

Species Tag:	90002	Name:	CH ₂ OHCOCH ₂ OH
Version:	1		Dihydroxyacetone
Date:	July 2004		
Contributor:	B. J. Drouin		gs, 3 vibs

Lines Listed:	79158	Q(300.0)=	379196.0025
Freq. (GHz) <	600	Q(225.0)=	222776.8738
Max. J:	110	Q(150.0)=	99270.0798
LOGSTR0=	-9.0	Q(75.00)=	23811.0644
LOGSTR1=	-7.0	Q(37.50)=	6786.8260
Isotope Corr.:	0.	Q(18.75)=	2322.6480
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	821.7158
μ_a =	0.00	A=	9801.294
μ_b =	1.767	B=	2051.5256
μ_c =	0.00	C=	1735.1648

The dipole moment for the ground state is reported by Lovas *et al.* 2003, J. Mol. Spec. **222**, 263-272, these values were assumed for all vibrational modes. The experimental frequencies are from Lovas *et al.* and Widicus *et al.*, 2004, J. Mol. Spec. **224**, 101-106. The ν quantum numbers assign the following: 0 is the ground state, 1 is ν_{30} , 2 is ν_{29} , 3 is ν_{28} , the labels and energies of these states are based on relative intensities of the millimeter and submillimeter wave spectra. The partition function is given by the sum over states, for ONLY those states given. Note that there are other states populated at 300 K not explicitly listed.