

CO<sub>2</sub> Ref.: <http://cea.grc.nasa.gov/>

T K	C <sub>p</sub> J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H <sub>f</sub> kJ/mol	log K
0	0.	-9.365	0.	INFINITE	-402.875	-393.142	INFINITE
200	32.361	-3.412	199.969	217.032	-396.922	-393.389	102.9182
220	33.332	-2.756	203.099	215.624	-396.266	-393.422	93.5778
240	34.330	-2.079	206.042	214.704	-395.589	-393.451	85.7935
260	35.321	-1.382	208.829	214.146	-394.892	-393.475	79.2064
280	36.288	-0.666	211.482	213.862	-394.176	-393.495	73.5599
298.15	37.135	0.000	213.787	213.787	-393.510	-393.510	69.0913
300	37.220	0.069	214.017	213.788	-393.441	-393.511	68.6661
320	38.115	0.822	216.448	213.879	-392.688	-393.525	64.3839
340	38.972	1.593	218.785	214.099	-391.917	-393.538	60.6053
360	39.792	2.381	221.036	214.422	-391.129	-393.549	57.2465
380	40.576	3.185	223.209	214.828	-390.325	-393.560	54.2411
400	41.325	4.004	225.309	215.300	-389.506	-393.572	51.5362
420	42.042	4.837	227.343	215.825	-388.673	-393.585	49.0888
440	42.729	5.685	229.314	216.394	-387.825	-393.600	46.8639
460	43.387	6.546	231.228	216.997	-386.964	-393.616	44.8323
480	44.018	7.420	233.088	217.629	-386.090	-393.634	42.9700
500	44.624	8.307	234.898	218.284	-385.203	-393.655	41.2565
520	45.207	9.205	236.659	218.957	-384.305	-393.678	39.6748
540	45.766	10.115	238.376	219.645	-383.395	-393.703	38.2101
560	46.305	11.036	240.050	220.344	-382.474	-393.730	36.8500
580	46.823	11.967	241.684	221.051	-381.543	-393.759	35.5836
600	47.323	12.909	243.280	221.766	-380.601	-393.790	34.4015
620	47.804	13.860	244.840	222.485	-379.650	-393.823	33.2956
640	48.267	14.821	246.365	223.208	-378.689	-393.858	32.2587
660	48.714	15.790	247.857	223.932	-377.720	-393.894	31.2846
680	49.145	16.769	249.318	224.657	-376.741	-393.931	30.3677
700	49.561	17.756	250.748	225.382	-375.754	-393.970	29.5031
720	49.963	18.751	252.150	226.106	-374.759	-394.010	28.6865
740	50.350	19.755	253.524	226.829	-373.755	-394.050	27.9139
760	50.724	20.765	254.872	227.549	-372.745	-394.092	27.1819
780	51.084	21.783	256.194	228.267	-371.727	-394.134	26.4874
800	51.432	22.809	257.492	228.981	-370.701	-394.176	25.8275
820	51.768	23.841	258.766	229.692	-369.669	-394.219	25.1998
840	52.092	24.879	260.018	230.399	-368.631	-394.263	24.6018
860	52.405	25.924	261.247	231.103	-367.586	-394.306	24.0317
880	52.707	26.975	262.455	231.801	-366.535	-394.350	23.4873
900	52.999	28.032	263.643	232.496	-365.478	-394.394	22.9671
920	53.280	29.095	264.811	233.186	-364.415	-394.438	22.4695
940	53.551	30.164	265.960	233.871	-363.346	-394.481	21.9930
960	53.813	31.237	267.090	234.551	-362.273	-394.525	21.5363
980	54.065	32.316	268.202	235.227	-361.194	-394.569	21.0982
1000	54.309	33.400	269.297	235.897	-360.110	-394.613	20.6776

