Species Tag:	38001	Name:	HCl-37
Version:	3		Hydrochloric acid,
Date:	May 2012		³⁷ Cl isotope
Contributor:	B.J. Drouin		
Lines Listed:	137	Q(300.0) =	81.517
Freq. $(GHz) <$	9746	Q(225.0) =	61.451
Max. J:	18	Q(150.0) =	41.405
LOGSTR0 =	-8.2	Q(75.00) =	21.402
LOGSTR1 =	-11.2	Q(37.50) =	11.452
Isotope Corr.:	-0.611	Q(18.75) =	6.590
Egy. $(cm^{-1}) >$	0.0	Q(9.375) =	4.491
$\mu_a =$	1.109	A=	
$\mu_b =$		B=	312519.12
$\mu_c =$		C=	

The experimental measurements were reported by I. G. Nolt *et al.*, 1987, J. Mol. Spect. **125**, 274. The dipole moment was measured by F. H. De Leeuw and A. Dymanus, 1971, 26th Symposium on Molecular Spectroscopy, Columbus, Ohio.

Version 3 of this catalog entry corrects a constant offset of 2 in the partition function. The tabulated values also include vibrational partionining, as reported in Fischer et al. JQSRT 82(1-4) 401-412, 2003. Additional values include Q(500 K) = 135.1771; Q(800 K) = 217.1088; and Q(1000 K) = 274.3246.