

H₂O Ref.: <http://cea.grc.nasa.gov/>

T K	C _p J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H _f kJ/mol	log K
0	0.	-9.904	0.	INFINITE	-251.730	-238.922	INFINITE
200	33.349	-3.283	175.477	191.891	-245.109	-240.899	60.7903
220	33.388	-2.615	178.658	190.546	-244.441	-241.077	55.0688
240	33.417	-1.947	181.564	189.678	-243.773	-241.261	50.2972
260	33.458	-1.279	184.240	189.158	-243.105	-241.452	46.2566
280	33.517	-0.609	186.722	188.897	-242.435	-241.647	42.7905
298.15	33.588	0.000	188.829	188.829	-241.826	-241.826	40.0453
300	33.596	0.062	189.037	188.830	-241.764	-241.844	39.7840
320	33.696	0.735	191.208	188.911	-241.091	-242.044	37.1512
340	33.815	1.410	193.254	189.107	-240.416	-242.245	34.8262
360	33.950	2.088	195.191	189.392	-239.738	-242.446	32.7579
380	34.101	2.768	197.031	189.746	-239.058	-242.647	30.9057
400	34.265	3.452	198.784	190.154	-238.374	-242.847	29.2374
420	34.440	4.139	200.460	190.605	-237.687	-243.046	27.7267
440	34.625	4.830	202.066	191.090	-236.996	-243.244	26.3522
460	34.818	5.524	203.610	191.601	-236.302	-243.440	25.0962
480	35.019	6.222	205.096	192.133	-235.604	-243.634	23.9440
500	35.225	6.925	206.529	192.680	-234.901	-243.827	22.8831
520	35.436	7.631	207.915	193.239	-234.195	-244.017	21.9030
540	35.653	8.342	209.257	193.808	-233.484	-244.205	20.9948
560	35.873	9.057	210.557	194.383	-232.769	-244.392	20.1509
580	36.097	9.777	211.820	194.963	-232.049	-244.576	19.3646
600	36.324	10.501	213.047	195.545	-231.325	-244.758	18.6301
620	36.554	11.230	214.242	196.129	-230.596	-244.937	17.9425
640	36.787	11.964	215.406	196.713	-229.862	-245.115	17.2974
660	37.022	12.702	216.542	197.297	-229.124	-245.290	16.6910
680	37.259	13.444	217.651	197.879	-228.382	-245.462	16.1198
700	37.499	14.192	218.734	198.460	-227.634	-245.632	15.5809
720	37.741	14.944	219.794	199.038	-226.882	-245.800	15.0716
740	37.985	15.702	220.831	199.613	-226.124	-245.965	14.5895
760	38.231	16.464	221.848	200.185	-225.362	-246.127	14.1325
780	38.478	17.231	222.844	200.753	-224.595	-246.287	13.6986
800	38.728	18.003	223.821	201.317	-223.823	-246.444	13.2862
820	38.979	18.780	224.781	201.878	-223.046	-246.598	12.8936
840	39.232	19.562	225.723	202.435	-222.264	-246.749	12.5195
860	39.486	20.349	226.649	202.987	-221.477	-246.897	12.1625
880	39.741	21.142	227.560	203.535	-220.684	-247.043	11.8216
900	39.998	21.939	228.456	204.079	-219.887	-247.185	11.4957
920	40.255	22.742	229.338	204.619	-219.084	-247.325	11.1837
940	40.514	23.549	230.206	205.154	-218.277	-247.462	10.8849
960	40.773	24.362	231.062	205.685	-217.464	-247.596	10.5983
980	41.032	25.180	231.905	206.211	-216.646	-247.727	10.3233
1000	41.291	26.003	232.737	206.733	-215.823	-247.855	10.0592

