



410A

THERMODYNAMIC PROPERTY DATA
SI UNITS

KLEA 410A

Saturation Properties

410A Thermodynamic Saturation Properties (SI Units)									
Temp. (°C)	Absolute Pressure (bara)	Density		Enthalpy			Entropy		Temp K
		kg/m ³		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
-80	0.1964	1402.2	0.9010	-2.751	285.319	282.568	0.561	2.039	193.15
-79	0.2101	1399.9	0.9590	-1.669	284.816	283.146	0.567	2.034	194.15
-78	0.2245	1397.5	1.0210	-0.583	284.306	283.723	0.573	2.029	195.15
-77	0.2398	1395.1	1.0860	0.510	283.789	284.299	0.578	2.025	196.15
-76	0.2560	1392.7	1.1540	1.607	283.265	284.873	0.584	2.021	197.15
-75	0.2730	1390.3	1.2260	2.710	282.735	285.445	0.589	2.016	198.15
-74	0.2910	1387.9	1.3010	3.819	282.197	286.016	0.595	2.012	199.15
-73	0.3100	1385.4	1.3800	4.933	281.652	286.585	0.600	2.008	200.15
-72	0.3299	1383.0	1.4630	6.052	281.099	287.152	0.606	2.003	201.15
-71	0.3509	1380.5	1.5500	7.177	280.540	287.717	0.612	1.999	202.15
-70	0.3730	1378.1	1.6410	8.307	279.972	288.280	0.617	1.995	203.15
-69	0.3962	1375.6	1.7360	9.443	279.398	288.841	0.623	1.991	204.15
-68	0.4206	1373.1	1.8360	10.585	278.815	289.400	0.628	1.987	205.15
-67	0.4462	1370.6	1.9400	11.731	278.225	289.957	0.634	1.983	206.15
-66	0.4731	1368.1	2.0500	12.884	277.628	290.511	0.639	1.980	207.15
-65	0.5012	1365.6	2.1640	14.041	277.022	291.063	0.645	1.976	208.15
-64	0.5308	1363.1	2.2830	15.204	276.409	291.613	0.651	1.972	209.15
-63	0.5617	1360.5	2.4070	16.373	275.788	292.161	0.656	1.968	210.15
-62	0.5941	1358.0	2.5370	17.546	275.159	292.705	0.662	1.965	211.15
-61	0.6280	1355.4	2.6720	18.726	274.522	293.248	0.667	1.961	212.15
-60	0.6634	1352.9	2.8140	19.910	273.877	293.787	0.673	1.958	213.15
-59	0.7004	1350.3	2.9610	21.100	273.224	294.324	0.678	1.954	214.15
-58	0.7391	1347.7	3.1140	22.296	272.562	294.858	0.684	1.951	215.15
-57	0.7795	1345.1	3.2730	23.496	271.893	295.389	0.689	1.947	216.15
-56	0.8217	1342.5	3.4400	24.702	271.215	295.917	0.695	1.944	217.15
-55	0.8657	1339.8	3.6120	25.913	270.529	296.442	0.701	1.941	218.15
-54	0.9115	1337.2	3.7920	27.130	269.835	296.964	0.706	1.937	219.15
-53	0.9593	1334.5	3.9790	28.351	269.132	297.483	0.712	1.934	220.15
-52	1.0091	1331.9	4.1730	29.578	268.421	297.999	0.717	1.931	221.15
-51	1.0610	1329.2	4.3740	30.810	267.701	298.512	0.723	1.928	222.15
-50	1.1149	1326.5	4.5840	32.048	266.973	299.021	0.728	1.925	223.15
-49	1.1711	1323.8	4.8010	33.290	266.237	299.527	0.734	1.922	224.15
-48	1.2294	1321.1	5.0270	34.537	265.492	300.029	0.739	1.919	225.15
-47	1.2901	1318.3	5.2610	35.790	264.738	300.528	0.745	1.916	226.15
-46	1.3531	1315.6	5.5030	37.048	263.976	301.024	0.750	1.913	227.15
-45	1.4185	1312.8	5.7540	38.310	263.206	301.516	0.756	1.910	228.15
-44	1.4865	1310.1	6.0150	39.578	262.426	302.004	0.761	1.907	229.15
-43	1.5570	1307.3	6.2850	40.850	261.638	302.489	0.767	1.904	230.15
-42	1.6301	1304.5	6.5640	42.128	260.842	302.970	0.772	1.901	231.15
-41	1.7059	1301.7	6.8530	43.410	260.036	303.447	0.778	1.898	232.15
-40	1.7844	1298.8	7.1530	44.698	259.222	303.920	0.784	1.895	233.15
-39	1.8658	1296.0	7.4620	45.990	258.399	304.389	0.789	1.893	234.15
-38	1.9501	1293.1	7.7830	47.287	257.567	304.854	0.795	1.890	235.15
