

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

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
0	0.	-8.671	0.	INFINITE	-119.206	-113.813	INFINITE
200	29.109	-2.858	186.033	200.324	-113.393	-111.294	33.5696
220	29.113	-2.276	188.807	199.153	-112.811	-111.110	30.9294
240	29.117	-1.694	191.341	198.398	-112.229	-110.942	28.7327
260	29.122	-1.111	193.672	197.946	-111.647	-110.788	26.8766
280	29.130	-0.529	195.830	197.719	-111.064	-110.649	25.2878
298.15	29.141	0.000	197.660	197.660	-110.535	-110.535	24.0319
300	29.143	0.054	197.840	197.660	-110.481	-110.524	23.9125
320	29.163	0.637	199.722	197.731	-109.898	-110.414	22.7104
340	29.193	1.221	201.490	197.901	-109.315	-110.318	21.6507
360	29.232	1.805	203.160	198.147	-108.730	-110.236	20.7095
380	29.281	2.390	204.742	198.453	-108.145	-110.168	19.8679
400	29.341	2.976	206.245	198.805	-107.559	-110.112	19.1110
420	29.412	3.564	207.678	199.194	-106.972	-110.069	18.4264
440	29.493	4.153	209.049	199.611	-106.383	-110.038	17.8043
460	29.584	4.743	210.362	200.050	-105.792	-110.019	17.2364
480	29.685	5.336	211.623	200.506	-105.199	-110.011	16.7159
500	29.794	5.931	212.837	200.975	-104.604	-110.013	16.2370
520	29.910	6.528	214.007	201.454	-104.007	-110.026	15.7950
540	30.034	7.127	215.139	201.940	-103.408	-110.047	15.3856
560	30.164	7.729	216.233	202.431	-102.806	-110.077	15.0054
580	30.299	8.334	217.294	202.925	-102.201	-110.115	14.6513
600	30.438	8.941	218.324	203.421	-101.594	-110.160	14.3207
620	30.581	9.551	219.324	203.918	-100.984	-110.212	14.0112
640	30.726	10.164	220.297	204.415	-100.371	-110.271	13.7210
660	30.874	10.780	221.245	204.911	-99.755	-110.335	13.4482
680	31.022	11.399	222.169	205.405	-99.136	-110.405	13.1913
700	31.171	12.021	223.070	205.897	-98.514	-110.480	12.9489
720	31.319	12.646	223.950	206.386	-97.889	-110.559	12.7198
740	31.467	13.274	224.810	206.872	-97.261	-110.643	12.5030
760	31.613	13.905	225.652	207.356	-96.630	-110.730	12.2974
780	31.758	14.539	226.475	207.835	-95.997	-110.822	12.1022
800	31.900	15.175	227.280	208.311	-95.360	-110.916	11.9166
820	32.040	15.815	228.070	208.784	-94.721	-111.014	11.7399
840	32.177	16.457	228.844	209.252	-94.078	-111.114	11.5714
860	32.312	17.102	229.602	209.717	-93.434	-111.217	11.4107
880	32.443	17.749	230.347	210.177	-92.786	-111.322	11.2571
900	32.572	18.399	231.077	210.633	-92.136	-111.430	11.1102
920	32.698	19.052	231.794	211.086	-91.483	-111.539	10.9695
940	32.821	19.707	232.499	211.534	-90.828	-111.651	10.8347
960	32.942	20.365	233.191	211.978	-90.170	-111.765	10.7054
980	33.061	21.025	233.872	212.418	-89.510	-111.880	10.5812
1000	33.179	21.687	234.541	212.853	-88.848	-111.997	10.4619

