

Table 1: Freqs, ZPT=5721.6 (cm-1)

Mode	HARM	FUND	CORR
1	3832.2	3619.5	3619.5
2	3731.9	3532.4	3532.4
3	1618.5	1525.4	1584.2
4	913.5	858.0	858.0
5	888.1	818.3	818.3
6	696.4	657.8	657.8

Table 2: ABC (cm-1)

Constant	Value
A_0	9.659009
B_0	0.795297
C_0	0.768410
A_1	9.513865
B_1	0.796336
C_1	0.769840
A_2	9.483843
B_2	0.796657
C_2	0.769366
A_3	9.545067
B_3	0.798080
C_3	0.768440
A_4	9.929258
B_4	0.785740
C_4	0.760892
A_5	9.650853
B_5	0.788587
C_5	0.758964
A_6	9.656057
B_6	0.786146
C_6	0.760746

Constant	GHz	MHz	Table 3: Deltas		
			kHz	Hz	mHz
Δ_J	0.000	0.103	102.927	102927.435	102927435.000
Δ_K	0.012	11.706	11706.058	11706057.549	11706057549.200
Δ_{JK}	0.002	1.919	1919.335	1919335.084	1919335083.800
δ_J	0.000	0.004	4.050	4050.027	4050026.900
δ_K	0.001	0.740	739.559	739558.754	739558754.300

Constant	kHz	Hz	Table 4: Phis		
			mHz	uHz	nHz
Φ_J	-0.000	-0.006	-5.639	-5638.538	-5638538.471
Φ_K	3.560	3559.925	3559925.066	3559925066.000	3559925066000.000
Φ_{JK}	0.009	8.631	8630.846	8630846.323	8630846323.000
Φ_{KJ}	0.072	71.602	71602.089	71602089.220	71602089220.000
ϕ_j	0.000	0.022	21.725	21724.948	21724947.950
ϕ_{jk}	0.011	11.351	11350.873	11350873.200	11350873200.000
ϕ_k	2.274	2274.198	2274197.573	2274197573.000	2274197573000.000

Table 5: Geom (A or Deg)		
COORD	R(EQUIL)	R(ALPHA)
r(O1-O2)	1.5283027	1.5429019
r(O2-H3)	0.9651581	0.9716735
r(O2-H4)	0.9651581	0.9716735
\angle (O2-O1-H3)	100.6670973	100.0678971
\angle (O2-O1-H4)	100.6670973	100.0678971
\angle (O2-H3-H4)	106.9033367	107.4340913

Table 6: Fermi Resonances
 $2\nu_5=\nu_6+\nu_4=\nu_3$