

Species Tag:	17001	Name:	OH
Version:	4		Hydroxyl radical
Date:	Dec. 2000		X $^2\Pi$ states
Contributor:	H. M. Pickett		
Lines Listed:	1160	Q(300.0)=	81.494
Freq. (GHz) <	4000	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}) >	0.0	Q(9.375)=	15.929
μ_a =	1.65520	A=	
μ_b =		B=	556174.
μ_c =		C=	

The microwave data have been reported in R. A. Beaudet and R. L. Poynter, 1978, J. Phys. Chem. Ref. Data **7**, 311. Far-infrared data are from: G. A. Blake, J. Farhoomand, and H. M. Pickett, 1986, J. Mol. Spect. **115**, 226. J. Farhoomand, G. A. Blake, and H. M. Pickett, 1985, Astrophys. J. **291**, L19. J. M. Brown *et al.*, 1986, Astrophys. J. **307**, 410.

The mid-infrared lines of B. Lemoine, M. Bogey, and J. L. Destombes, 1985, Chem. Phys. Lett. **117**, 532, were also used in the fit. The calculation involved fitting the spectra to effective parameters for the two $^2\Pi$ states using a Hund's case (b) basis, but the quanta have been converted to Hund's case (a).

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