CO

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	33.291	22.352	235.199	213.285	-88.183	-112.115	10.3471
1040	33.400	23.019	235.847	213.713	-87.516	-112.234	10.2367
1060	33.506	23.688	236.484	214.137	-86.847	-112.355	10.1302
1080	33.610	24.359	237.111	214.556	-86.176	-112.478	10.0277
1100	33.710	25.032	237.729	214.972	-85.503	-112.601	9.9287
1120	33.807	25.708	238.337	215.384	-84.828	-112.726	9.8332
1140	33.902	26.385	238.936	215.792	-84.150	-112.851	9.7409
1160	33.994	27.064	239.527	216.196	-83.472	-112.978	9.6517
1180	34.084	27.744	240.108	216.596	-82.791	-113.105	9.5654
1200	34.170	28.427	240.682	216.993	-82.108	-113.234	9.4819
1220	34.255	29.111	241.248	217.386	-81.424	-113.363	9.4011
1240	34.337	29.797	241.805	217.775	-80.738	-113.493	9.3227
1260	34.416	30.485	242.355	218.161	-80.050	-113.624	9.2468
1280	34.494	31.174	242.898	218.543	-79.361	-113.755	9.1732
1300	34.569	31.864	243.433	218.922	-78.671	-113.888	9.1017
1320	34.642	32.557	243.962	219.298	-77.979	-114.021	9.0323
1340	34.713	33.250	244.483	219.670	-77.285	-114.154	8.9650
1360	34.782	33.945	244.998	220.038	-76.590	-114.289	8.8995
1380	34.849	34.641	245.506	220.404	-75.894	-114.424	8.8358
1400	34.914	35.339	246.008	220.766	-75.196	-114.559	8.7739
1420	34.977	36.038	246.504	221.125	-74.497	-114.696	8.7137
1440	35.039	36.738	246.993	221.481	-73.797	-114.833	8.6551
1460	35.098	37.439	247.477	221.834	-73.096	-114.970	8.5980
1480	35.157	38.142	247.955	222.183	-72.393	-115.109	8.5423
1500	35.213	38.846	248.427	222.530	-71.690	-115.248	8.4882
1520	35.268	39.550	248.894	222.874	-70.985	-115.387	8.4353
1540	35.322	40.256	249.355	223.215	-70.279	-115.527	8.3838
1560	35.374	40.963	249.811	223.553	-69.572	-115.668	8.3335
1580	35.425	41.671	250.262	223.888	-68.864	-115.809	8.2845
1600	35.475	42.380	250.708	224.221	-68.155	-115.951	8.2366
1620	35.523	43.090	251.149	224.550	-67.445	-116.094	8.1898
1640	35.570	43.801	251.586	224.877	-66.734	-116.237	8.1441
1660	35.616	44.513	252.017	225.202	-66.022	-116.381	8.0995
1680	35.660	45.226	252.444	225.524	-65.309	-116.525	8.0559
1700	35.704	45.940	252.866	225.843	-64.596	-116.670	8.0132
1720	35.746	46.654	253.284	226.159	-63.881	-116.816	7.9715
1740	35.787	47.369	253.697	226.474	-63.166	-116.962	7.9307
1760	35.828	48.086	254.107	226.785	-62.450	-117.109	7.8908
1780	35.867	48.802	254.512	227.095	-61.733	-117.257	7.8517
1800	35.905	49.520	254.913	227.401	-61.015	-117.405	7.8135

