Species Tag:	100001	Name:	C7O
Version:	1		Heptacarbon monoxide
Date:	May 1996		X $^1\Sigma^+$
Contributor:	H. S. P. Müller		
Lines Listed:	99	Q(300.0)=	10912.5313
Freq. (GHz) <	114	Q(225.0)=	8184.1697
Max. J:	99	Q(150.0)=	5455.9817
LOGSTR0=	-8.0	Q(75.00)=	2728.0359
LOGSTR1=	-3.5	Q(37.50)=	1364.1543
Isotope Corr.:		Q(18.75)=	682.2363
Egy. (cm^{-1}) >	0.0	Q(9.375)=	341.2831
μ_a =	4.417	A=	
μ_b =		B=	572.9410
μ_c =		C=	

The data were taken from T. Ogata, Y. Ohshima, and Y. Endo, 1995, J. Am. Chem. Soc. **117** 3593.

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.