-37	2.0374	1290.2	8.1140	48.589	256.727	305.316	0.800	1.887	236.15
-36	2.1277	1287.3	8.4560	49.896	255.877	305.773	0.806	1.884	237.15
-35	2.2211	1284.4	8.8100	51.207	255.019	306.226	0.811	1.882	238.15
-34	2.3177	1281.5	9.1750	52.523	254.152	306.675	0.816	1.879	239.15
-33	2.4175	1278.6	9.5530	53.844	253.276	307.120	0.822	1.877	240.15
-32	2.5207	1275.6	9.9430	55.170	252.390	307.560	0.827	1.874	241.15
-31	2.6273	1272.6	10.3460	56.500	251.496	307.996	0.833	1.872	242.15
-30	2.7374	1269.6	10.7610	57.835	250.593	308.428	0.838	1.869	243.15
-29	2.8511	1266.6	11.1900	59.175	249.681	308.856	0.844	1.866	244.15
-28	2.9683	1263.6	11.6320	60.519	248.760	309.278	0.849	1.864	245.15
-27	3.0893	1260.5	12.0880	61.867	247.829	309.697	0.855	1.862	246.15
-26	3.2141	1257.5	12.5590	63.221	246.890	310.110	0.860	1.859	247.15

410A Thermodynamic Saturation Properties (SI Units)									
Temp. (°C)	Absolute Pressure (bara)	Density		Enthalpy			Entropy		Temp K
		kg/m ³		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
-25	3.3428	1254.4	13.0440	64.579	245.941	310.520	0.866	1.857	248.15
-24	3.4754	1251.3	13.5440	65.941	244.983	310.924	0.871	1.854	249.15
-23	3.6121	1248.2	14.0590	67.308	244.016	311.324	0.876	1.852	250.15
-22	3.7529	1245.0	14.5900	68.679	243.039	311.719	0.882	1.850	251.15
-21	3.8978	1241.9	15.1370	70.055	242.053	312.109	0.887	1.847	252.15
-20	4.0471	1238.7	15.7000	71.436	241.058	312.494	0.893	1.845	253.15
-19	4.2007	1235.5	16.2800	72.821	240.053	312.874	0.898	1.843	254.15
-18	4.3588	1232.3	16.8770	74.210	239.039	313.249	0.904	1.840	255.15
-17	4.5214	1229.0	17.4920	75.604	238.015	313.619	0.909	1.838	256.15
-16	4.6886	1225.8	18.1250	77.003	236.981	313.984	0.914	1.836	257.15
-15	4.8605	1222.5	18.7770	78.406	235.938	314.344	0.920	1.834	258.15
-14	5.0372	1219.2	19.4470	79.813	234.885	314.698	0.925	1.832	259.15
-13	5.2187	1215.8	20.1370	81.225	233.822	315.048	0.931	1.829	260.15
-12	5.4053	1212.5	20.8460	82.642	232.750	315.391	0.936	1.827	261.15
-11	5.5968	1209.1	21.5760	84.063	231.667	315.730	0.941	1.825	262.15
-10	5.7936	1205.7	22.3260	85.488	230.574	316.063	0.947	1.823	263.15
-9	5.9955	1202.2	23.0980	86.919	229.471	316.390	0.952	1.821	264.15
-8	6.2028	1198.8	23.8910	88.353	228.358	316.711	0.957	1.819	265.15
-7	6.4154	1195.3	24.7070	89.793	227.234	317.027	0.963	1.816	266.15
-6	6.6336	1191.8	25.5460	91.237	226.100	317.337	0.968	1.814	267.15
-5	6.8573	1188.3	26.4080	92.685	224.956	317.641	0.973	1.812	268.15
-4	7.0868	1184.7	27.2940	94.139	223.800	317.939	0.979	1.810	269.15
-3	7.3220	1181.1	28.2040	95.597	222.634	318.231	0.984	1.808	270.15
-2	7.5630	1177.5	29.1400	97.060	221.457	318.517	0.989	1.806	271.15
-1	7.8101	1173.9	30.1020	98.527	220.269	318.796	0.995	1.804	272.15
0	8.0632	1170.2	31.0900	100.000	219.069	319.069	1.000	1.802	273.15
1	8.3224	1166.5	32.1050	101.478	217.858	319.336	1.005	1.800	274.15
2	8.5879	1162.7	33.1480	102.960	216.636	319.596	1.011	1.798	275.15
3	8.8597	1159.0	34.2200	104.448	215.402	319.849	1.016	1.796	276.15
4	9.1380	1155.1	35.3210	105.940	214.155	320.096	1.021	1.794	277.15
5	9.4228	1151.3	36.4520	107.438	212.897	320.335	1.027	1.792	278.15
6	9.7143	1147.4	37.6140	108.941	211.626	320.568	1.032	1.790	279.15