CO<sub>2</sub>

T K	Cp J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ Hf kJ/mol	log K
1020	54.548	34.488	270.375	236.563	-359.022	-394.656	20.2734
1040	54.778	35.582	271.436	237.223	-357.928	-394.700	19.8847
1060	55.000	36.679	272.482	237.878	-356.831	-394.743	19.5107
1080	55.214	37.782	273.512	238.529	-355.728	-394.787	19.1505
1100	55.420	38.888	274.527	239.174	-354.622	-394.830	18.8033
1120	55.619	39.998	275.527	239.814	-353.512	-394.873	18.4685
1140	55.810	41.113	276.513	240.450	-352.397	-394.916	18.1454
1160	55.996	42.231	277.486	241.080	-351.279	-394.958	17.8334
1180	56.174	43.352	278.444	241.705	-350.158	-395.001	17.5319
1200	56.347	44.478	279.390	242.325	-349.032	-395.043	17.2405
1220	56.514	45.606	280.323	242.941	-347.904	-395.085	16.9586
1240	56.676	46.738	281.243	243.551	-346.772	-395.127	16.6858
1260	56.832	47.873	282.151	244.156	-345.637	-395.169	16.4215
1280	56.984	49.011	283.047	244.757	-344.499	-395.211	16.1656
1300	57.130	50.153	283.932	245.353	-343.357	-395.252	15.9174
1320	57.272	51.297	284.805	245.944	-342.213	-395.294	15.6768
1340	57.410	52.443	285.668	246.531	-341.067	-395.335	15.4433
1360	57.543	53.593	286.519	247.112	-339.917	-395.376	15.2167
1380	57.673	54.745	287.360	247.690	-338.765	-395.418	14.9966
1400	57.798	55.900	288.191	248.262	-337.610	-395.459	14.7828
1420	57.920	57.057	289.012	248.830	-336.453	-395.500	14.5750
1440	58.039	58.217	289.822	249.394	-335.293	-395.541	14.3729
1460	58.154	59.379	290.624	249.954	-334.131	-395.583	14.1764
1480	58.265	60.543	291.416	250.508	-332.967	-395.624	13.9851
1500	58.374	61.709	292.199	251.059	-331.801	-395.665	13.7989
1520	58.479	62.878	292.972	251.606	-330.632	-395.707	13.6176
1540	58.582	64.048	293.738	252.148	-329.462	-395.749	13.4410
1560	58.682	65.221	294.494	252.686	-328.289	-395.791	13.2689
1580	58.779	66.396	295.242	253.220	-327.114	-395.833	13.1012
1600	58.873	67.572	295.982	253.750	-325.938	-395.875	12.9376
1620	58.965	68.751	296.714	254.276	-324.759	-395.918	12.7780
1640	59.055	69.931	297.438	254.798	-323.579	-395.960	12.6223
1660	59.142	71.113	298.155	255.316	-322.397	-396.003	12.4704
1680	59.227	72.296	298.863	255.830	-321.214	-396.047	12.3220
1700	59.310	73.482	299.565	256.340	-320.028	-396.090	12.1772
1720	59.390	74.669	300.259	256.847	-318.841	-396.134	12.0356
1740	59.469	75.857	300.946	257.350	-317.653	-396.179	11.8974
1760	59.546	77.048	301.626	257.849	-316.462	-396.223	11.7622
1780	59.621	78.239	302.299	258.345	-315.271	-396.268	11.6301
1800	59.693	79.432	302.966	258.837	-314.078	-396.314	11.5009