H₂O

T K	C _p J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H _f kJ/mol	log K
1020	41.546	26.832	233.557	207.251	-214.994	-247.981	9.8053
1040	41.803	27.665	234.366	207.765	-214.161	-248.104	9.5610
1060	42.060	28.504	235.165	208.274	-213.322	-248.224	9.3258
1080	42.317	29.348	235.953	208.780	-212.478	-248.341	9.0993
1100	42.574	30.197	236.732	209.281	-211.629	-248.456	8.8808
1120	42.830	31.051	237.502	209.778	-210.775	-248.568	8.6701
1140	43.085	31.910	238.262	210.271	-209.916	-248.677	8.4667
1160	43.339	32.774	239.014	210.760	-209.052	-248.783	8.2702
1180	43.592	33.643	239.757	211.245	-208.183	-248.887	8.0803
1200	43.843	34.518	240.491	211.727	-207.308	-248.988	7.8966
1220	44.092	35.397	241.218	212.204	-206.429	-249.087	7.7189
1240	44.339	36.281	241.937	212.678	-205.545	-249.182	7.5469
1260	44.583	37.171	242.648	213.148	-204.655	-249.276	7.3802
1280	44.826	38.065	243.352	213.614	-203.761	-249.367	7.2187
1300	45.065	38.964	244.049	214.077	-202.862	-249.455	7.0622
1320	45.303	39.867	244.739	214.537	-201.959	-249.541	6.9103
1340	45.538	40.776	245.422	214.993	-201.050	-249.625	6.7629
1360	45.770	41.689	246.099	215.445	-200.137	-249.706	6.6198
1380	46.000	42.606	246.768	215.894	-199.220	-249.785	6.4807
1400	46.226	43.529	247.432	216.340	-198.297	-249.862	6.3457
1420	46.450	44.455	248.089	216.783	-197.371	-249.936	6.2143
1440	46.672	45.387	248.740	217.222	-196.439	-250.009	6.0866
1460	46.890	46.322	249.386	217.658	-195.504	-250.079	5.9624
1480	47.106	47.262	250.025	218.091	-194.564	-250.147	5.8415
1500	47.318	48.206	250.659	218.521	-193.620	-250.213	5.7237
1520	47.528	49.155	251.287	218.948	-192.671	-250.278	5.6091
1540	47.736	50.108	251.910	219.372	-191.718	-250.340	5.4974
1560	47.940	51.064	252.527	219.793	-190.762	-250.401	5.3885
1580	48.141	52.025	253.139	220.212	-189.801	-250.459	5.2824
1600	48.340	52.990	253.746	220.627	-188.836	-250.516	5.1788
1620	48.536	53.959	254.347	221.040	-187.867	-250.571	5.0779
1640	48.729	54.931	254.944	221.449	-186.895	-250.624	4.9793
1660	48.919	55.908	255.536	221.856	-185.918	-250.676	4.8832
1680	49.107	56.888	256.123	222.261	-184.938	-250.726	4.7892
1700	49.292	57.872	256.705	222.663	-183.954	-250.774	4.6975
1720	49.474	58.860	257.283	223.062	-182.966	-250.821	4.6079
1740	49.653	59.851	257.856	223.459	-181.975	-250.867	4.5204
1760	49.830	60.846	258.424	223.853	-180.980	-250.910	4.4348
1780	50.004	61.844	258.988	224.244	-179.982	-250.953	4.3511
1800	50.176	62.846	259.548	224.633	-178.980	-250.994	4.2693