7	10.0125	1143.5	38.8070	110.450	210.343	320.793	1.037	1.788	280.15
8	10.3176	1139.6	40.0330	111.964	209.047	321.011	1.043	1.786	281.15
9	10.6295	1135.6	41.2930	113.484	207.737	321.221	1.048	1.784	282.15
10	10.9486	1131.6	42.5870	115.009	206.415	321.424	1.053	1.782	283.15
11	11.2748	1127.5	43.9160	116.540	205.079	321.618	1.058	1.780	284.15
12	11.6082	1123.4	45.2820	118.077	203.728	321.805	1.064	1.778	285.15
13	11.9490	1119.3	46.6850	119.620	202.364	321.984	1.069	1.776	286.15
14	12.2973	1115.1	48.1260	121.169	200.985	322.154	1.074	1.774	287.15
15	12.6531	1110.9	49.6070	122.724	199.591	322.316	1.080	1.772	288.15
16	13.0167	1106.6	51.1290	124.286	198.182	322.468	1.085	1.770	289.15
17	13.3880	1102.3	52.6930	125.855	196.757	322.612	1.090	1.768	290.15
18	13.7672	1097.9	54.3000	127.430	195.317	322.746	1.095	1.766	291.15
19	14.1545	1093.5	55.9520	129.012	193.859	322.871	1.101	1.764	292.15
20	14.5499	1089.0	57.6500	130.602	192.385	322.986	1.106	1.762	293.15
21	14.9535	1084.5	59.3960	132.198	190.893	323.091	1.111	1.760	294.15
22	15.3655	1080.0	61.1910	133.803	189.383	323.186	1.117	1.758	295.15
23	15.7860	1075.3	63.0370	135.415	187.855	323.270	1.122	1.756	296.15
24	16.2151	1070.6	64.9360	137.035	186.307	323.343	1.127	1.754	297.15
25	16.6529	1065.9	66.8890	138.664	184.740	323.404	1.133	1.752	298.15
26	17.0995	1061.1	68.8990	140.301	183.153	323.454	1.138	1.750	299.15
27	17.5552	1056.2	70.9670	141.948	181.544	323.491	1.143	1.748	300.15
28	18.0199	1051.3	73.0960	143.603	179.913	323.516	1.149	1.746	301.15
29	18.4938	1046.3	75.2880	145.268	178.260	323.528	1.154	1.744	302.15

410A Thermodynamic Saturation Properties (SI Units)									
Temp. (°C)	Absolute Pressure (bara)	Density		Enthalpy			Entropy		Temp K
		kg/m ³		kJ/kg			kJ/(kg K)		
		Liquid	Vapour	Liquid	Latent	Vapour	Liquid	Vapour	
30	18.9772	1041.2	77.5450	146.943	176.583	323.526	1.160	1.742	303.15
31	19.4700	1036.1	79.8710	148.629	174.882	323.511	1.165	1.740	304.15
32	19.9724	1030.9	82.2670	150.325	173.155	323.480	1.170	1.738	305.15
33	20.4846	1025.6	84.7380	152.033	171.402	323.435	1.176	1.736	306.15
34	21.0068	1020.2	87.2850	153.752	169.621	323.373	1.181	1.733	307.15
35	21.5389	1014.7	89.9130	155.484	167.812	323.296	1.187	1.731	308.15
36	22.0813	1009.1	92.6250	157.228	165.972	323.200	1.192	1.729	309.15
37	22.6340	1003.5	95.4260	158.986	164.101	323.087	1.198	1.727	310.15
38	23.1973	997.7	98.3180	160.758	162.197	322.955	1.203	1.724	311.15
39	23.7712	991.9	101.3080	162.544	160.259	322.803	1.209	1.722	312.15
40	24.3559	985.9	104.3990	164.347	158.284	322.630	1.214	1.720	313.15
41	24.9516	979.8	107.5980	166.165	156.270	322.436	1.220	1.717	314.15
42	25.5585	973.6	110.9100	168.001	154.217	322.218	1.225	1.715	315.15
43	26.1767	967.2	114.3410	169.855	152.121	321.976	1.231	1.712	316.15
44	26.8064	960.8	117.8990	171.729	149.979	321.708	1.237	1.710	317.15
45	27.4478	954.1	121.5910	173.623	147.790	321.413	1.243	1.707	318.15
46	28.1011	947.4	125.4260	175.539	145.550	321.089	1.248	1.704	319.15
47	28.7665	940.4	129.4130	177.478	143.256	320.734	1.254	1.702	320.15
48	29.4442	933.3	133.5630	179.441	140.904	320.346	1.260	1.699	321.15
