Species Tag: Version: Date: Contributor:	42008 1 December 2009 H.S.P.Müller	Name:	CH2DCN Acetonitrile, ² H isotope
Lines Listed:	3002	Q(300.0) =	9187.6884
Freq. $(GHz) <$	1511	Q(225.0) =	5965.9555
Max. J:	88	Q(150.0) =	3247.0623
LOGSTR0 =	-7.0	Q(75.00) =	1148.5664
LOGSTR1 =	-5.7	Q(37.50) =	406.7322
Isotope Corr.:	-3.821	Q(18.75) =	144.3104
Egy. $(cm^{-1}) >$	0.0	Q(9.375) =	51.3918
$\mu_a =$	3.9201	A=	121074.5
$\mu_b =$	0.1735	B=	8759.2
$\mu_c =$		C =	8608.5

This entry is a combined CDMS and JPL entry. The latest combined fit has been reported by (1) H. S. P. Müller; B. J. Drouin, and J. C. Pearson, 2009, Astron. Astrophys. 506, 1487. This work provides new data between 277 and 1197 GHz. Additional data were taken from (2) M. Le Guennec, G. Wlodarczak, J. Burie, and J. Demaison, 1992, J. Mol. Spectrosc. 154, 305; and three microwave lines from (3) L. F. Thomas, E. J. Sherrard, and J. Sheridan, 1955, Trans. Faraday Soc. 51, 619. The low symmetry of the molecule causes a small b-dipole moment component. Some of the corresponding transitions were observed in (2). However, predictions for $K_a = 2 - 1$ should be viewed with caution. All higher K_a b-type transitions have been omitted. The predictions for the remainder of the transitions should be quite reliable. Note: Spin-statistics do not matter for this low symmetry (C_S) isotopolog. The dipole moment has been derived from the main isotopolog, see d041001.cat, taking into account the rotation of the inertial axes. The magnitude of the b-component should be taken with some care.