CO<sub>2</sub>

T K	C <sub>p</sub> J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H <sub>f</sub> kJ/mol	log K
1820	59.765	80.627	303.626	259.325	-312.883	-396.360	11.3745
1840	59.834	81.823	304.280	259.811	-311.687	-396.406	11.2508
1860	59.902	83.020	304.927	260.292	-310.490	-396.453	11.1298
1880	59.968	84.219	305.568	260.770	-309.291	-396.500	11.0114
1900	60.033	85.419	306.203	261.245	-308.091	-396.548	10.8954
1920	60.096	86.620	306.832	261.717	-306.890	-396.596	10.7818
1940	60.158	87.823	307.455	262.185	-305.687	-396.645	10.6706
1960	60.218	89.027	308.072	262.650	-304.483	-396.695	10.5616
1980	60.277	90.232	308.684	263.112	-303.278	-396.744	10.4548
2000	60.335	91.438	309.290	263.571	-302.072	-396.795	10.3501
2020	60.391	92.645	309.890	264.027	-300.865	-396.846	10.2475
2040	60.446	93.853	310.486	264.479	-299.657	-396.898	10.1469
2060	60.500	95.063	311.076	264.929	-298.447	-396.950	10.0483
2080	60.553	96.273	311.660	265.375	-297.237	-397.003	9.9515
2100	60.604	97.485	312.240	265.819	-296.025	-397.056	9.8565
2120	60.655	98.697	312.815	266.259	-294.813	-397.110	9.7633
2140	60.704	99.911	313.385	266.697	-293.599	-397.165	9.6719
2160	60.752	101.126	313.950	267.132	-292.384	-397.221	9.5821
2180	60.800	102.341	314.510	267.564	-291.169	-397.277	9.4940
2200	60.846	103.558	315.065	267.994	-289.952	-397.334	9.4075
2220	60.892	104.775	315.616	268.420	-288.735	-397.391	9.3225
2240	60.936	105.993	316.162	268.844	-287.517	-397.449	9.2390
2260	60.980	107.212	316.704	269.265	-286.298	-397.508	9.1569
2280	61.023	108.432	317.242	269.684	-285.078	-397.568	9.0764
2300	61.065	109.653	317.775	270.099	-283.857	-397.628	8.9971
2320	61.106	110.875	318.304	270.513	-282.635	-397.689	8.9193
2340	61.146	112.098	318.828	270.923	-281.412	-397.751	8.8428
2360	61.186	113.321	319.349	271.332	-280.189	-397.813	8.7675
2380	61.224	114.545	319.865	271.737	-278.965	-397.877	8.6935
2400	61.263	115.770	320.378	272.141	-277.740	-397.941	8.6207
2420	61.300	116.995	320.887	272.541	-276.515	-398.006	8.5492
2440	61.337	118.222	321.391	272.940	-275.288	-398.071	8.4787
2460	61.373	119.449	321.892	273.336	-274.061	-398.137	8.4095
2480	61.408	120.677	322.389	273.729	-272.833	-398.205	8.3413
2500	61.443	121.905	322.883	274.120	-271.605	-398.272	8.2742
2520	61.477	123.134	323.372	274.509	-270.376	-398.341	8.2081
2540	61.511	124.364	323.858	274.896	-269.146	-398.411	8.1431
2560	61.544	125.595	324.341	275.280	-267.915	-398.481	8.0791
2580	61.576	126.826	324.820	275.663	-266.684	-398.552	8.0161
2600	61.608	128.058	325.296	276.043	-265.452	-398.624	7.9540

CO<sub>2</sub>

T K	C <sub>p</sub> J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H <sub>f</sub> kJ/mol	log K
2620	61.639	129.290	325.768	276.420	-264.220	-398.697	7.8929
2640	61.670	130.523	326.237	276.796	-262.987	-398.770	7.8326
2660	61.701	131.757	326.702	277.169	-261.753	-398.844	7.7733
2680	61.731	132.991	327.165	277.541	-260.519	-398.919	7.7148
2700	61.760	134.226	327.624	277.910	-259.284	-398.995	7.6573
2720	61.789	135.462	328.080	278.277	-258.048	-399.072	7.6005
2740	61.818	136.698	328.532	278.643	-256.812	-399.150	7.5445
2760	61.846	137.935	328.982	279.006	-255.575	-399.228	7.4894
2780	61.874	139.172	329.429	279.367	-254.338	-399.307	7.4350
2800	61.901	140.410	329.872	279.726	-253.100	-399.387	7.3814
2820	61.928	141.648	330.313	280.083	-251.862	-399.468	7.3286
2840	61.955	142.887	330.751	280.438	-250.623	-399.550	7.2765
2860	61.981	144.126	331.186	280.792	-249.384	-399.632	7.2251
2880	62.007	145.366	331.618	281.143	-248.144	-399.715	7.1744
2900	62.033	146.606	332.047	281.493	-246.904	-399.800	7.1244
2920	62.058	147.847	332.473	281.841	-245.663	-399.884	7.0751
2940	62.083	149.089	332.897	282.186	-244.421	-399.970	7.0264
2960	62.108	150.331	333.318	282.531	-243.179	-400.057	6.9784
2980	62.132	151.573	333.736	282.873	-241.937	-400.144	6.9310
3000	62.156	152.816	334.152	283.213	-240.694	-400.232	6.8842
3020	62.180	154.059	334.565	283.552	-239.451	-400.322	6.8381
3040	62.204	155.303	334.975	283.889	-238.207	-400.411	6.7925
3060	62.227	156.547	335.383	284.224	-236.963	-400.502	6.7476
3080	62.250	157.792	335.789	284.558	-235.718	-400.594	6.7032
3100	62.273	159.037	336.192	284.890	-234.473	-400.686	6.6593
3120	62.296	160.283	336.592	285.220	-233.227	-400.779	6.6160
3140	62.318	161.529	336.991	285.548	-231.981	-400.873	6.5733
3160	62.341	162.776	337.386	285.875	-230.734	-400.968	6.5311
3180	62.363	164.023	337.780	286.200	-229.487	-401.063	6.4894
3200	62.385	165.270	338.171	286.524	-228.240	-401.160	6.4482
3220	62.406	166.518	338.560	286.846	-226.992	-401.257	6.4075
3240	62.428	167.767	338.946	287.166	-225.743	-401.355	6.3674
3260	62.449	169.015	339.330	287.485	-224.495	-401.454	6.3277
3280	62.471	170.264	339.712	287.802	-223.246	-401.553	6.2884
3300	62.492	171.514	340.092	288.118	-221.996	-401.654	6.2497
3320	62.513	172.764	340.470	288.432	-220.746	-401.755	6.2114
3340	62.534	174.015	340.845	288.745	-219.495	-401.857	6.1735
3360	62.554	175.266	341.219	289.056	-218.244	-401.960	6.1361
3380	62.575	176.517	341.590	289.366	-216.993	-402.063	6.0991
3400	62.596	177.769	341.959	289.674	-215.741	-402.168	6.0626