49	30.1343	926.0	137.8870	181.432	138.491	319.922	1.266	1.696	322.15
50	30.8372	918.5	142.3980	183.451	136.010	319.461	1.272	1.693	323.15
51	31.5530	910.8	147.1100	185.501	133.459	318.959	1.278	1.690	324.15
52	32.2820	902.8	152.0420	187.584	130.829	318.413	1.284	1.687	325.15
53	33.0244	894.6	157.2110	189.703	128.116	317.819	1.291	1.683	326.15
54	33.7805	886.1	162.6390	191.862	125.311	317.173	1.297	1.680	327.15
55	34.5505	877.3	168.3520	194.064	122.406	316.470	1.303	1.676	328.15
56	35.3348	868.2	174.3790	196.314	119.391	315.705	1.310	1.673	329.15
57	36.1336	858.7	180.7550	198.617	116.253	314.869	1.317	1.669	330.15
58	36.9473	848.7	187.5220	200.978	112.978	313.957	1.324	1.665	331.15
59	37.7761	838.3	194.7300	203.406	109.550	312.957	1.331	1.660	332.15
60	38.6206	827.4	202.4400	205.910	105.948	311.858	1.338	1.656	333.15
61	39.4809	815.8	210.7290	208.500	102.146	310.645	1.345	1.651	334.15
62	40.3577	803.6	219.6950	211.191	98.110	309.301	1.353	1.646	335.15
63	41.2513	790.4	229.4660	214.002	93.799	307.801	1.361	1.640	336.15
64	42.1624	776.2	240.2130	216.958	89.156	306.114	1.369	1.634	337.15
65	43.0914	760.7	252.1770	220.094	84.101	304.195	1.378	1.627	338.15
66	44.0390	743.5	265.7130	223.460	78.519	301.980	1.388	1.620	339.15
67	45.0062	724.1	281.3770	227.140	72.228	299.368	1.398	1.611	340.15
68	45.9939	701.3	300.1390	231.272	64.915	296.187	1.410	1.600	341.15

KLEA 410A

Superheated Vapour Properties

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	0.7			0.8			0.9			1.0			1.1			1.2			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
-58	2.943	295.1	1.958																215.15
-56	2.912	296.5	1.964	3.345	296.0	1.947													217.15
-54	2.882	298.0	1.971	3.309	297.5	1.954	3.742	297.0	1.939										219.15
-52	2.852	299.5	1.978	3.275	299.0	1.961	3.702	298.5	1.946	4.133	298.0	1.932							221.15
-50	2.823	300.9	1.985	3.241	300.5	1.968	3.663	300.0	1.953	4.089	299.6	1.939	4.519	299.1	1.926				223.15
-48	2.795	302.4	1.991	3.208	302.0	1.974	3.625	301.5	1.959	4.046	301.1	1.946	4.471	300.6	1.933	4.900	300.2	1.922	225.15
-46	2.767	303.9	1.998	3.176	303.5	1.981	3.588	303.0	1.966	4.004	302.6	1.952	4.424	302.2	1.940	4.847	301.7	1.929	227.15
-44	2.740	305.4	2.004	3.144	305.0	1.987	3.552	304.5	1.973	3.963	304.1	1.959	4.378	303.7	1.947	4.796	303.3	1.935	229.15
-42	2.714	306.9	2.011	3.114	306.5	1.994	3.517	306.1	1.979	3.923	305.6	1.966	4.333	305.2	1.953	4.746	304.8	1.942	231.15
-40	2.688	308.4	2.017	3.084	308.0	2.000	3.482	307.6	1.986	3.884	307.2	1.972	4.289	306.8	1.960	4.697	306.4	1.949	233.15
-38	2.663	309.8	2.023	3.054	309.5	2.007	3.449	309.1	1.992	3.846	308.7	1.979	4.246	308.3	1.967	4.650	307.9	1.955	235.15
-36	2.638	311.3	2.030	3.026	311.0	2.013	3.416	310.6	1.999	3.809	310.2	1.985	4.205	309.8	1.973	4.604	309.5	1.962	237.15
-34	2.614	312.8	2.036	2.998	312.5	2.020	3.384	312.1	2.005	3.773	311.7	1.992	4.164	311.4	1.980	4.559	311.0	1.968	239.15
-32	2.590	314.3	2.042	2.970	314.0	2.026	3.352	313.6	2.011	3.737	313.3	1.998	4.124	312.9	1.986	4.514	312.6	1.975	241.15
-30	2.567	315.9	2.049	2.943	315.5	2.032	3.321	315.2	2.018	3.702	314.8	2.004	4.086	314.5	1.992	4.471	314.1	1.981	243.15
