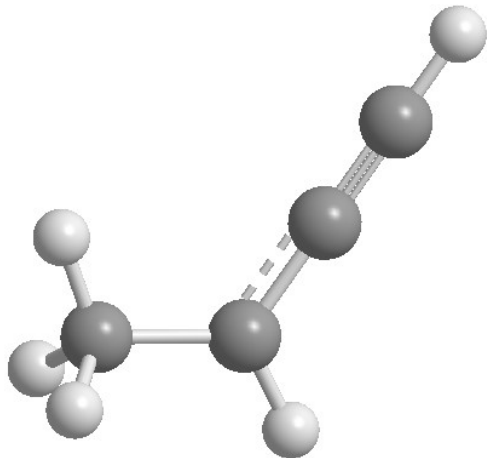
Frequencies:

86.6816	211.1466	380.8991
435.0636	551.8772	597.8897
645.2805	867.6401	1006.2219
1097.7751	1151.2795	1389.0272
1403.4653	1476.2441	1494.1125
2014.8518	2998.2720	3034.0446
3111.9719	3147.7451	3469.0316

T1 diagnostic:

0.01909827

Structure:



p10**Coordinates:**

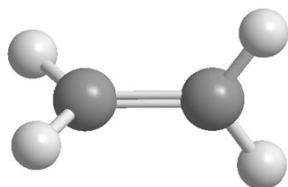
6	0	0.723636	0.000039	0.000050
6	0	-0.723600	-0.000147	-0.000007
1	0	1.297161	0.924171	0.026302
1	0	1.297280	-0.924115	-0.026498
1	0	-1.297364	-0.026103	0.924091
1	0	-1.297293	0.026699	-0.924149

Frequencies:

419.6720	420.2772	716.0765
924.3732	924.4777	1134.0214
1422.6992	1442.1996	3078.2764
3084.3752	3158.2022	3158.7868

T1 diagnostic:

0.01150474

Structure:**C₂H₂****Coordinates:**

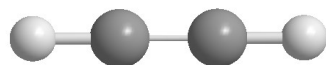
6	0	0.000000	0.000000	0.599145
6	0	0.000000	0.000000	-0.599145
1	0	0.000000	0.000000	1.662083
1	0	0.000000	0.000000	-1.662083

Frequencies:

642.6113	642.6113	773.3022
773.3022	2068.9225	3420.0316
3522.8699		

T1 diagnostic:

0.01364926

Structure:

p11

Coordinates:

6	0	0.690381	-0.331280	0.000081
6	0	-1.772241	-0.142673	-0.000256
6	0	-0.561659	0.422683	0.000271
6	0	1.898078	0.191400	-0.000170
1	0	0.592999	-1.423806	0.000621
1	0	-1.896708	-1.221019	-0.000040
1	0	-2.676125	0.454195	-0.000064
1	0	-0.467778	1.504765	0.000183
1	0	2.920257	-0.154920	-0.000256

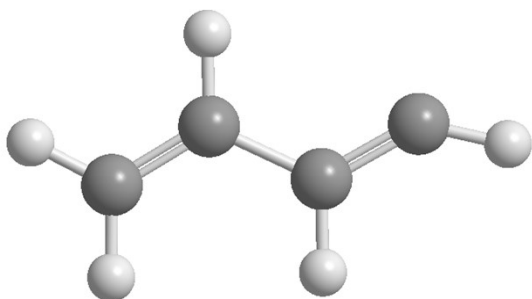
Frequencies:

178.6591	301.7845	513.6244
563.5789	727.2268	787.5182
862.4148	937.9832	948.4884
1031.0038	1174.8207	1252.1883
1317.0591	1443.9915	1631.4801
1684.2449	3017.1940	3133.3350
3154.1607	3221.3873	3246.7275

T1 diagnostic:

0.01480055

Structure:



p12**Coordinates:**

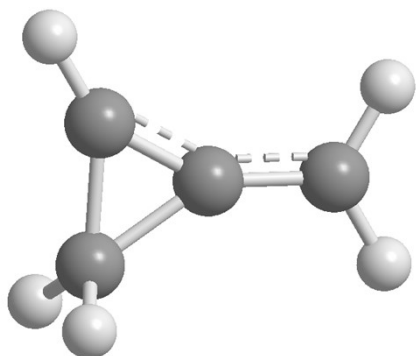
6	0	0.263330	0.057476	0.000455
6	0	-0.854572	0.811203	0.000370
6	0	-1.062591	-0.665752	-0.000203
6	0	1.617148	-0.071742	-0.000103
1	0	-1.325405	1.778942	-0.001659
1	0	-1.400368	-1.161041	0.912178
1	0	-1.399940	-1.160892	-0.912818
1	0	2.257982	0.802713	-0.000715
1	0	2.087839	-1.046830	-0.000098

Frequencies:

314.5307	349.8550	443.8908
557.0672	724.8479	791.9306
896.8294	982.6252	1030.8723
1032.0528	1069.1943	1117.1304
1189.8163	1454.3528	1492.1737
1600.9666	3028.7583	3089.1637
3135.7267	3229.1012	3265.5176

T1 diagnostic:

0.02257845

Structure:

p13

Coordinates:

6	0	0.405372	-0.048002	0.000536
6	0	-0.838203	0.790204	-0.000108
6	0	-0.910717	-0.727982	-0.000084
6	0	1.687457	-0.131071	-0.000223
1	0	-1.085460	1.317823	-0.915524
1	0	-1.087018	1.317522	0.915081
1	0	-1.221784	-1.224436	0.913814
1	0	-1.220462	-1.224242	-0.914563
1	0	2.551272	0.514442	0.000468

Frequencies:

289.9374	330.3128	651.8277
741.2720	753.3088	773.0268
856.2001	877.3099	1033.1508
1062.1188	1066.9699	1094.4847
1174.4588	1448.2560	1469.9930
1792.1111	3101.3972	3105.3261
3179.2351	3195.3956	3250.0011

T1 diagnostic:

0.01792156

Structure:

