

Species Tag:	17005	Name:	OH
Version:	1		Hydroxyl radical
Date:	Dec. 2000		X ² Π states
Contributor:	H. M. Pickett		v = 1,2
Lines Listed:	1765	Q(300.0)=	81.494
Freq. (GHz) <	3000	Q(225.0)=	60.296
Max. J:	50	Q(150.0)=	40.144
LOGSTR0=	-30.0	Q(75.00)=	22.754
LOGSTR1=	-35.0	Q(37.50)=	17.034
Isotope Corr.:	0.0	Q(18.75)=	16.004
Egy. (cm ⁻¹) >	3568.5	Q(9.375)=	15.929
μ _a =	1.66257, 1.6648	A=	
μ _b =		B=	534348.
μ _c =		C=	

The microwave data have been reported by T. Thissen, H. Spiecker, and P. Andresen, 1999, *J. Mol. Spect.* **200**, 277 and J. A. Coxon, K. V. L. N. Sastry, J. A. Austin, and D. H. Levy, 1979, *Can. J. Phys.*, **57**, 619. Infrared data for v = 1 are from T. Amano, 1984, *J. Mol. Spect.* **103**, 436. For v = 2, term values up to N = 7 from J. A. Coxon, 1980, *Can. J. Phys.* **58**, 993 were used as synthetic data with an uncertainty of 150 MHz. For both vibrational states, H was fixed to the values given in Coxon, 1980.

The calculation involved fitting the spectra along with v=0 data (see species 17001) to effective parameters for the ²Π states using a Hund's case (b) basis, but the quanta have been converted to Hund's case (a).

The dipole moments are from K. I. Peterson, G. T. Fraser, and W. A. Klemperer, 1984, *Can. J. Phys.* **62**, 1502.