

Species Tag:	54003	Name:	C-13-H2CHCN
Version:	1		Acrylonitrile,
Date:	Oct. 2009		¹³ C isotope
Contributor:	Z. Kisiel		on atom 3
	B. J. Drouin		
Lines Listed:	28746	Q(300.0)=	27219.0891
Freq. (GHz) <	2000	Q(225.0)=	17658.7318
Max. J:	139	Q(150.0)=	9601.6408
LOGSTR0=	-9.0	Q(75.00)=	3391.9869
LOGSTR1=	-8.0	Q(37.50)=	1199.6100
Isotope Corr.:	-1.955	Q(18.75)=	424.7885
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	150.7284
μ_a =	3.68	A=	49195.205
μ_b =	1.25	B=	4837.580
μ_c =		C=	4398.242

The measurements were taken from:

- (1) J. M. Colmont, G. Wlodarczk, D. Priem, H. S. P. Müller, E. H. Tien, R. J. Richards, and M. C. L. Gerry, 1997, *J. Mol. Spect.* **181**.
- (2) H. S. P. Müller, A. Belloche, K. M. Menten, C. Comito, and P. Schilke, 2008, *J. Mol. Spectrosc.* 251 319.
- (3) Z. Kisiel, L. Pszczółkowski, B. J. Drouin, C. S. Brauer, S. Yu, J. C. Pearson, 2009, *J. Mol. Spect.* *in press*.

The partition function given here is for the ground state only.

The dipole moment is for the main isotopomer from M. Stolze and D. H. Sutter, 1985, *Z. Naturforsch.* **40a**, 998.