CO

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1820	35.943	50.239	255.310	227.706	-60.297	-117.554	7.7760
1840	35.979	50.958	255.703	228.008	-59.577	-117.703	7.7393
1860	36.015	51.678	256.092	228.308	-58.857	-117.853	7.7034
1880	36.050	52.398	256.477	228.606	-58.137	-118.004	7.6681
1900	36.083	53.120	256.859	228.901	-57.415	-118.155	7.6336
1920	36.117	53.842	257.237	229.194	-56.693	-118.307	7.5997
1940	36.149	54.564	257.611	229.485	-55.971	-118.459	7.5665
1960	36.181	55.288	257.982	229.774	-55.247	-118.613	7.5340
1980	36.212	56.012	258.350	230.061	-54.524	-118.766	7.5020
2000	36.242	56.736	258.714	230.346	-53.799	-118.921	7.4707
2020	36.272	57.461	259.074	230.628	-53.074	-119.076	7.4399
2040	36.301	58.187	259.432	230.909	-52.348	-119.232	7.4097
2060	36.329	58.913	259.786	231.188	-51.622	-119.388	7.3800
2080	36.357	59.640	260.137	231.464	-50.895	-119.545	7.3509
2100	36.384	60.368	260.485	231.739	-50.168	-119.703	7.3223
2120	36.410	61.096	260.830	232.012	-49.440	-119.861	7.2942
2140	36.436	61.824	261.172	232.283	-48.711	-120.020	7.2666
2160	36.462	62.553	261.512	232.552	-47.982	-120.180	7.2394
2180	36.487	63.283	261.848	232.819	-47.253	-120.340	7.2128
2200	36.511	64.012	262.181	233.084	-46.523	-120.501	7.1865
2220	36.535	64.743	262.512	233.348	-45.792	-120.663	7.1607
2240	36.559	65.474	262.839	233.610	-45.061	-120.825	7.1354
2260	36.582	66.205	263.164	233.870	-44.330	-120.988	7.1104
2280	36.604	66.937	263.487	234.128	-43.598	-121.152	7.0859
2300	36.626	67.669	263.807	234.385	-42.866	-121.316	7.0617
2320	36.648	68.402	264.124	234.640	-42.133	-121.481	7.0380
2340	36.669	69.135	264.438	234.893	-41.400	-121.646	7.0146
2360	36.690	69.869	264.751	235.145	-40.666	-121.813	6.9915
2380	36.711	70.603	265.060	235.395	-39.932	-121.980	6.9689
2400	36.731	71.337	265.368	235.644	-39.198	-122.147	6.9465
2420	36.751	72.072	265.673	235.891	-38.463	-122.316	6.9246
2440	36.770	72.807	265.975	236.136	-37.728	-122.485	6.9029
2460	36.789	73.543	266.275	236.380	-36.992	-122.654	6.8816
2480	36.808	74.279	266.573	236.622	-36.256	-122.824	6.8605
2500	36.826	75.015	266.869	236.863	-35.520	-122.995	6.8398
2520	36.845	75.752	267.163	237.102	-34.783	-123.167	6.8194
2540	36.862	76.489	267.454	237.340	-34.046	-123.339	6.7993
2560	36.880	77.227	267.743	237.576	-33.309	-123.512	6.7795
2580	36.897	77.964	268.030	237.811	-32.571	-123.686	6.7599
2600	36.914	78.702	268.315	238.045	-31.833	-123.860	6.7407

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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
2620	36.931	79.441	268.598	238.277	-31.094	-124.035	6.7217
2640	36.947	80.180	268.879	238.508	-30.356	-124.211	6.7029
2660	36.963	80.919	269.158	238.737	-29.616	-124.387	6.6844
2680	36.979	81.658	269.435	238.965	-28.877	-124.564	6.6662
2700	36.995	82.398	269.710	239.192	-28.137	-124.742	6.6482
2720	37.010	83.138	269.983	239.417	-27.397	-124.920	6.6304
2740	37.026	83.878	270.254	239.642	-26.657	-125.099	6.6129
2760	37.041	84.619	270.523	239.864	-25.916	-125.279	6.5956
2780	37.055	85.360	270.791	240.086	-25.175	-125.459	6.5785
2800	37.070	86.101	271.057	240.306	-24.434	-125.640	6.5617
2820	37.084	86.843	271.321	240.525	-23.692	-125.821	6.5451
2840	37.098	87.585	271.583	240.743	-22.951	-126.004	6.5286
2860	37.112	88.327	271.843	240.960	-22.208	-126.187	6.5124
2880	37.126	89.069	272.102	241.175	-21.466	-126.370	6.4964
2900	37.140	89.812	272.359	241.389	-20.723	-126.555	6.4806
2920	37.153	90.555	272.614	241.602	-19.980	-126.739	6.4650
2940	37.166	91.298	272.868	241.814	-19.237	-126.925	6.4495
2960	37.179	92.041	273.120	242.025	-18.494	-127.111	6.4343
2980	37.192	92.785	273.370	242.234	-17.750	-127.298	6.4192
3000	37.205	93.529	273.619	242.443	-17.006	-127.486	6.4043
3020	37.218	94.273	273.866	242.650	-16.262	-127.674	6.3896
3040	37.230	95.018	274.112	242.856	-15.517	-127.863	6.3751
3060	37.242	95.762	274.356	243.061	-14.773	-128.052	6.3607
3080	37.254	96.507	274.599	243.265	-14.028	-128.242	6.3465
3100	37.266	97.253	274.840	243.468	-13.283	-128.433	6.3325
3120	37.278	97.998	275.080	243.670	-12.537	-128.625	6.3186
3140	37.290	98.744	275.318	243.871	-11.791	-128.817	6.3048
3160	37.301	99.490	275.555	244.071	-11.046	-129.010	6.2913
3180	37.313	100.236	275.790	244.269	-10.299	-129.203	6.2779
3200	37.324	100.982	276.024	244.467	-9.553	-129.397	6.2646
3220	37.335	101.729	276.257	244.664	-8.806	-129.592	6.2514
3240	37.346	102.476	276.488	244.859	-8.060	-129.787	6.2385
3260	37.357	103.223	276.718	245.054	-7.313	-129.983	6.2256
3280	37.368	103.970	276.946	245.248	-6.565	-130.180	6.2129
3300	37.379	104.717	277.173	245.441	-5.818	-130.377	6.2003
3320	37.389	105.465	277.399	245.633	-5.070	-130.575	6.1879
3340	37.400	106.213	277.624	245.824	-4.322	-130.773	6.1756
3360	37.410	106.961	277.847	246.013	-3.574	-130.972	6.1634
3380	37.420	107.709	278.069	246.202	-2.826	-131.172	6.1513
3400	37.430	108.458	278.290	246.391	-2.077	-131.373	6.1394