-28	2.544	317.4	2.055	2.917	317.0	2.038	3.291	316.7	2.024	3.668	316.4	2.011	4.048	316.0	1.999	4.429	315.7	1.988	245.15
-26	2.522	318.9	2.061	2.891	318.6	2.045	3.262	318.2	2.030	3.635	317.9	2.017	4.010	317.6	2.005	4.388	317.2	1.994	247.15
-24	2.500	320.4	2.067	2.867	320.1	2.051	3.233	319.8	2.036	3.602	319.4	2.023	3.974	319.1	2.011	4.348	318.8	2.000	249.15
-22	2.479	321.9	2.073	2.841	321.6	2.057	3.204	321.3	2.042	3.570	321.0	2.029	3.938	320.7	2.018	4.308	320.4	2.007	251.15
-20	2.458	323.4	2.079	2.816	323.1	2.063	3.177	322.8	2.049	3.539	322.5	2.036	3.903	322.2	2.024	4.270	321.9	2.013	253.15
-18	2.437	325.0	2.085	2.792	324.7	2.069	3.149	324.4	2.055	3.508	324.1	2.042	3.869	323.8	2.030	4.232	323.5	2.019	255.15
-16	2.417	326.5	2.091	2.769	326.2	2.075	3.123	325.9	2.061	3.478	325.6	2.048	3.836	325.4	2.036	4.195	325.1	2.025	257.15
-14	2.397	328.0	2.097	2.746	327.8	2.081	3.096	327.5	2.067	3.449	327.2	2.054	3.803	326.9	2.042	4.159	326.6	2.031	259.15
-12	2.377	329.6	2.103	2.723	329.3	2.087	3.071	329.0	2.073	3.420	328.8	2.060	3.771	328.5	2.048	4.123	328.2	2.037	261.15
-10	2.358	331.1	2.109	2.701	330.9	2.093	3.045	330.6	2.079	3.392	330.3	2.066	3.739	330.1	2.054	4.088	329.8	2.043	263.15
-8	2.339	332.7	2.115	2.679	332.4	2.099	3.021	332.2	2.085	3.364	331.9	2.072	3.708	331.6	2.060	4.054	331.4	2.049	265.15
-6	2.321	334.2	2.121	2.658	334.0	2.105	2.996	333.7	2.090	3.336	333.5	2.078	3.678	333.2	2.066	4.021	333.0	2.055	267.15
-4	2.302	335.8	2.126	2.637	335.6	2.110	2.972	335.3	2.096	3.309	335.1	2.084	3.648	334.8	2.072	3.988	334.6	2.061	269.15
-2	2.285	337.4	2.132	2.616	337.1	2.116	2.949	336.9	2.102	3.283	336.6	2.089	3.619	336.4	2.078	3.956	336.2	2.067	271.15
0	2.267	338.9	2.138	2.596	338.7	2.122	2.926	338.5	2.108	3.257	338.2	2.095	3.590	338.0	2.084	3.924	337.8	2.073	273.15
2	2.250	340.5	2.144	2.576	340.3	2.128	2.903	340.1	2.114	3.232	339.8	2.101	3.562	339.6	2.089	3.893	339.4	2.079	275.15
4	2.233	342.1	2.149	2.556	341.9	2.134	2.881	341.6	2.119	3.207	341.4	2.107	3.534	341.2	2.095	3.862	341.0	2.085	277.15
6	2.216	343.7	2.155	2.537	343.5	2.139	2.859	343.2	2.125	3.182	343.0	2.113	3.507	342.8	2.101	3.832	342.6	2.090	279.15
8	2.199	345.3	2.161	2.518	345.1	2.145	2.837	344.8	2.131	3.158	344.6	2.118	3.480	344.4	2.107	3.803	344.2	2.096	281.15
10	2.183	346.9	2.167	2.499	346.7	2.151	2.816	346.4	2.137	3.134	346.2	2.124	3.453	346.0	2.113	3.774	345.8	2.102	283.15
12	2.167	348.5	2.172	2.481	348.3	2.156	2.795	348.1	2.142	3.111	347.8	2.130	3.427	347.6	2.118	3.745	347.4	2.108	285.15
14	2.151	350.1	2.178	2.462	349.9	2.162	2.775	349.7	2.148	3.088	349.5	2.135	3.402	349.3	2.124	3.717	349.1	2.113	287.15
16	2.136	351.7	2.183	2.445	351.5	2.168	2.754	351.3	2.154	3.065	351.1	2.141	3.377	350.9	2.130	3.689	350.7	2.119	289.15
18	2.120	353.3	2.189	2.427	353.1	2.173	2.734	352.9	2.159	3.043	352.7	2.147	3.352	352.5	2.135	3.662	352.3	2.125	291.15
20	2.105	354.9	2.194	2.410	354.7	2.179	2.715	354.5	2.165	3.021	354.3	2.152	3.328	354.2	2.141	3.635	354.0	2.130	293.15

Temp (°C)	D = Density (kg/m ³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	1.3			1.4			1.5			1.6			1.7			1.8			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
-46	5.274	301.3	1.918	5.218	302.8	1.925	5.644	302.4	1.915										227.15
