

Species Tag:	19006	Name:	17OD
Version:	1		Hydroxyl radical
Date:	June 2013		X $^2\Pi$ states
Contributor:	B. J. Drouin		v = 0,1
Lines Listed:	113226	Q(300.0)=	1282.1839
Freq. (GHz) <	59000	Q(225.0)=	925.57898
Max. J:	50	Q(150.0)=	587.92975
LOGSTR0=	-30.0	Q(75.00)=	295.01171
LOGSTR1=	-35.0	Q(37.50)=	185.81903
Isotope Corr.:	0.0	Q(18.75)=	150.11374
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	143.75033
μ_a =	1.65520	A=	
μ_b =		B=	556174.
μ_c =		C=	

The positions and energies are determined from a multi-isotopic analysis of ground and v < 2 data as described in B.J. Drouin.JCPA 2012, DOI: 10.1021/jp400923z and references therein.

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

state label	vibrational quantum number	isotopologue
0	0	$^{16}\text{O}^1\text{H}$
1	1	$^{16}\text{O}^1\text{H}$
2	2	$^{16}\text{O}^1\text{H}$
10	0	$^{17}\text{O}^1\text{H}$
11	1	$^{17}\text{O}^1\text{H}$
12	2	$^{17}\text{O}^1\text{H}$
20	0	$^{18}\text{O}^1\text{H}$
21	1	$^{18}\text{O}^1\text{H}$
22	2	$^{18}\text{O}^1\text{H}$
30	0	$^{16}\text{O}^2\text{H}$
31	1	$^{16}\text{O}^2\text{H}$
32	2	$^{16}\text{O}^2\text{H}$
40	0	$^{17}\text{O}^2\text{H}$
41	1	$^{17}\text{O}^2\text{H}$
42	2	$^{17}\text{O}^2\text{H}$
50	0	$^{18}\text{O}^2\text{H}$
51	1	$^{18}\text{O}^2\text{H}$
52	2	$^{18}\text{O}^2\text{H}$