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3420	37.440	109.207	278.510	246.578	-1.329	-131.574	6.1276
3440	37.450	109.955	278.728	246.764	-0.580	-131.775	6.1159
3460	37.460	110.705	278.945	246.949	0.169	-131.978	6.1043
3480	37.470	111.454	279.161	247.134	0.919	-132.180	6.0929
3500	37.480	112.203	279.376	247.318	1.668	-132.384	6.0815
3520	37.489	112.953	279.589	247.500	2.418	-132.588	6.0703
3540	37.499	113.703	279.802	247.682	3.168	-132.793	6.0592
3560	37.508	114.453	280.013	247.863	3.918	-132.998	6.0482
3580	37.518	115.203	280.223	248.043	4.668	-133.204	6.0372
3600	37.527	115.954	280.432	248.223	5.418	-133.411	6.0264
3620	37.536	116.704	280.640	248.401	6.169	-133.618	6.0157
3640	37.545	117.455	280.847	248.579	6.920	-133.826	6.0051
3660	37.554	118.206	281.053	248.756	7.671	-134.035	5.9946
3680	37.563	118.957	281.257	248.932	8.422	-134.244	5.9842
3700	37.572	119.709	281.461	249.107	9.173	-134.453	5.9739
3720	37.581	120.460	281.664	249.282	9.925	-134.664	5.9637
3740	37.590	121.212	281.865	249.455	10.677	-134.875	5.9536
3760	37.598	121.964	282.066	249.628	11.429	-135.086	5.9436
3780	37.607	122.716	282.265	249.801	12.181	-135.298	5.9336
3800	37.615	123.468	282.464	249.972	12.933	-135.511	5.9238
3820	37.624	124.220	282.661	250.143	13.685	-135.724	5.9140
3840	37.632	124.973	282.858	250.312	14.438	-135.938	5.9043
3860	37.641	125.726	283.053	250.482	15.191	-136.153	5.8948
3880	37.649	126.479	283.248	250.650	15.943	-136.368	5.8852
3900	37.657	127.232	283.441	250.818	16.696	-136.584	5.8758
3920	37.666	127.985	283.634	250.985	17.450	-136.800	5.8665
3940	37.674	128.738	283.826	251.151	18.203	-137.017	5.8572
3960	37.682	129.492	284.016	251.316	18.957	-137.235	5.8480
3980	37.690	130.246	284.206	251.481	19.710	-137.453	5.8389
4000	37.698	130.999	284.395	251.645	20.464	-137.671	5.8299
4020	37.706	131.753	284.583	251.809	21.218	-137.891	5.8210
4040	37.714	132.508	284.770	251.971	21.972	-138.111	5.8121
4060	37.722	133.262	284.957	252.133	22.727	-138.331	5.8033
4080	37.729	134.017	285.142	252.295	23.481	-138.552	5.7946
4100	37.737	134.771	285.326	252.455	24.236	-138.774	5.7859
4120	37.745	135.526	285.510	252.615	24.991	-138.996	5.7773
4140	37.753	136.281	285.693	252.775	25.746	-139.219	5.7688
4160	37.760	137.036	285.875	252.933	26.501	-139.442	5.7603
4180	37.768	137.791	286.056	253.092	27.256	-139.666	5.7519
4200	37.775	138.547	286.236	253.249	28.012	-139.891	5.7436