H₂O

T K	C _p J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H _f kJ/mol	log K
1820	50.345	63.851	260.103	225.020	-177.975	-251.033	4.1892
1840	50.512	64.860	260.654	225.405	-176.966	-251.072	4.1109
1860	50.676	65.872	261.201	225.786	-175.954	-251.109	4.0343
1880	50.837	66.887	261.744	226.166	-174.939	-251.144	3.9592
1900	50.996	67.905	262.283	226.543	-173.921	-251.179	3.8858
1920	51.153	68.927	262.818	226.919	-172.899	-251.212	3.8139
1940	51.307	69.951	263.349	227.291	-171.875	-251.244	3.7434
1960	51.459	70.979	263.876	227.662	-170.847	-251.275	3.6744
1980	51.608	72.010	264.399	228.030	-169.816	-251.305	3.6067
2000	51.756	73.043	264.918	228.397	-168.783	-251.334	3.5404
2020	51.901	74.080	265.434	228.761	-167.746	-251.361	3.4754
2040	52.043	75.119	265.946	229.123	-166.707	-251.388	3.4117
2060	52.184	76.162	266.455	229.483	-165.664	-251.414	3.3492
2080	52.322	77.207	266.959	229.841	-164.619	-251.439	3.2879
2100	52.458	78.254	267.461	230.197	-163.572	-251.462	3.2278
2120	52.592	79.305	267.959	230.551	-162.521	-251.485	3.1688
2140	52.724	80.358	268.453	230.903	-161.468	-251.507	3.1108
2160	52.854	81.414	268.944	231.253	-160.412	-251.529	3.0540
2180	52.982	82.472	269.432	231.601	-159.354	-251.549	2.9982
2200	53.108	83.533	269.916	231.947	-158.293	-251.569	2.9434
2220	53.232	84.597	270.398	232.291	-157.229	-251.588	2.8896
2240	53.354	85.662	270.875	232.633	-156.164	-251.606	2.8367
2260	53.474	86.731	271.350	232.974	-155.095	-251.623	2.7848
2280	53.592	87.801	271.822	233.313	-154.025	-251.640	2.7338
2300	53.709	88.874	272.291	233.649	-152.952	-251.656	2.6837
2320	53.823	89.950	272.756	233.985	-151.876	-251.672	2.6344
2340	53.936	91.027	273.219	234.318	-150.799	-251.686	2.5860
2360	54.047	92.107	273.678	234.650	-149.719	-251.701	2.5384
2380	54.156	93.189	274.135	234.979	-148.637	-251.714	2.4915
2400	54.264	94.273	274.588	235.308	-147.553	-251.727	2.4455
2420	54.370	95.360	275.039	235.634	-146.466	-251.740	2.4002
2440	54.474	96.448	275.487	235.959	-145.378	-251.752	2.3557
2460	54.577	97.539	275.932	236.282	-144.287	-251.763	2.3119
2480	54.678	98.631	276.374	236.604	-143.195	-251.775	2.2688
2500	54.777	99.726	276.814	236.924	-142.100	-251.785	2.2263
2520	54.875	100.822	277.251	237.242	-141.004	-251.795	2.1846
2540	54.971	101.921	277.685	237.559	-139.905	-251.805	2.1435
2560	55.066	103.021	278.116	237.874	-138.805	-251.815	2.1030
2580	55.159	104.123	278.545	238.187	-137.703	-251.824	2.0632
2600	55.251	105.228	278.972	238.500	-136.598	-251.832	2.0240

H₂O

T K	C _p J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H _f kJ/mol	log K
2620	55.342	106.333	279.395	238.810	-135.493	-251.841	1.9854
2640	55.431	107.441	279.817	239.119	-134.385	-251.849	1.9473
2660	55.519	108.551	280.235	239.427	-133.275	-251.857	1.9099
2680	55.605	109.662	280.651	239.733	-132.164	-251.864	1.8729
2700	55.690	110.775	281.065	240.037	-131.051	-251.871	1.8366
2720	55.774	111.890	281.477	240.341	-129.936	-251.878	1.8008
2740	55.857	113.006	281.885	240.642	-128.820	-251.885	1.7655
2760	55.938	114.124	282.292	240.943	-127.702	-251.891	1.7307
2780	56.018	115.243	282.696	241.242	-126.583	-251.898	1.6964
2800	56.097	116.364	283.098	241.539	-125.462	-251.904	1.6626
2820	56.174	117.487	283.498	241.835	-124.339	-251.910	1.6292
2840	56.251	118.611	283.895	242.130	-123.215	-251.915	1.5964
2860	56.326	119.737	284.290	242.424	-122.089	-251.921	1.5640
2880	56.400	120.865	284.683	242.716	-120.961	-251.926	1.5320
2900	56.474	121.993	285.073	243.007	-119.833	-251.932	1.5005
2920	56.546	123.123	285.462	243.296	-118.703	-251.937	1.4694
2940	56.617	124.255	285.848	243.584	-117.571	-251.942	1.4388
2960	56.687	125.388	286.232	243.871	-116.438	-251.947	1.4085
2980	56.756	126.523	286.614	244.157	-115.303	-251.952	1.3787
3000	56.823	127.658	286.994	244.441	-114.168	-251.957	1.3492
3020	56.890	128.795	287.371	244.724	-113.031	-251.962	1.3202
3040	56.956	129.934	287.747	245.006	-111.892	-251.967	1.2915
3060	57.022	131.074	288.121	245.286	-110.752	-251.972	1.2632
3080	57.086	132.215	288.493	245.566	-109.611	-251.976	1.2353
3100	57.149	133.357	288.862	245.844	-108.469	-251.981	1.2077
3120	57.211	134.501	289.230	246.121	-107.325	-251.986	1.1805
3140	57.273	135.646	289.596	246.397	-106.180	-251.991	1.1536
3160	57.334	136.792	289.960	246.671	-105.034	-251.996	1.1271
3180	57.393	137.939	290.321	246.944	-103.887	-252.001	1.1009
3200	57.452	139.087	290.682	247.217	-102.739	-252.005	1.0750
3220	57.511	140.237	291.040	247.488	-101.589	-252.010	1.0495
3240	57.568	141.388	291.396	247.758	-100.438	-252.015	1.0243
3260	57.625	142.540	291.750	248.027	-99.286	-252.021	0.9993
3280	57.681	143.693	292.103	248.294	-98.133	-252.026	0.9747
3300	57.736	144.847	292.454	248.561	-96.979	-252.031	0.9504
3320	57.791	146.002	292.803	248.826	-95.824	-252.036	0.9263
3340	57.844	147.159	293.150	249.091	-94.667	-252.042	0.9026
3360	57.898	148.316	293.496	249.354	-93.510	-252.048	0.8791
3380	57.950	149.474	293.839	249.616	-92.352	-252.053	0.8560
3400	58.002	150.634	294.181	249.877	-91.192	-252.059	0.8330

