

Species Tag:	14003	Name:	13CH
Version:	1		¹³ C-Methyldiyne
Date:	April 2009		X ² Π states
Contributor:	B. J. Drouin		
	D. T. Halfen		
Lines Listed:	628	Q(300.0)=	243.0012
Freq. (GHz) <	1651	Q(225.0)=	183.6926
Max. J:	16	Q(150.0)=	124.6073
LOGSTR0=	-12.0	Q(75.00)=	66.1069
LOGSTR1=	-12.0	Q(37.50)=	37.7869
Isotope Corr.:	0.	Q(18.75)=	24.4237
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	17.9280
μ_a =	1.46	A=	
μ_b =		B=	422946.7
μ_c =		C=	

The laboratory spectra of Halfen D.T., *et al.* Ap. J. 687(1), 731-736, 2008, were combined with the data of McCarthy, M. C., Mohamed, S., Brown, J. M., and Thaddeus, P. 2006, Proc. Nat. Acad. Sci., 103, 12263, in a fit to a Hund's case (b) Hamiltonian with fine and hyperfine structure parameters. Additional hyperfine parameters improved the fit considerably and one rotational transition was excluded in the catalog analysis (see archive). The dipole moment for the main isotopomer was taken from D. J. Phelps and F. W. Dalby, 1966, Phys. Rev. Lett. **16**, 3.