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4220	37.783	139.302	286.416	253.406	28.767	-140.116	5.7354
4240	37.790	140.058	286.594	253.562	29.523	-140.341	5.7272
4260	37.798	140.814	286.772	253.717	30.279	-140.568	5.7191
4280	37.805	141.570	286.949	253.872	31.035	-140.794	5.7110
4300	37.813	142.326	287.126	254.026	31.791	-141.022	5.7030
4320	37.820	143.083	287.301	254.180	32.547	-141.250	5.6951
4340	37.827	143.839	287.476	254.333	33.304	-141.478	5.6872
4360	37.835	144.596	287.650	254.486	34.060	-141.707	5.6794
4380	37.842	145.352	287.823	254.637	34.817	-141.937	5.6716
4400	37.849	146.109	287.995	254.789	35.574	-142.167	5.6639
4420	37.857	146.866	288.167	254.939	36.331	-142.398	5.6563
4440	37.864	147.624	288.338	255.089	37.088	-142.629	5.6487
4460	37.871	148.381	288.508	255.239	37.846	-142.861	5.6412
4480	37.878	149.138	288.678	255.388	38.603	-143.093	5.6337
4500	37.885	149.896	288.846	255.536	39.361	-143.326	5.6263
4520	37.893	150.654	289.014	255.684	40.119	-143.560	5.6189
4540	37.900	151.412	289.182	255.831	40.877	-143.794	5.6116
4560	37.907	152.170	289.348	255.978	41.635	-144.028	5.6043
4580	37.914	152.928	289.514	256.124	42.393	-144.264	5.5971
4600	37.921	153.686	289.679	256.269	43.151	-144.499	5.5900
4620	37.928	154.445	289.844	256.414	43.910	-144.735	5.5828
4640	37.935	155.204	290.008	256.559	44.668	-144.972	5.5758
4660	37.942	155.962	290.171	256.703	45.427	-145.210	5.5688
4680	37.949	156.721	290.333	256.846	46.186	-145.447	5.5618
4700	37.956	157.480	290.495	256.989	46.945	-145.686	5.5549
4720	37.963	158.239	290.656	257.131	47.704	-145.925	5.5480
4740	37.970	158.999	290.817	257.273	48.464	-146.164	5.5412
4760	37.978	159.758	290.977	257.414	49.223	-146.404	5.5344
4780	37.985	160.518	291.136	257.555	49.983	-146.645	5.5277
4800	37.992	161.278	291.295	257.695	50.742	-146.886	5.5210
4820	37.999	162.038	291.453	257.835	51.502	-147.127	5.5144
4840	38.006	162.798	291.610	257.974	52.262	-147.370	5.5078
4860	38.013	163.558	291.767	258.113	53.023	-147.612	5.5012
4880	38.020	164.318	291.923	258.251	53.783	-147.855	5.4947
4900	38.027	165.079	292.078	258.389	54.543	-148.099	5.4883
4920	38.034	165.839	292.233	258.526	55.304	-148.343	5.4819
4940	38.041	166.600	292.388	258.663	56.065	-148.588	5.4755
4960	38.048	167.361	292.541	258.799	56.826	-148.833	5.4691
4980	38.055	168.122	292.695	258.935	57.587	-149.079	5.4628
5000	38.063	168.883	292.847	259.070	58.348	-149.325	5.4566

