

Species Tag:	40007	Name:	MgO, $v = 0, 1$
Version:	1		Magnesium oxide,
Date:	Sep. 1997		X $^1\Sigma^+$
Contributor:	H. S. P. Müller		

Lines Listed:	44	Q(300.0)=	374.621
Freq. (GHz) <	1500	Q(225.0)=	276.000
Max. J:	44	Q(150.0)=	182.838
LOGSTR0=	-6.0	Q(75.00)=	91.495
LOGSTR1=	-3.5	Q(37.50)=	45.906
Isotope Corr.:	-0.1051	Q(18.75)=	23.120
Egy. ( $\text{cm}^{-1}$ ) >	0.0, 774.74	Q(9.375)=	11.731
$\mu_a =$	6.88	A=	
$\mu_b =$		B=	17149.38, 16989.58
$\mu_c =$		C=	

The lines of the  $v = 0, 1, 2$  were taken from (1) T. Törring and J. Hoefft, 1986, Chem. Phys. Lett. **126**, 477. Infrared transitions reported by (2) S. Civiš, H. G. Hedderich, and C. G. Blom, 1991, Chem. Phys. Lett. **176**, 489, were also used in the fit. The dipole moment is taken from an *ab initio* calculation by (3) P. W. Fowler and A. J. Sedlej, 1991, Mol. Phys. **73**, 43.