CO<sub>2</sub>

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3420	62.616	179.021	342.326	289.981	-214.489	-402.273	6.0264
3440	62.637	180.273	342.692	290.287	-213.237	-402.379	5.9907
3460	62.657	181.526	343.055	290.591	-211.984	-402.485	5.9554
3480	62.677	182.779	343.416	290.893	-210.731	-402.593	5.9205
3500	62.697	184.033	343.775	291.194	-209.477	-402.701	5.8859
3520	62.718	185.287	344.132	291.494	-208.223	-402.810	5.8518
3540	62.738	186.542	344.488	291.792	-206.968	-402.919	5.8180
3560	62.758	187.797	344.841	292.089	-205.713	-403.030	5.7846
3580	62.778	189.052	345.193	292.385	-204.458	-403.141	5.7516
3600	62.798	190.308	345.543	292.680	-203.202	-403.253	5.7189
3620	62.818	191.564	345.891	292.973	-201.946	-403.366	5.6866
3640	62.838	192.821	346.237	293.264	-200.689	-403.479	5.6546
3660	62.858	194.078	346.581	293.555	-199.432	-403.593	5.6229
3680	62.878	195.335	346.924	293.844	-198.175	-403.708	5.5916
3700	62.898	196.593	347.265	294.132	-196.917	-403.823	5.5606
3720	62.918	197.851	347.604	294.418	-195.659	-403.940	5.5300
3740	62.938	199.109	347.941	294.704	-194.401	-404.057	5.4997
3760	62.958	200.368	348.277	294.988	-193.142	-404.174	5.4696
3780	62.978	201.628	348.611	295.270	-191.882	-404.293	5.4399
3800	62.998	202.888	348.943	295.552	-190.622	-404.412	5.4105
3820	63.019	204.148	349.274	295.832	-189.362	-404.531	5.3814
3840	63.039	205.408	349.603	296.112	-188.102	-404.652	5.3526
3860	63.059	206.669	349.931	296.390	-186.841	-404.773	5.3241
3880	63.079	207.931	350.257	296.666	-185.579	-404.895	5.2958
3900	63.100	209.192	350.581	296.942	-184.318	-405.017	5.2679
3920	63.120	210.455	350.904	297.217	-183.055	-405.140	5.2402
3940	63.141	211.717	351.225	297.490	-181.793	-405.264	5.2128
3960	63.162	212.980	351.545	297.762	-180.530	-405.388	5.1856
3980	63.183	214.244	351.863	298.033	-179.266	-405.513	5.1588
4000	63.204	215.508	352.180	298.303	-178.002	-405.639	5.1322
4020	63.225	216.772	352.495	298.572	-176.738	-405.765	5.1058
4040	63.246	218.037	352.809	298.840	-175.473	-405.892	5.0797
4060	63.267	219.302	353.122	299.106	-174.208	-406.019	5.0538
4080	63.288	220.567	353.432	299.372	-172.943	-406.147	5.0282
4100	63.310	221.833	353.742	299.636	-171.677	-406.276	5.0029
4120	63.332	223.100	354.050	299.900	-170.410	-406.405	4.9777
4140	63.353	224.367	354.357	300.162	-169.143	-406.535	4.9528
4160	63.375	225.634	354.662	300.423	-167.876	-406.666	4.9282
4180	63.397	226.902	354.966	300.684	-166.608	-406.797	4.9037
4200	63.420	228.170	355.269	300.943	-165.340	-406.928	4.8795

