Species Tag: Version: Date: Contributor:	51002 3 Jan. 1991 E. A. Cohen	Name:	ClO Chlorine monoxide, X $^2\Pi$ states, $v=0$
Lines Listed:	2585	Q(300.0) =	3349.655
Freq. (GHz) <	2983	Q(225.0) =	2307.810
Max. J:	83	Q(150.0) =	1424.624
LOGSTR0 =	-10.0	Q(75.00) =	689.287
LOGSTR1 =	-11.5	Q(37.50) =	351.318
Isotope Corr.:	-0.122	Q(18.75) =	183.316
Egy. $(cm^{-1}) >$	0.0	Q(9.375) =	99.701
$\mu_a =$	1.2974	A=	
$\mu_b =$		B=	18601.791
$\mu_c =$		C=	

The experimental lines are from R. K. Kakar, E. A. Cohen, and M. Geller, 1978, J. Mol. Spect. **70**, 243, and E. A. Cohen, H. M. Pickett, and M. Geller, 1984, J. Mol. Spect. **106**, 430. The millimeter and submillimeter data were combined with the FT infrared data of J. B. Burkholder *et al.*, 1987, J. Mol. Spect. **124**, 139, in a simultaneous fit to both vibrational states. The partition function is a sum over the ground and first vibrational state up to F = 90 for both the $\Omega = 3/2$ and $\Omega = 1/2$ states. The dipole moment is from D. Yaron, K. Peterson, and W. Klemperer, 1988, J. Chem. Phys. **88**, 4702.