-44	5.218	302.8	1.925	5.644	302.4	1.915													229.15
-42	5.163	304.4	1.932	5.583	304.0	1.922	6.007	303.5	1.912	6.435	303.1	1.904							231.15
-40	5.109	305.9	1.938	5.524	305.5	1.928	5.942	305.1	1.919	6.364	304.7	1.910	6.790	304.3	1.902				233.15
-38	5.057	307.5	1.945	5.466	307.1	1.935	5.880	306.7	1.926	6.296	306.3	1.917	6.716	305.9	1.909	7.140	305.5	1.901	235.15
-36	5.006	309.1	1.952	5.410	308.7	1.942	5.819	308.3	1.933	6.230	307.9	1.924	6.644	307.5	1.916	7.062	307.1	1.908	237.15
-34	4.956	310.6	1.958	5.356	310.3	1.948	5.759	309.9	1.939	6.165	309.5	1.931	6.575	309.1	1.923	6.987	308.7	1.915	239.15
-32	4.907	312.2	1.965	5.303	311.8	1.955	5.701	311.5	1.946	6.102	311.1	1.937	6.507	310.7	1.929	6.914	310.3	1.921	241.15
-30	4.860	313.8	1.971	5.251	313.4	1.961	5.645	313.0	1.952	6.041	312.7	1.944	6.440	312.3	1.936	6.842	312.0	1.928	243.15
-28	4.813	315.3	1.978	5.200	315.0	1.968	5.589	314.6	1.959	5.981	314.3	1.950	6.376	313.9	1.942	6.773	313.6	1.935	245.15
-26	4.768	316.9	1.984	5.151	316.6	1.974	5.536	316.2	1.965	5.923	315.9	1.957	6.313	315.5	1.949	6.705	315.2	1.941	247.15
-24	4.724	318.5	1.990	5.102	318.1	1.981	5.483	317.8	1.972	5.866	317.5	1.963	6.252	317.1	1.955	6.639	316.8	1.948	249.15
-22	4.681	320.0	1.997	5.055	319.7	1.987	5.432	319.4	1.978	5.810	319.1	1.970	6.192	318.8	1.962	6.575	318.4	1.954	251.15
-20	4.638	321.6	2.003	5.009	321.3	1.993	5.381	321.0	1.984	5.756	320.7	1.976	6.133	320.4	1.968	6.512	320.1	1.961	253.15
-18	4.597	323.2	2.009	4.964	322.9	2.000	5.332	322.6	1.991	5.703	322.3	1.982	6.076	322.0	1.975	6.451	321.7	1.967	255.15
-16	4.556	324.8	2.015	4.919	324.5	2.006	5.284	324.2	1.997	5.651	323.9	1.989	6.020	323.6	1.981	6.391	323.3	1.973	257.15
-14	4.516	326.4	2.021	4.876	326.1	2.012	5.237	325.8	2.003	5.600	325.5	1.995	5.965	325.2	1.987	6.332	324.9	1.980	259.15
-12	4.478	327.9	2.027	4.834	327.7	2.018	5.191	327.4	2.009	5.551	327.1	2.001	5.912	326.8	1.993	6.275	326.5	1.986	261.15
-10	4.439	329.5	2.033	4.792	329.3	2.024	5.146	329.0	2.015	5.502	328.7	2.007	5.860	328.4	2.000	6.219	328.2	1.992	263.15
-8	4.402	331.1	2.039	4.751	330.9	2.030	5.102	330.6	2.022	5.455	330.3	2.013	5.809	330.1	2.006	6.164	329.8	1.998	265.15
-6	4.365	332.7	2.045	4.711	332.5	2.036	5.059	332.2	2.028	5.408	331.9	2.019	5.759	331.7	2.012	6.111	331.4	2.004	267.15
-4	4.329	334.3	2.051	4.672	334.1	2.042	5.016	333.8	2.034	5.362	333.6	2.025	5.709	333.3	2.018	6.058	333.0	2.011	269.15
-2	4.294	335.9	2.057	4.634	335.7	2.048	4.975	335.4	2.040	5.317	335.2	2.031	5.661	334.9	2.024	6.007	334.7	2.017	271.15
0	4.259	337.5	2.063	4.596	337.3	2.054	4.934	337.0	2.046	5.273	336.8	2.037	5.614	336.6	2.030	5.956	336.3	2.023	273.15
2	4.225	339.1	2.069	4.559	338.9	2.060	4.894	338.7	2.051	5.230	338.4	2.043	5.568	338.2	2.036	5.907	338.0	2.029	275.15
4	4.192	340.7	2.075	4.523	340.5	2.066	4.855	340.3	2.057	5.188	340.1	2.049	5.523	339.8	2.042	5.858	339.6	2.035	277.15
6	4.159	342.4	2.081	4.487	342.1	2.072	4.816	341.9	2.063	5.146	341.7	2.055	5.478	341.5	2.048	5.811	341.2	2.040	279.15
8	4.127	344.0	2.087	4.452	343.8	2.077	4.778	343.5	2.069	5.106	343.3	2.061	5.434	343.1	2.053	5.764	342.9	2.046	281.15
