

Species Tag:	64008	Name:	DNO3
Version:	1		² D - Nitric acid
Date:	Dec. 2005		
Contributor:	B. J. Drouin		

Lines Listed:	56528	Q(300.0)=	29491.0524
Freq. (GHz) <	2000	Q(225.0)=	19150.1609
Max. J:	99	Q(150.0)=	10422.2834
LOGSTR0=	-10.0	Q(75.00)=	3685.7990
LOGSTR1=	-8.0	Q(37.50)=	1304.5589
Isotope Corr.:	-3.182	Q(18.75)=	462.3798
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	164.3172
μ_a =	2.090	A=	12970.64807
μ_b =	0.590	B=	11312.64757
μ_c =		C=	6034.94022

Frequencies from D. J. Millen and J. R. Morton, 1960, *J. Chem. Soc.* 1523; A. P. Cox, M. C. Ellis, C. J. Attfield, A. C. Ferris, *J. Mol. Struct.* 320, 91-106, (1994). S. G. Chou, D. T. Petkie, R. A. H. Butler, C. E. Miller, *J. Mol. Spec.* 211(2), 284-285, (2002); and B. J. Drouin *et. al*, *J. Mol. Spec. accepted Dec. 2005* are fit. The dipole moment is assumed to be the same as the ground state and was taken from the remeasurements report by A. P. Cox and J. M. Riveros, 1965, *J. Chem. Phys.* **42**, 3106 for the main isotopomer and rotated into the principle axis system for DONO₂. The vibrational partitioning has been ignored in the catalog prediction.