CO<sub>2</sub>

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4220	63.442	229.438	355.570	301.201	-164.072	-407.061	4.8555
4240	63.465	230.707	355.870	301.458	-162.803	-407.193	4.8318
4260	63.487	231.977	356.169	301.714	-161.533	-407.327	4.8082
4280	63.510	233.247	356.466	301.969	-160.263	-407.460	4.7849
4300	63.534	234.517	356.763	302.224	-158.993	-407.595	4.7617
4320	63.557	235.788	357.057	302.477	-157.722	-407.730	4.7388
4340	63.580	237.060	357.351	302.729	-156.450	-407.865	4.7161
4360	63.604	238.331	357.643	302.980	-155.179	-408.001	4.6936
4380	63.628	239.604	357.935	303.231	-153.906	-408.137	4.6712
4400	63.652	240.877	358.225	303.480	-152.633	-408.274	4.6491
4420	63.677	242.150	358.513	303.728	-151.360	-408.411	4.6272
4440	63.701	243.424	358.801	303.976	-150.086	-408.549	4.6054
4460	63.726	244.698	359.087	304.222	-148.812	-408.687	4.5839
4480	63.751	245.973	359.372	304.468	-147.537	-408.826	4.5625
4500	63.777	247.248	359.656	304.712	-146.262	-408.965	4.5413
4520	63.802	248.524	359.939	304.956	-144.986	-409.105	4.5203
4540	63.828	249.800	360.221	305.199	-143.710	-409.245	4.4995
4560	63.854	251.077	360.502	305.441	-142.433	-409.385	4.4788
4580	63.881	252.354	360.781	305.682	-141.156	-409.526	4.4584
4600	63.907	253.632	361.060	305.922	-139.878	-409.668	4.4380
4620	63.934	254.911	361.337	306.161	-138.599	-409.809	4.4179
4640	63.961	256.189	361.613	306.400	-137.321	-409.951	4.3979
4660	63.989	257.469	361.888	306.637	-136.041	-410.094	4.3781
4680	64.017	258.749	362.162	306.874	-134.761	-410.237	4.3585
4700	64.045	260.030	362.435	307.110	-133.480	-410.380	4.3390
4720	64.073	261.311	362.707	307.345	-132.199	-410.524	4.3197
4740	64.102	262.593	362.978	307.579	-130.917	-410.668	4.3005
4760	64.131	263.875	363.248	307.812	-129.635	-410.812	4.2815
4780	64.160	265.158	363.517	308.045	-128.352	-410.956	4.2626
4800	64.190	266.441	363.785	308.277	-127.069	-411.101	4.2439
4820	64.220	267.725	364.052	308.508	-125.785	-411.246	4.2253
4840	64.250	269.010	364.318	308.738	-124.500	-411.392	4.2069
4860	64.281	270.295	364.583	308.967	-123.215	-411.538	4.1886
4880	64.312	271.581	364.847	309.195	-121.929	-411.684	4.1705
4900	64.343	272.868	365.110	309.423	-120.642	-411.830	4.1525
4920	64.375	274.155	365.373	309.650	-119.355	-411.977	4.1347
4940	64.407	275.443	365.634	309.876	-118.067	-412.124	4.1169
4960	64.439	276.731	365.894	310.101	-116.779	-412.271	4.0994
4980	64.472	278.020	366.153	310.326	-115.490	-412.418	4.0819
5000	64.505	279.310	366.412	310.550	-114.200	-412.565	4.0646

