

Species Tag:	18004	Name:	NH2D
Version:	1		Mono-deutero
Date:	Jan. 1981		ammonia
Contributor:	H. M. Pickett		

Lines Listed:	5036	Q(300.0)=	3790.531
Freq. (GHz) <	3000	Q(225.0)=	2408.795
Max. J:	14	Q(150.0)=	1293.302
LOGSTR0=	-10.0	Q(75.00)=	434.310
LOGSTR1=	-12.0	Q(37.50)=	136.993
Isotope Corr.:	-3.347	Q(18.75)=	40.439
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	13.240
μ_a =	-0.18	A=	290125.
μ_b =		B=	192194.
μ_c =	1.463	C=	140795.

The experimental lines were measured by F. C. DeLucia and P. Helminger, 1975, J. Mol. Spect. **54**, 200, and by E. A. Cohen and H. M. Pickett, 1982, J. Mol. Spect. **93**, 83. The dipole moments and quadrupole splitting were also determined by Cohen and Pickett. The Hamiltonian included terms up to the 8th power in angular momentum, as well as a $P_a P_c + P_c P_a$ interaction term. The relative sign of the dipoles is determinable and is important for intensities because of mixing by the interaction term.