

Species Tag:	13003	Name:	CH+
Version:	2		Methylidyne
Date:	Sept. 2009		X $^1\Sigma$
Contributor:	B. J. Drouin		
	J. C. Pearson		
Lines Listed:	9	Q(300.0)=	15.3503
Freq. (GHz) <	7400	Q(225.0)=	11.5904
Max. J:	9	Q(150.0)=	7.8376
LOGSTR0=	-9.0	Q(75.00)=	4.0969
LOGSTR1=		Q(37.50)=	2.2449
Isotope Corr.:	0.	Q(18.75)=	1.3621
Egy. (cm^{-1}) >	0.0	Q(9.375)=	1.0418
$\mu_a =$	1.6	A=	
$\mu_b =$		B=	417616.89
$\mu_c =$		C=	

There is only one reported pure rotational lines reported for CH⁺ from J. C. Pearson and B. J. Drouin, 2006, *Astrophys. J.*, 647, **L83**. Electronic spectra reported by A. Carrington and D. A. Ramsay, 1982, *Phys. Scripta.* **25**, 272, and R. Hakalla, R. Kopa, W. Szajna, and M. Zachwieja, 2006, *Eur. Phys. J. D* **38**, 481. allow a combined analysis which improves the predictive capability for the low J rotational transitions reported here. The dipole used is theoretically calculated by M. Cheng, J. M. Brown, P. Rosmus, R. Liguerrri, N. Komih, and E. G. Myers, 2007, *Phys. Rev. A* 75, Art. No. 012502.