

## H2 triplet states

				epsilon 0	e	h bar	m sub e	a0	c				
				8.85419E-12	1.60219E-19	1.05459E-34	9.10953E-31	5.29177E-11	2.99792E+08				
Triplet States													
n	m	l	a(a0)	a (m)	b (m)	c' (m)	2c' (m)	eccentricity	Ve (eV)	Vp (eV)	T (eV)	Vm (eV)	Et (eV)
2	1	1	3.02860	1.60266E-10	1.31165E-10	9.20919E-11	1.84184E-10	0.57462	-5.11612	0	1.68927	-0.42232	-3.84916
2	1	0	3.33333	1.76392E-10	1.47580E-10	9.66141E-11	1.93228E-10	0.54772	-4.58402	0	1.37520	-0.34380	-3.55261
3	4	1	3.02860	1.60266E-10	1.13859E-10	1.12789E-10	2.25578E-10	0.70376	-3.72248	0	1.84367	-0.30728	-2.18609
3	2	2	4.63043	2.45032E-10	2.01471E-10	1.39462E-10	2.78925E-10	0.56916	-2.22432	0	0.72056	-0.12009	-1.62386
3	2	0	4.66667	2.46949E-10	2.03426E-10	1.40007E-10	2.80014E-10	0.56695	-2.20446	0	0.70858	-0.11810	-1.61398
3	1	1	5.02860	2.66102E-10	2.22908E-10	1.45335E-10	2.90670E-10	0.54616	-2.02419	0	0.60380	-0.10063	-1.52102
3	1	2	5.29710	2.80310E-10	2.37326E-10	1.49165E-10	2.98329E-10	0.53214	-1.90861	0	0.54047	-0.09008	-1.45822
3	1	0	5.33333	2.82228E-10	2.39270E-10	1.49674E-10	2.99348E-10	0.53033	-1.89402	0	0.53269	-0.08878	-1.45011
4	4	1	5.02860	2.66102E-10	2.06512E-10	1.67818E-10	3.35637E-10	0.63065	-1.59277	0	0.63349	-0.07919	-1.03847
4	3	1	5.69526	3.01380E-10	2.42762E-10	1.78596E-10	3.57193E-10	0.59260	-1.37400	0	0.48251	-0.06031	-0.95181
4	3	2	5.96376	3.15589E-10	2.57285E-10	1.82758E-10	3.65516E-10	0.57910	-1.30225	0	0.43672	-0.05459	-0.92012
4	2	1	6.36193	3.36659E-10	2.78763E-10	1.88760E-10	3.77520E-10	0.56069	-1.20882	0	0.38002	-0.04750	-0.87630
4	2	0	6.66667	3.52785E-10	2.95161E-10	1.93228E-10	3.86456E-10	0.54772	-1.14600	0	0.34380	-0.04298	-0.84518
4	1	1	7.02860	3.71937E-10	3.14600E-10	1.98404E-10	3.96808E-10	0.53343	-1.07948	0	0.30717	-0.03840	-0.81070
4	1	0	7.33333	3.88063E-10	3.30941E-10	2.02659E-10	4.05319E-10	0.52223	-1.02923	0	0.28070	-0.03509	-0.78362
5	3	1	7.69526	4.07216E-10	3.34593E-10	2.32104E-10	4.64208E-10	0.56998	-0.80341	0	0.26101	-0.02610	-0.56850
5	3	2	7.96376	4.21424E-10	3.49065E-10	2.36119E-10	4.72237E-10	0.56029	-0.77238	0	0.24247	-0.02425	-0.55416
5	2	1	8.36193	4.42494E-10	3.70488E-10	2.41949E-10	4.83898E-10	0.54679	-0.73059	0	0.21843	-0.02184	-0.53401
6	-4	0	14.66667	7.76126E-10	6.92214E-10	3.51016E-10	7.02033E-10	0.45227	-0.33334	0	0.06818	-0.00568	-0.27084

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Evib (0) (eV)	w (s-1)	EK (eV)	EDoppler (eV)	H2 Eocs (eV)	H2 IP 1 (eV)	Cal. Te (eV)	Exp. Te (eV)	State	Exp. Te (cm^-1)	Relative Error
0.28479	7.30819E+15	4.81038	1.67016E-02	-0.12570	15.424814	11.7013	11.87084	c	95744	0.01428
0.28479	7.30819E+15	4.81038	1.54149E-02	-0.12698	15.424814	11.9992	11.89489	a	95938	-0.00877
0.28479	3.24809E+15	2.13795	6.32367E-03	-0.13607	15.424814	13.3748	13.36275	e	107777	-0.00090
0.28479	3.24809E+15	2.13795	4.69732E-03	-0.13770	15.424814	13.9387	13.97338	d	112702	0.00249
0.28479	3.24809E+15	2.13795	4.66874E-03	-0.13773	15.424814	13.9486	13.98181	h	112770	0.00238
0.28479	3.24809E+15	2.13795	4.39984E-03	-0.13800	15.424814	14.0418	13.98268	g	112777	-0.00423
0.28479	3.24809E+15	2.13795	4.21816E-03	-0.13818	15.424814	14.1048	14.01132	i	113008	-0.00667
0.28479	3.24809E+15	2.13795	4.19471E-03	-0.13820	15.424814	14.1129	14.03488	j	113198	-0.00556
0.28479	1.82705E+15	1.20259	2.25298E-03	-0.14014	15.424814	14.5265	14.47007	f	116708	-0.00390
0.28479	1.82705E+15	1.20259	2.06497E-03	-0.14033	15.424814	14.6133	14.66658	v	118293	0.00363
0.28479	1.82705E+15	1.20259	1.99621E-03	-0.14040	15.424814	14.6451	14.67625	k	118371	0.00212
0.28479	1.82705E+15	1.20259	1.90115E-03	-0.14050	15.424814	14.6890	14.68915	p	118475	0.00001
0.28479	1.82705E+15	1.20259	1.83363E-03	-0.14056	15.424814	14.7202	14.69250	s	118502	-0.00189
0.28479	1.82705E+15	1.20259	1.75884E-03	-0.14064	15.424814	14.7547	14.70155	r	118575	-0.00362
0.28479	1.82705E+15	1.20259	1.70007E-03	-0.14070	15.424814	14.7819	14.79379	m	119319	0.00080
0.28479	1.16931E+15	0.76966	9.86698E-04	-0.14141	15.424814	14.9977	14.99651	n	120954	-0.00008
0.28479	1.16931E+15	0.76966	9.61808E-04	-0.14143	15.424814	15.0121	15.01449	q	121099	0.00016
0.28479	1.16931E+15	0.76966	9.26832E-04	-0.14147	15.424814	15.0323	15.03879	t	121295	0.00043
0.28479	8.12021E+14	0.53449	3.91731E-04	-0.14201	15.424814	15.2960	15.31031	u	123485	0.00094
									Avg. Rel. Error	-0.00044