

Species Tag:	47005	Name:	PO+
Version:	1		Phosphorus Oxide Ion
Date:	Dec. 1996		$nu=0,1,2,3,4$
Contributor:	J. C. Pearson		$^1\Sigma^+$

Lines Listed:	239	Q(300.0)=	266.6863
Freq. (GHz) <	2337	Q(225.0)=	199.8550
Max. J:	50	Q(150.0)=	133.3087
LOGSTR0=	-14.0	Q(75.00)=	66.8106
LOGSTR1=	-14.0	Q(37.50)=	33.5707
Isotope Corr.:	0.0	Q(18.75)=	16.9544
Egy. (cm^{-1}) >	0.0	Q(9.375)=	8.6499
$\mu_a =$	3.44	A=	
$\mu_b =$		B=	23593.5
$\mu_c =$		C=	

The data were taken from: R. H. Petrmichl, K. A. Peterson and R. C. Woods, 1990, J. Chem. Phys. **94**, 3504. Data through $nu=11$ was used in the analysis, but predictions were made only through $nu=4$. The vibrational energies were fixed to the values calculated from the Dunham relationships.

A dipole moment of 3.44 Debye was calculated by Petrmichl, Peterson and Woods. It has been assumed for all the vibrational states.