CO<sub>2</sub>

T K	C <sub>p</sub> J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H <sub>f</sub> kJ/mol	log K
5020	64.539	280.601	366.669	310.773	-112.909	-412.713	4.0475
5040	64.573	281.892	366.926	310.995	-111.618	-412.861	4.0304
5060	64.607	283.184	367.182	311.217	-110.326	-413.009	4.0135
5080	64.642	284.476	367.437	311.438	-109.034	-413.158	3.9967
5100	64.677	285.769	367.691	311.658	-107.741	-413.306	3.9800
5120	64.713	287.063	367.944	311.877	-106.447	-413.455	3.9635
5140	64.749	288.358	368.196	312.096	-105.152	-413.603	3.9471
5160	64.785	289.653	368.448	312.314	-103.857	-413.752	3.9308
5180	64.822	290.949	368.699	312.531	-102.561	-413.901	3.9146
5200	64.859	292.246	368.949	312.747	-101.264	-414.050	3.8986
5220	64.897	293.543	369.198	312.963	-99.967	-414.200	3.8826
5240	64.935	294.842	369.446	313.178	-98.668	-414.349	3.8668
5260	64.974	296.141	369.693	313.393	-97.369	-414.498	3.8511
5280	65.013	297.441	369.940	313.606	-96.069	-414.648	3.8355
5300	65.052	298.741	370.186	313.820	-94.769	-414.797	3.8200
5320	65.092	300.043	370.431	314.032	-93.467	-414.947	3.8047
5340	65.133	301.345	370.675	314.244	-92.165	-415.096	3.7894
5360	65.174	302.648	370.919	314.455	-90.862	-415.246	3.7742
5380	65.215	303.952	371.162	314.665	-89.558	-415.396	3.7592
5400	65.257	305.257	371.404	314.875	-88.253	-415.545	3.7443
5420	65.299	306.562	371.645	315.084	-86.948	-415.695	3.7294
5440	65.342	307.869	371.886	315.292	-85.641	-415.844	3.7147
5460	65.386	309.176	372.125	315.500	-84.334	-415.994	3.7001
5480	65.429	310.484	372.365	315.707	-83.026	-416.143	3.6855
5500	65.474	311.793	372.603	315.913	-81.717	-416.293	3.6711
5520	65.519	313.103	372.841	316.119	-80.407	-416.442	3.6568
5540	65.564	314.414	373.078	316.324	-79.096	-416.591	3.6425
5560	65.610	315.726	373.314	316.529	-77.784	-416.740	3.6284
5580	65.657	317.038	373.550	316.733	-76.472	-416.889	3.6144
5600	65.704	318.352	373.785	316.936	-75.158	-417.038	3.6004
5620	65.751	319.667	374.019	317.139	-73.843	-417.187	3.5866
5640	65.800	320.982	374.253	317.341	-72.528	-417.335	3.5728
5660	65.848	322.298	374.486	317.543	-71.212	-417.484	3.5592
5680	65.898	323.616	374.718	317.744	-69.894	-417.632	3.5456
5700	65.947	324.934	374.950	317.944	-68.576	-417.780	3.5321
5720	65.998	326.254	375.181	318.144	-67.256	-417.928	3.5188
5740	66.049	327.574	375.411	318.343	-65.936	-418.075	3.5055
5760	66.101	328.896	375.641	318.541	-64.614	-418.222	3.4922
5780	66.153	330.218	375.870	318.739	-63.292	-418.369	3.4791
5800	66.206	331.542	376.099	318.937	-61.968	-418.516	3.4661

CO<sub>2</sub>

T K	C <sub>p</sub> J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H <sub>f</sub> kJ/mol	log K
5820	66.259	332.867	376.327	319.133	-60.643	-418.663	3.4531
5840	66.313	334.192	376.554	319.330	-59.318	-418.809	3.4403
5860	66.368	335.519	376.781	319.525	-57.991	-418.955	3.4275
5880	66.423	336.847	377.007	319.721	-56.663	-419.100	3.4148
5900	66.479	338.176	377.233	319.915	-55.334	-419.246	3.4021
5920	66.535	339.506	377.458	320.109	-54.004	-419.391	3.3896
5940	66.592	340.837	377.683	320.303	-52.673	-419.535	3.3771
5960	66.650	342.170	377.907	320.496	-51.340	-419.679	3.3648
5980	66.709	343.503	378.130	320.688	-50.007	-419.823	3.3524
6000	66.768	344.838	378.353	320.880	-48.672	-419.966	3.3402