

Species Tag:	112002	Name:	C8O
Version:	1		Octacarbon monoxide
Date:	April 1996		X $^3\Sigma^-$
Contributor:	H. S. P. Müller		

Lines Listed:	644	Q(300.0)=	46470.4032
Freq. (GHz) <	207	Q(225.0)=	34777.1480
Max. J:	99	Q(150.0)=	23075.2173
LOGSTR0=	-9.9	Q(75.00)=	11375.8620
LOGSTR1=	-7.0	Q(37.50)=	5531.6130
Isotope Corr.:		Q(18.75)=	2619.3581
Egy. ( $\text{cm}^{-1}$ ) >	0.0	Q(9.375)=	1180.9848
$\mu_a$ =	4.629	A=	
$\mu_b$ =		B=	400.6418
$\mu_c$ =		C=	

The data were taken from Y. Ohshima, Y. Endo, and T. Ogata, 1995, J. Chem. Phys. **102** 1493.

The dipole moment is from an *ab initio* calculation: N. Moazzen-Ahmadi and F. Zerbetto, 1995, J. Chem. Phys. **103**, 6343.

The partition function has been calculated up to  $J = 360$  because of the low rotational constant.