

Species Tag:	38007	Name:	H ³⁷ Cl ⁺
Version:	1		Chloroniumyl cation
Date:	May. 2012		v = 0,1
Contributors:	H. Gupta B. J. Drouin		
Lines Listed:	779	Q(300.0)=	197.2359
Freq. (GHz) <	7500	Q(225.0)=	147.8291
Max. J:	40	Q(150.0)=	102.6078
LOGSTR0=	-8.0	Q(75.00)=	60.0006
LOGSTR1=	-10.0	Q(37.50)=	40.3538
Isotope Corr.:	-0.611	Q(18.75)=	33.1643
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	31.9492
μ_a =	1.75	A=	
μ_b =		B=	293003.82
μ_c =		C=	

The rotational spectra are reported in H. Gupta, B. J. Drouin, & J. C. Pearson, 2012, ApJ, **751**, L38 and the optical spectra in W. D. Sheasley, 1972, Ph.D. Dissertation, The Ohio State University; Ann Arbor, MI. The dipole moment (μ_0) was calculated by M. Cheng *et al.* 2007, Phys. Rev. A, **75**, 012502. The state identifiers v = 90 and v = 91 refer to the ground and first excited vibrational levels, respectively.