10	4.095	345.6	2.092	4.417	345.4	2.083	4.741	345.2	2.075	5.066	345.0	2.067	5.392	344.7	2.059	5.719	344.5	2.052	283.15
12	4.064	347.2	2.098	4.384	347.0	2.089	4.704	346.8	2.081	5.026	346.6	2.073	5.349	346.4	2.065	5.674	346.2	2.058	285.15
14	4.033	348.9	2.104	4.350	348.7	2.095	4.669	348.5	2.086	4.988	348.3	2.078	5.308	348.0	2.071	5.629	347.8	2.064	287.15
16	4.003	350.5	2.109	4.318	350.3	2.100	4.633	350.1	2.092	4.950	349.9	2.084	5.267	349.7	2.077	5.586	349.5	2.070	289.15
18	3.973	352.1	2.115	4.285	351.9	2.106	4.599	351.7	2.098	4.913	351.6	2.090	5.228	351.4	2.082	5.544	351.2	2.075	291.15
20	3.944	353.8	2.121	4.254	353.6	2.112	4.564	353.4	2.103	4.876	353.2	2.095	5.188	353.0	2.088	5.502	352.8	2.081	293.15
25	3.873	357.9	2.135	4.177	357.7	2.126	4.482	357.6	2.117	4.787	357.4	2.110	5.093	357.2	2.102	5.400	357.0	2.095	298.15
30	3.805	362.1	2.148	4.103	361.9	2.140	4.402	361.7	2.131	4.701	361.6	2.123	5.002	361.4	2.116	5.303	361.2	2.109	303.15
35	3.740	366.3	2.162	4.032	366.1	2.153	4.325	365.9	2.145	4.619	365.8	2.137	4.914	365.6	2.130	5.209	365.5	2.123	308.15
40	3.677	370.5	2.176	3.964	370.3	2.167	4.252	370.2	2.159	4.540	370.0	2.151	4.830	369.9	2.144	5.120	369.7	2.137	313.15
45	3.616	374.7	2.189	3.898	374.6	2.180	4.181	374.4	2.172	4.464	374.3	2.164	4.748	374.1	2.157	5.033	374.0	2.150	318.15
50	3.557	379.0	2.203	3.834	378.9	2.194	4.112	378.7	2.186	4.391	378.6	2.178	4.670	378.5	2.171	4.950	378.3	2.164	323.15

Temp (°C)	D = Density (kg/m ³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	1.9			2			2.1			2.2			2.3			2.4			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
-38	7.567	305.1	1.894	7.909	306.3	1.893	8.337	305.9	1.886										235.15
-36	7.484	306.7	1.900	7.909	306.3	1.893	8.337	305.9	1.886										237.15
-34	7.403	308.3	1.907	7.822	307.9	1.900	8.244	307.5	1.893	8.670	307.1	1.887	9.099	306.7	1.880				239.15
-32	7.324	310.0	1.914	7.737	309.6	1.907	8.154	309.2	1.900	8.574	308.8	1.894	8.997	308.4	1.887	9.423	308.0	1.881	241.15
-30	7.247	311.6	1.921	7.655	311.2	1.914	8.066	310.9	1.907	8.480	310.5	1.901	8.898	310.1	1.894	9.318	309.7	1.888	243.15
-28	7.173	313.2	1.927	7.576	312.9	1.920	7.981	312.5	1.914	8.390	312.1	1.907	8.801	311.8	1.901	9.216	311.4	1.895	245.15
-26	7.100	314.8	1.934	7.498	314.5	1.927	7.899	314.2	1.920	8.302	313.8	1.914	8.708	313.4	1.908	9.117	313.1	1.902	247.15
-24	7.030	316.5	1.941	7.423	316.1	1.934	7.818	315.8	1.927	8.216	315.5	1.921	8.617	315.1	1.915	9.020	314.8	1.909	249.15
-22	6.961	318.1	1.947	7.349	317.8	1.940	7.740	317.4	1.934	8.133	317.1	1.927	8.528	316.8	1.921	8.927	316.4	1.915	251.15
-20	6.894	319.7	1.954	7.277	319.4	1.947	7.663	319.1	1.940	8.052	318.8	1.934	8.442	318.4	1.928	8.835	318.1	1.922	253.15
-18	6.828	321.4	1.960	7.207	321.1	1.953	7.589	320.7	1.947	7.972	320.4	1.940	8.358	320.1	1.934	8.747	319.8	1.929	255.15
-16	6.764	323.0	1.966	7.139	322.7	1.960	7.516	322.4	1.953	7.895	322.1	1.947	8.277	321.8	1.941	8.660	321.5	1.935	257.15
-14	6.701	324.6	1.973	7.072	324.3	1.966	7.445	324.0	1.960	7.820	323.7	1.953	8.197	323.4	1.947	8.576	323.1	1.942	259.15
-12	6.640	326.3	1.979	7.007	326.0	1.972	7.376	325.7	1.966	7.747	325.4	1.960	8.119	325.1	1.954	8.494	324.8	1.948	261.15
