

Einstein frequency		Tmin /K	Tmax /K	Planck's constant h
Element	/10^13 Hz			
Iron	0.7893	10	1000	6.63E-34
Silicon	1.0832			
Gold	0.2855			

Boltzmann's constant kB

1.38E-23

Molar gas constant R

8.314

		Iron		Silicon		Gold	
	T	x	C	x	C	x	C
0	10	3.79E+01	1.24548E-12	5.20E+01	1.74478E-18	1.37E+01	0.005218
0.02	29.8	1.27E+01	0.012095825	1.75E+01	0.000199992	4.60E+00	5.41322
0.04	49.6	7.64E+00	0.70033092	1.05E+01	0.076604219	2.76E+00	13.68426
0.06	69.4	5.46E+00	3.188251341	7.49E+00	0.78018233	1.98E+00	18.19932
0.08	89.2	4.25E+00	6.61861497	5.83E+00	2.504398201	1.54E+00	20.56268
0.1	109	3.48E+00	9.921788554	4.77E+00	4.890941597	1.26E+00	21.8991
0.12	128.8	2.94E+00	12.69203541	4.04E+00	7.430834203	1.06E+00	22.71521
0.14	148.6	2.55E+00	14.89777258	3.50E+00	9.81024913	9.22E-01	23.24603
0.16	168.4	2.25E+00	16.62666244	3.09E+00	11.90233258	8.14E-01	23.60918
0.18	188.2	2.01E+00	17.98202774	2.76E+00	13.68552754	7.28E-01	23.86792
0.2	208	1.82E+00	19.05220298	2.50E+00	15.18436355	6.59E-01	24.0585
0.22	227.8	1.66E+00	19.90572879	2.28E+00	16.43832407	6.02E-01	24.20277
0.24	247.6	1.53E+00	20.59398194	2.10E+00	17.48790792	5.54E-01	24.31455
0.26	267.4	1.42E+00	21.1550936	1.94E+00	18.36932225	5.13E-01	24.40286
0.28	287.2	1.32E+00	21.61739868	1.81E+00	19.11307388	4.77E-01	24.47383
0.3	307	1.23E+00	22.00209018	1.69E+00	19.744154	4.47E-01	24.53169
0.32	326.8	1.16E+00	22.32516269	1.59E+00	20.28277021	4.19E-01	24.57948
0.34	346.6	1.09E+00	22.5988095	1.50E+00	20.74518137	3.96E-01	24.6194
0.36	366.4	1.03E+00	22.83242261	1.42E+00	21.14446422	3.74E-01	24.65309
0.38	386.2	9.81E-01	23.03331059	1.35E+00	21.49116021	3.55E-01	24.68177
0.4	406	9.33E-01	23.20721721	1.28E+00	21.79379974	3.38E-01	24.7064
0.42	425.8	8.90E-01	23.35869921	1.22E+00	22.05931866	3.22E-01	24.72769
0.44	445.6	8.50E-01	23.49140406	1.17E+00	22.29338582	3.08E-01	24.74622
0.46	465.4	8.14E-01	23.60827612	1.12E+00	22.50065985	2.95E-01	24.76246
0.48	485.2	7.81E-01	23.71171108	1.07E+00	22.68499028	2.83E-01	24.77675
0.5	505	7.50E-01	23.80367281	1.03E+00	22.84957551	2.71E-01	24.78941
0.52	524.8	7.22E-01	23.88578249	9.91E-01	22.99708712	2.61E-01	24.80067
0.54	544.6	6.96E-01	23.95938728	9.55E-01	23.12976833	2.52E-01	24.81073
0.56	564.4	6.71E-01	24.02561355	9.21E-01	23.24951207	2.43E-01	24.81975
0.58	584.2	6.49E-01	24.0854086	8.90E-01	23.35792344	2.35E-01	24.82787
0.6	604	6.27E-01	24.13957349	8.61E-01	23.45636976	2.27E-01	24.83521
0.62	623.8	6.08E-01	24.18878916	8.34E-01	23.54602098	2.20E-01	24.84187
0.64	643.6	5.89E-01	24.23363723	8.08E-01	23.62788241	2.13E-01	24.84792
0.66	663.4	5.71E-01	24.27461682	7.84E-01	23.7028214	2.07E-01	24.85344
0.68	683.2	5.55E-01	24.31215811	7.61E-01	23.77158917	2.01E-01	24.85849
0.7	703	5.39E-01	24.34663343	7.40E-01	23.83483878	1.95E-01	24.86312
0.72	722.8	5.24E-01	24.37836623	7.20E-01	23.89313994	1.90E-01	24.86737
0.74	742.6	5.10E-01	24.40763865	7.00E-01	23.94699138	1.85E-01	24.87129
0.76	762.4	4.97E-01	24.43469756	6.82E-01	23.99683105	1.80E-01	24.87491
0.78	782.2	4.85E-01	24.45975979	6.65E-01	24.04304477	1.75E-01	24.87826
0.8	802	4.73E-01	24.48301634	6.48E-01	24.08597341	1.71E-01	24.88136
0.82	821.8	4.61E-01	24.50463598	6.33E-01	24.12591899	1.67E-01	24.88425
0.84	841.6	4.50E-01	24.52476829	6.18E-01	24.16314984	1.63E-01	24.88693
0.86	861.4	4.40E-01	24.54354621	6.04E-01	24.19790499	1.59E-01	24.88943
0.88	881.2	4.30E-01	24.56108818	5.90E-01	24.23039787	1.56E-01	24.89176
0.9	901	4.21E-01	24.57750002	5.77E-01	24.26081955	1.52E-01	24.89394
0.92	920.8	4.12E-01	24.5928765	5.65E-01	24.28934144	1.49E-01	24.89599
0.94	940.6	4.03E-01	24.60730268	5.53E-01	24.3161177	1.46E-01	24.8979
0.96	960.4	3.95E-01	24.62085507	5.42E-01	24.34128721	1.43E-01	24.8997
0.98	980.2	3.87E-01	24.63360268	5.31E-01	24.36497541	1.40E-01	24.90139
1	1000	3.79E-01	24.64560784	5.20E-01	24.38729576	1.37E-01	24.90298

