

Species Tag:	42008	Name:	CH2DCN
Version:	1		Acetonitrile,
Date:	June 1996		² H isotope
Contributor:	J. C. Pearson		
Lines Listed:	19256	Q(300.0)=	9187.2850
Freq. (GHz) <	6443	Q(225.0)=	5965.7607
Max. J:	99	Q(150.0)=	3246.9912
LOGSTR0=	-10.0	Q(75.00)=	1148.5542
LOGSTR1=	-10.0	Q(37.50)=	406.7303
Isotope Corr.:>	-3.347	Q(18.75)=	144.3101
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	51.3918
μ_a =	3.9201	A=	121074.5
μ_b =	0.1735	B=	8759.2
μ_c =		C=	8608.5

The experimental lines are from L. F. Thomas, E. J. Sherrard and J. Sheridan, 1955, Trans. Faraday Soc. **51**, 619; M. Le Guennec, G. Wlodarczak, J. Burie and J. Demaison, 1992, J. Mol. Spectrosc. **154**, 305.

The molecule was first observed in the interstellar medium by M. Gerin, F. Combs, G. Wlodarczak, T. Jacq, M Guelin, P Encrenaz, and C. Laurent, 1992, Astron. Astrophys. **259**) L35.

The dipole moment was calculated by axis rotation from the main isotope value reported by J. Gadhi, A. Lahrouni, J. Legrand, and J. Demaison, 1995, J. Chim. Phys. **92, 1984.**