Harmonic frequencies (cm**-1), IR intensities (KM/Mole), Raman scattering activities (A**4/AMU), depolarization ratios for plane and unpolarized incident light, reduced masses (AMU), force constants (mDyne/A), and normal coordinates:

	1			2			3		
	B1			B2			A1		
Frequencies --	1335.3953			1383.4047			1679.2619		
Red. masses --	1.3687			1.3440			1.1038		
Frc consts --	1.4380			1.5154			1.8340		
IR Inten --	0.3735			23.1245			8.6181		
Raman Activ --	0.7608			4.5167			12.8384		
Depolar (P) --	0.7500			0.7500			0.5909		
Depolar (U) --	0.8571			0.8571			0.7429		
Atom AN	X	Y	Z	X	Y	Z	X	Y	Z
1 6	0.17	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
2 8	-0.04	0.00	0.00	0.00	-0.08	0.00	0.00	0.00	0.08
3 1	-0.70	0.00	0.00	0.00	-0.25	-0.65	0.00	-0.35	-0.61
4 1	-0.70	0.00	0.00	0.00	-0.25	0.65	0.00	0.35	-0.61

	4			5			6		
	A1			A1			B2		
Frequencies --	2027.5415			3161.4181			3233.7383		
Red. masses --	7.2562			1.0490			1.1206		
Frc consts --	17.5752			6.1772			6.9041		
IR Inten --	150.0223			49.5917			135.4759		
Raman Activ --	8.1287			137.5987			58.1798		
Depolar (P) --	0.3281			0.1829			0.7500		
Depolar (U) --	0.4941			0.3093			0.8571		
Atom AN	X	Y	Z	X	Y	Z	X	Y	Z
1 6	0.00	0.00	0.58	0.00	0.00	0.06	0.00	0.10	0.00
2 8	0.00	0.00	-0.41	0.00	0.00	0.00	0.00	0.00	0.00
3 1	0.00	-0.46	-0.19	0.00	0.61	-0.35	0.00	-0.60	0.37
4 1	0.00	0.46	-0.19	0.00	-0.61	-0.35	0.00	-0.60	-0.37

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- Thermochemistry -
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Temperature   298.150 Kelvin.  Pressure   1.00000 Atm.
Atom  1 has atomic number  6 and mass  12.00000
Atom  2 has atomic number  8 and mass  15.99491
Atom  3 has atomic number  1 and mass   1.00783
Atom  4 has atomic number  1 and mass   1.00783
Molecular mass:    30.01056 amu.
Principal axes and moments of inertia in atomic units:
                          1         2         3
    EIGENVALUES --     6.15083  44.95434  51.10517
          X            0.00000   0.00000   1.00000
          Y            0.00000   1.00000   0.00000
          Z            1.00000   0.00000   0.00000
This molecule is an asymmetric top.
Rotational symmetry number  2.
Rotational temperatures (Kelvin)     14.08165     1.92671     1.69482
Rotational constants (GHZ):         293.41429    40.14609    35.31426
Zero-point vibrational energy      76685.2 (Joules/Mol)
                                   18.32820 (Kcal/Mol)
Vibrational temperatures:   1921.33  1990.41  2416.08  2917.18  4548.57
         (Kelvin)           4652.62

Zero-point correction=                           0.029208 (Hartree/Particle)
Thermal correction to Energy=                    0.032061
Thermal correction to Enthalpy=                  0.033005
Thermal correction to Gibbs Free Energy=         0.008251
Sum of electronic and zero-point Energies=           -113.837123
Sum of electronic and thermal Energies=              -113.834270
Sum of electronic and thermal Enthalpies=            -113.833326
Sum of electronic and thermal Free Energies=         -113.858080

                    E (Thermal)             CV                S
                     KCal/Mol        Cal/Mol-Kelvin    Cal/Mol-Kelvin
Total                   20.119              6.256             52.100
Electronic               0.000              0.000              0.000
Translational            0.889              2.981             36.130
Rotational               0.889              2.981             15.920
Vibrational             18.341              0.294              0.050
                      Q            Log10(Q)             Ln(Q)
Total Bot       0.160331D-03         -3.794983         -8.738271
Total V=0       0.436177D+10          9.639663         22.196144
Vib (Bot)       0.368765D-13        -13.433251        -30.931203
Vib (V=0)       0.100322D+01          0.001395          0.003212
Electronic      0.100000D+01          0.000000          0.000000
Translational   0.646199D+07          6.810366         15.681448
Rotational      0.672824D+03          2.827901          6.511484
***** Axes restored to original set *****
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