H₂O

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3420	58.053	151.795	294.522	250.137	-90.031	-252.065	0.8104
3440	58.104	152.956	294.860	250.396	-88.870	-252.071	0.7880
3460	58.154	154.119	295.197	250.654	-87.707	-252.078	0.7659
3480	58.203	155.282	295.533	250.911	-86.544	-252.084	0.7440
3500	58.252	156.447	295.866	251.167	-85.379	-252.091	0.7224
3520	58.300	157.612	296.198	251.422	-84.214	-252.097	0.7010
3540	58.348	158.779	296.529	251.676	-83.047	-252.104	0.6799
3560	58.395	159.946	296.858	251.929	-81.880	-252.112	0.6590
3580	58.442	161.115	297.185	252.181	-80.711	-252.119	0.6383
3600	58.488	162.284	297.511	252.432	-79.542	-252.126	0.6179
3620	58.534	163.454	297.835	252.682	-78.372	-252.134	0.5977
3640	58.579	164.625	298.158	252.931	-77.201	-252.142	0.5777
3660	58.624	165.797	298.479	253.179	-76.029	-252.150	0.5579
3680	58.668	166.970	298.798	253.426	-74.856	-252.158	0.5384
3700	58.712	168.144	299.116	253.672	-73.682	-252.167	0.5190
3720	58.756	169.319	299.433	253.917	-72.507	-252.176	0.4999
3740	58.799	170.494	299.748	254.161	-71.332	-252.185	0.4809
3760	58.841	171.671	300.062	254.405	-70.155	-252.194	0.4622
3780	58.883	172.848	300.374	254.647	-68.978	-252.203	0.4437
3800	58.925	174.026	300.685	254.889	-67.800	-252.213	0.4253
3820	58.967	175.205	300.994	255.129	-66.621	-252.223	0.4072
3840	59.008	176.385	301.302	255.369	-65.441	-252.233	0.3892
3860	59.049	177.565	301.609	255.608	-64.261	-252.243	0.3714
3880	59.089	178.747	301.914	255.846	-63.079	-252.254	0.3538
3900	59.129	179.929	302.218	256.083	-61.897	-252.265	0.3364
3920	59.169	181.112	302.521	256.319	-60.714	-252.276	0.3192
3940	59.208	182.296	302.822	256.554	-59.530	-252.288	0.3021
3960	59.247	183.480	303.122	256.788	-58.346	-252.299	0.2852
3980	59.286	184.665	303.420	257.022	-57.161	-252.311	0.2685
4000	59.325	185.852	303.718	257.255	-55.974	-252.323	0.2519
4020	59.363	187.038	304.014	257.487	-54.788	-252.336	0.2356
4040	59.401	188.226	304.308	257.718	-53.600	-252.348	0.2193
4060	59.439	189.414	304.602	257.948	-52.412	-252.361	0.2032
4080	59.477	190.604	304.894	258.177	-51.222	-252.375	0.1873
4100	59.514	191.794	305.185	258.406	-50.032	-252.388	0.1716
4120	59.551	192.984	305.475	258.634	-48.842	-252.402	0.1560
4140	59.588	194.176	305.763	258.861	-47.650	-252.416	0.1405
4160	59.624	195.368	306.050	259.087	-46.458	-252.430	0.1252
4180	59.661	196.561	306.336	259.312	-45.265	-252.445	0.1100
4200	59.697	197.754	306.621	259.537	-44.072	-252.460	0.0950