CO

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
5020	38.070	169.644	292.999	259.205	59.109	-149.572	5.4504
5040	38.077	170.406	293.150	259.340	59.871	-149.819	5.4442
5060	38.084	171.167	293.301	259.474	60.632	-150.067	5.4380
5080	38.091	171.929	293.451	259.607	61.394	-150.315	5.4319
5100	38.099	172.691	293.601	259.740	62.156	-150.564	5.4259
5120	38.106	173.453	293.750	259.873	62.918	-150.813	5.4198
5140	38.113	174.215	293.899	260.005	63.680	-151.063	5.4138
5160	38.121	174.978	294.047	260.136	64.443	-151.313	5.4079
5180	38.128	175.740	294.194	260.268	65.205	-151.564	5.4020
5200	38.135	176.503	294.341	260.398	65.968	-151.816	5.3961
5220	38.143	177.266	294.488	260.529	66.730	-152.067	5.3902
5240	38.150	178.029	294.634	260.659	67.493	-152.320	5.3844
5260	38.158	178.792	294.779	260.788	68.256	-152.572	5.3786
5280	38.165	179.555	294.924	260.917	69.020	-152.826	5.3729
5300	38.173	180.318	295.068	261.046	69.783	-153.079	5.3672
5320	38.181	181.082	295.212	261.174	70.547	-153.333	5.3615
5340	38.188	181.845	295.355	261.302	71.310	-153.588	5.3559
5360	38.196	182.609	295.498	261.429	72.074	-153.843	5.3503
5380	38.204	183.373	295.640	261.556	72.838	-154.099	5.3447
5400	38.212	184.137	295.782	261.682	73.602	-154.355	5.3391
5420	38.220	184.902	295.923	261.809	74.367	-154.612	5.3336
5440	38.227	185.666	296.064	261.934	75.131	-154.869	5.3281
5460	38.235	186.431	296.204	262.059	75.896	-155.126	5.3227
5480	38.243	187.196	296.344	262.184	76.660	-155.384	5.3173
5500	38.252	187.961	296.483	262.309	77.425	-155.643	5.3119
5520	38.260	188.726	296.622	262.433	78.191	-155.902	5.3065
5540	38.268	189.491	296.761	262.557	78.956	-156.161	5.3012
5560	38.276	190.256	296.899	262.680	79.721	-156.421	5.2959
5580	38.285	191.022	297.036	262.803	80.487	-156.681	5.2906
5600	38.293	191.788	297.173	262.925	81.253	-156.942	5.2854
5620	38.302	192.554	297.310	263.047	82.019	-157.203	5.2802
5640	38.310	193.320	297.446	263.169	82.785	-157.464	5.2750
5660	38.319	194.086	297.581	263.290	83.551	-157.727	5.2698
5680	38.328	194.853	297.717	263.411	84.317	-157.989	5.2647
5700	38.336	195.619	297.851	263.532	85.084	-158.252	5.2596
5720	38.345	196.386	297.986	263.652	85.851	-158.515	5.2545
5740	38.354	197.153	298.119	263.772	86.618	-158.779	5.2495
5760	38.363	197.920	298.253	263.892	87.385	-159.043	5.2444
5780	38.373	198.688	298.386	264.011	88.152	-159.308	5.2394
5800	38.382	199.455	298.518	264.130	88.920	-159.573	5.2345

CO

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	ΔH_f kJ/mol	log K
5820	38.391	200.223	298.651	264.248	89.688	-159.839	5.2295
5840	38.401	200.991	298.782	264.366	90.456	-160.105	5.2246
5860	38.410	201.759	298.914	264.484	91.224	-160.371	5.2197
5880	38.420	202.527	299.044	264.601	91.992	-160.638	5.2149
5900	38.430	203.296	299.175	264.718	92.761	-160.905	5.2100
5920	38.440	204.064	299.305	264.835	93.529	-161.172	5.2052
5940	38.450	204.833	299.435	264.951	94.298	-161.440	5.2004
5960	38.460	205.602	299.564	265.067	95.067	-161.709	5.1956
5980	38.470	206.372	299.693	265.182	95.837	-161.978	5.1909
6000	38.480	207.141	299.821	265.298	96.606	-162.247	5.1862