

Species Tag:	54007	Name:	HCCCHO
Version:	1		Propynal or
Date:	Jan. 1996		Propiolic aldehyde
Contributor:	J. C. Pearson		

Lines Listed:	8407	Q(300.0)=	19562.548
Freq. (GHz) <	2000	Q(225.0)=	13737.474
Max. J:	50	Q(150.0)=	7922.005
LOGSTR0=	-8.0	Q(75.00)=	2856.363
LOGSTR1=	-8.0	Q(37.50)=	1010.200
Isotope Corr.:		Q(18.75)=	357.654
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	126.904
μ_a =	2.39	A=	68035.3
μ_b =	0.60	B=	4826.3
μ_c =		C=	4499.5

The experimental measurements were taken from: J. A. Howe and J. H. Goldstein, *J. Chem. Phys.* **23**, 1223 (1955). C. C. Costain and R. J. Morton, *J. Chem. Phys.* **31**, 389 (1959). G. Winnewisser, *J. Mol. Spect.* **46**, 16 (1973). The dipole moment comes from Howe and Goldstein, above.

Propynal is a known interstellar molecule first detected in 1988 by W. M. Irvine, R. D. Brown, D. M. Cragg, P. Friberg, P. D. Godfrey *et al.*, *Astrophys. J.* **335**, L89 (1988).