H₂O

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4220	59.733	198.948	306.905	259.761	-42.878	-252.475	0.0801
4240	59.769	200.143	307.187	259.984	-41.683	-252.490	0.0654
4260	59.805	201.339	307.469	260.206	-40.487	-252.506	0.0508
4280	59.840	202.536	307.749	260.428	-39.290	-252.522	0.0363
4300	59.875	203.733	308.028	260.648	-38.093	-252.538	0.0220
4320	59.911	204.931	308.306	260.868	-36.895	-252.555	0.0078
4340	59.946	206.129	308.583	261.088	-35.697	-252.572	-0.0063
4360	59.980	207.328	308.858	261.306	-34.498	-252.589	-0.0202
4380	60.015	208.528	309.133	261.524	-33.298	-252.606	-0.0341
4400	60.050	209.729	309.407	261.741	-32.097	-252.624	-0.0478
4420	60.084	210.930	309.679	261.957	-30.896	-252.641	-0.0613
4440	60.119	212.132	309.950	262.173	-29.694	-252.660	-0.0748
4460	60.153	213.335	310.221	262.388	-28.491	-252.678	-0.0881
4480	60.187	214.539	310.490	262.602	-27.287	-252.697	-0.1013
4500	60.221	215.743	310.758	262.815	-26.083	-252.716	-0.1144
4520	60.255	216.947	311.025	263.028	-24.879	-252.735	-0.1274
4540	60.289	218.153	311.291	263.240	-23.673	-252.754	-0.1403
4560	60.322	219.359	311.556	263.451	-22.467	-252.774	-0.1530
4580	60.356	220.566	311.820	263.662	-21.260	-252.794	-0.1657
4600	60.389	221.773	312.083	263.872	-20.053	-252.814	-0.1782
4620	60.423	222.981	312.345	264.081	-18.845	-252.835	-0.1906
4640	60.456	224.190	312.607	264.290	-17.636	-252.855	-0.2029
4660	60.489	225.400	312.867	264.498	-16.426	-252.877	-0.2152
4680	60.523	226.610	313.126	264.705	-15.216	-252.898	-0.2273
4700	60.556	227.820	313.384	264.912	-14.006	-252.919	-0.2393
4720	60.589	229.032	313.641	265.117	-12.794	-252.941	-0.2512
4740	60.622	230.244	313.897	265.323	-11.582	-252.963	-0.2630
4760	60.655	231.457	314.153	265.527	-10.369	-252.985	-0.2747
4780	60.687	232.670	314.407	265.731	-9.156	-253.008	-0.2863
4800	60.720	233.884	314.661	265.935	-7.942	-253.030	-0.2979
4820	60.753	235.099	314.913	266.137	-6.727	-253.053	-0.3093
4840	60.786	236.314	315.165	266.339	-5.512	-253.076	-0.3206
4860	60.818	237.530	315.415	266.541	-4.296	-253.100	-0.3319
4880	60.851	238.747	315.665	266.742	-3.079	-253.123	-0.3430
4900	60.883	239.964	315.914	266.942	-1.862	-253.147	-0.3541
4920	60.916	241.182	316.162	267.142	-0.644	-253.171	-0.3650
4940	60.948	242.401	316.410	267.340	0.575	-253.196	-0.3759
4960	60.980	243.620	316.656	267.539	1.794	-253.220	-0.3867
4980	61.013	244.840	316.901	267.737	3.014	-253.245	-0.3974
5000	61.045	246.061	317.146	267.934	4.235	-253.269	-0.4080

