

Species Tag:	3001	Name:	HD
Version:	3		Mono-deuterated
Date:	July 2011		molecular hydrogen
Contributor:	B.J. Drouin		

Lines Listed:	2	Q(300.0)=	5.016
Freq. (GHz) <	5332	Q(225.0)=	3.858
Max. J:	2	Q(150.0)=	2.701
LOGSTR0=	-5.6	Q(75.00)=	1.571
LOGSTR1=	-7.5	Q(37.50)=	1.098
Isotope Corr.:	-3.523	Q(18.75)=	1.003
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	1.000
μ_a =	0.000855971	A=	
μ_b =		B=	1339100.
μ_c =		C=	

The dipole moment, and its centrifugal distortion of 0.27 μ D are derived from the theoretical values reported by of Pachucki and Komasa Phys. Rev. A 78, 052503, 2008. The $J = 1 \leftarrow 0$ frequency has been measured by B. J. Drouin *et al.*, J. Mol. Struct *in press*, 2011. The $J = 2 \leftarrow 1$ frequency was derived from the difference between theoretically determined energy levels reported by Pachucki and Komasa Phys. Chem. Chem. Phys. 12, 9188-9196, 2010.