

Species Tag:	74003	Name:	C3H6O2
Version:	2		hydroxyacetone,
Date:	Oct. 2010		ground state
Contributor:	B. J. Drouin		
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Lines Listed:	108659	Q(300.0)=	320915.6160
Freq. (GHz) <	950	Q(225.0)=	212702.6459
Max. J:	100	Q(150.0)=	116581.0824
LOGSTR0=	-9.0	Q(75.00)=	40884.2530
LOGSTR1=	-9.0	Q(37.50)=	14189.0281
Isotope Corr.:	0.0	Q(18.75)=	4843.3009
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	1603.7821
μ_a =	2.22	A=	9894.643
μ_b =	2.16	B=	4005.900
μ_c =	0.0	C=	2862.968

Hydroxyacetone is a low barrier asymmetric top internal methyl rotor. The original work of Kattija-Ari, M., & Harmony, M. D. 1980, *Int. J. Quantum Chem. Symp.*, No. 14, 443, provided dipole moment components and initial A/E-ground state assignments. Brewster et al. *Ap. J.* 652:1787Y1795, 2006, Apponi et al. *Ap. J.* 643 L29, 2006 and Braakman et al. *J. Mol. Spec.* 264, 43-49, 2010, followed with high precision microwave millimeter-wave and submillimeter-wave data analyzed with the RAM. This catalog entry is based on the same data set presented in Braakman et al.

The partition function is calculated numerically for both A & E states up to J = 100.