H₂O

T K	C _p J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H _f kJ/mol	log K
5020	61.077	247.282	317.390	268.130	5.456	-253.294	-0.4186
5040	61.109	248.504	317.633	268.326	6.678	-253.320	-0.4290
5060	61.141	249.726	317.875	268.522	7.900	-253.345	-0.4394
5080	61.173	250.950	318.116	268.716	9.124	-253.371	-0.4497
5100	61.205	252.173	318.356	268.911	10.347	-253.396	-0.4599
5120	61.237	253.398	318.596	269.104	11.572	-253.422	-0.4701
5140	61.269	254.623	318.835	269.297	12.797	-253.448	-0.4801
5160	61.301	255.849	319.073	269.490	14.023	-253.475	-0.4901
5180	61.333	257.075	319.310	269.682	15.249	-253.501	-0.5000
5200	61.365	258.302	319.546	269.873	16.476	-253.528	-0.5099
5220	61.396	259.529	319.782	270.064	17.703	-253.554	-0.5196
5240	61.428	260.758	320.017	270.254	18.932	-253.581	-0.5293
5260	61.460	261.987	320.251	270.444	20.161	-253.608	-0.5389
5280	61.491	263.216	320.484	270.633	21.390	-253.635	-0.5485
5300	61.523	264.446	320.717	270.821	22.620	-253.662	-0.5579
5320	61.554	265.677	320.949	271.009	23.851	-253.690	-0.5673
5340	61.585	266.908	321.180	271.197	25.082	-253.717	-0.5766
5360	61.616	268.140	321.410	271.384	26.314	-253.745	-0.5859
5380	61.648	269.373	321.639	271.570	27.547	-253.773	-0.5951
5400	61.679	270.606	321.868	271.756	28.780	-253.800	-0.6042
5420	61.710	271.840	322.096	271.941	30.014	-253.828	-0.6133
5440	61.741	273.075	322.324	272.126	31.249	-253.856	-0.6223
5460	61.771	274.310	322.550	272.310	32.484	-253.884	-0.6312
5480	61.802	275.546	322.776	272.494	33.720	-253.912	-0.6401
5500	61.833	276.782	323.001	272.677	34.956	-253.940	-0.6489
5520	61.863	278.019	323.226	272.860	36.193	-253.969	-0.6576
5540	61.894	279.256	323.450	273.042	37.430	-253.997	-0.6663
5560	61.924	280.495	323.673	273.224	38.669	-254.025	-0.6749
5580	61.954	281.733	323.895	273.405	39.907	-254.054	-0.6835
5600	61.985	282.973	324.117	273.586	41.147	-254.082	-0.6920
5620	62.015	284.213	324.338	273.766	42.387	-254.111	-0.7004
5640	62.044	285.453	324.558	273.946	43.627	-254.139	-0.7088
5660	62.074	286.695	324.778	274.125	44.869	-254.168	-0.7171
5680	62.104	287.936	324.997	274.304	46.110	-254.196	-0.7253
5700	62.133	289.179	325.215	274.482	47.353	-254.225	-0.7335
5720	62.163	290.422	325.433	274.660	48.596	-254.253	-0.7417
5740	62.192	291.665	325.650	274.837	49.839	-254.282	-0.7498
5760	62.221	292.909	325.866	275.014	51.083	-254.310	-0.7578
5780	62.250	294.154	326.082	275.190	52.328	-254.339	-0.7658
5800	62.278	295.399	326.297	275.366	53.573	-254.367	-0.7737

H₂O

T K	C _p J/mol-K	H-H298.15 kJ/mol	S J/mol-K	-(G-H298.15)/T J/mol-K	H kJ/mol	Δ H _f kJ/mol	log K
5820	62.307	296.645	326.512	275.542	54.819	-254.395	-0.7816
5840	62.335	297.892	326.725	275.717	56.066	-254.424	-0.7894
5860	62.363	299.139	326.939	275.891	57.313	-254.452	-0.7972
5880	62.391	300.386	327.151	276.065	58.560	-254.480	-0.8049
5900	62.419	301.634	327.363	276.239	59.808	-254.508	-0.8126
5920	62.446	302.883	327.574	276.412	61.057	-254.536	-0.8202
5940	62.474	304.132	327.785	276.584	62.306	-254.564	-0.8277
5960	62.501	305.382	327.995	276.756	63.556	-254.592	-0.8352
5980	62.528	306.632	328.204	276.928	64.806	-254.620	-0.8427
6000	62.554	307.883	328.413	277.099	66.057	-254.648	-0.8501