

Species Tag:	34003	Name:	PH3
Version:	3		Phosphine
Date:	Jan. 1991		
Contributor:	R. L. Poynter		
	H. M. Pickett		
Lines Listed:	728	Q(300.0)=	803.896
Freq. (GHz) <	5635	Q(225.0)=	527.351
Max. J:	27	Q(150.0)=	288.802
LOGSTR0=	-17.0	Q(75.00)=	103.086
LOGSTR1=	-10.0	Q(37.50)=	37.196
Isotope Corr.:	0.0	Q(18.75)=	13.916
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	5.796
μ_a =	0.000072*	A=	B
μ_b =		B=	133480.22
μ_c =	0.574	C=	117488.39

*centrifugally induced

The measured lines are taken from: D. Helms and W. Gordy, 1971, J. Mol. Spect. **66**, 206. F. Y. Chu and T. Oka, 1974, J. Chem. Phys. **60**, 4612. P. B. Davies, R. M. Newman, S. C. Wofsy, and W. Klemperer, 1971, J. Chem. Phys. **55**, 3564. A. F. Krupnov, A. A. Melnikov, and V. A. Skvortsov, 1979, Opt. Spectrosc. (USSR) **46** (5), 570. H. M. Pickett, R. L. Poynter, and E. A. Cohen, 1981, J. Quant. Spectrosc. Radiat. Transfer **26**, 197. S. P. Belov *et al.*, 1981, J. Mol. Spect. **90**, 579.

The dipole moment measured by P. B. Davies *et al.*, above, is $0.57395 \pm 0.0003D$. The sign of the K = 3, 6, 9 levels represents the parity under inversion.