

H2+ excited States

pi	nu 0	e	h bar	m sub e	a0	c	mp	
3.1415927E+00	1.2566371E-06	1.6021892E-19	1.0545888E-34	9.1095345E-31	5.2917706E-11	2.9979246E+08	1.6726486E-27	
	epsilon 0	uB			aH		md	
	8.85E-12	9.27E-24			5.29465E-11		3.3435860E-27	
					aD			
					5.29321E-11			
a (m)	b (m)	c' (m)	2c' (m)	eccentricity				
2.11786E-10	1.83412E-10	1.05893E-10	2.11786E-10	0.50000				
4.00000	3.46599	2.00109	4.00218					
n								
2								
1.00000								
0.5								
	Ve (eV)	Vp (eV)	T (eV)	Vm (eV)	Et (eV)			
Evib (0) (eV)	-14.93937	3.39960	7.46562	0.00000	-4.07415			
6.6535007E-02								
eV/cm^-1	w (s-1)	EK (eV)						
0.000123985	5.16345E+15	3.39867						
kcal/mole/eV								
4.336340E-02						12.201795		
kJ/mole/eV								
0.010364101								
	EDoppler (eV)	H-H Eocs (eV)	H-H ET (eV)	delta transition			H-H ED (eV)	ED (kcal/mole)
	0.01486	-0.01841	4.05574	12.21332			-9.54266	-220.06248
					E H (Eq. (1.233) and Eq. (1.229)) (eV)			
					13.59839804			
					ED (Eq. (12.198) and Eq. (12.269)) (eV)			
					2.653754822			
pi	nu 0	e	h bar	m sub e	a0	c	mp	
3.1415927E+00	1.2566371E-06	1.6021892E-19	1.0545888E-34	9.1095345E-31	5.2917706E-11	2.9979246E+08	1.6726486E-27	
	epsilon 0				aH		md	
	8.85E-12				5.29465E-11		3.3435860E-27	
					aD			
		H2+			5.29321E-11			
			w(0) Eq. (12.145) (s-1)					
			24.28715465					
			7.19619E+00					
		k(0) (Eq. 12.162))	8.545480339	E vib (0) Eq. (12.163) (e	A(0) (Eq. (12.164)) (m)	A (Eq. (12.164)) (a0)		
			1.01084E+14	6.6535007E-02	1.24873E-11	0.235975962		
						Ac' (Eq. (12.165))		
			17.3806188			0.117987981	ecent XA	
			2.57491E+00					
			7.402856154	Evib(1) (Eq. (12.166)) (eV)				
			9.40832E+13	0.061927226				