-10	6.580	327.9	1.985	6.943	327.6	1.979	7.308	327.3	1.972	7.675	327.0	1.966	8.043	326.8	1.960	8.414	326.5	1.954	263.15
-8	6.522	329.5	1.991	6.881	329.2	1.985	7.242	329.0	1.978	7.605	328.7	1.972	7.969	328.4	1.966	8.335	328.2	1.961	265.15
-6	6.465	331.2	1.998	6.820	330.9	1.991	7.177	330.6	1.985	7.536	330.4	1.978	7.897	330.1	1.973	8.259	329.8	1.967	267.15
-4	6.409	332.8	2.004	6.761	332.5	1.997	7.114	332.3	1.991	7.469	332.0	1.985	7.826	331.8	1.979	8.184	331.5	1.973	269.15
-2	6.354	334.4	2.010	6.702	334.2	2.003	7.052	333.9	1.997	7.404	333.7	1.991	7.757	333.4	1.985	8.111	333.2	1.979	271.15
0	6.300	336.1	2.016	6.645	335.8	2.009													

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	2.5			2.6			2.7			2.8			2.9			3.0			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
-32	9.853	307.6	1.875	10.169	309.0	1.877	10.599	308.6	1.871									241.15	
-30	9.742	309.3	1.882	10.054	310.7	1.884	10.478	310.3	1.878	10.905	309.9	1.873	11.336	309.5	1.868			243.15	
-28	9.633	311.0	1.889	9.943	312.4	1.890	10.361	312.0	1.885	10.782	311.6	1.880	11.206	311.3	1.875	11.633	310.9	1.870	245.15
-26	9.528	312.7	1.896	9.835	314.1	1.897	10.247	313.7	1.892	10.662	313.4	1.887	11.080	313.0	1.882	11.500	312.7	1.877	247.15
-24	9.426	314.4	1.903	9.731	315.8	1.904	10.137	315.4	1.899	10.546	315.1	1.894	10.957	314.7	1.888	11.372	314.4	1.884	249.15
-22	9.327	316.1	1.910	9.629	317.5	1.911	10.030	317.1	1.906	10.433	316.8	1.900	10.839	316.5	1.895	11.247	316.1	1.890	251.15
-20	9.231	317.8	1.916	9.530	319.2	1.918	9.926	318.8	1.912	10.323	318.5	1.907	10.724	318.2	1.902	11.127	317.9	1.897	253.15
-18	9.137	319.5	1.923	9.434	320.8	1.924	9.824	320.5	1.919	10.217	320.2	1.914	10.612	319.9	1.909	11.010	319.6	1.904	255.15
-16	9.046	321.2	1.930	9.340	322.5	1.931	9.726	322.2	1.925	10.114	321.9	1.920	10.503	321.6	1.915	10.896	321.3	1.911	257.15
-14	8.957	322.8	1.936	9.249	324.2	1.937	9.630	323.9	1.932	10.013	323.6	1.927	10.398	323.3	1.922	10.785	323.0	1.917	259.15
-12	8.870	324.5	1.942	9.160	325.9	1.944	9.536	325.6	1.938	9.915	325.3	1.933	10.295	325.1	1.929	10.677	324.8	1.924	261.15
-10	8.786	326.2	1.949	9.073	327.6	1.950	9.445	327.3	1.945	9.819	327.0	1.940	10.195	326.8	1.935	10.572	326.5	1.930	263.15
-8	8.704	327.9	1.955	8.989	329.3	1.956	9.356	329.0	1.951	9.726	328.7	1.946	10.097	328.5	1.941	10.470	328.2	1.937	265.15
-6	8.623	329.6	1.962	8.906	331.0	1.963	9.270	330.7	1.958	9.635	330.4	1.953	10.002	330.2	1.948	10.370	329.9	1.943	267.15
-4	8.544	331.2	1.968	8.825	332.7	1.969	9.185	332.4	1.964	9.546	332.1	1.959	9.909	331.9	1.954	10.273	331.6	1.950	269.15
-2	8.468	332.9	1.974	8.747	334.3	1.975	9.102	334.1	1.970	9.459	333.8	1.965	9.818	333.6	1.960	10.178	333.3	1.956	271.15
0	8.392	334.6	1.980	8.669	336.0	1.981	9.021	335.8	1.976	9.374	335.5	1.971	9.729	335.3	1.967	10.086	335.1	1.962	273.15
2	8.319	336.3	1.986	8.594	337.7	1.987	8.942	337.5	1.982	9.292	337.2	1.978	9.643	337.0	1.973	9.995	336.8	1.968	275.15
4	8.247	338.0	1.992	8.520	339.4	1.993	8.865	339.2	1.988	9.211	339.0	1.984	9.558	338.7	1.979	9.907	338.5	1.974	277.15
6	8.177	339.6	1.999	8.448	341.1	1.999	8.789	340.9	1.994	9.131	340.7	1.990	9.475	340.4	1.985	9.820	340.2	1.981	279.15
8	8.108	341.3	2.005	8.377	342.8	2.005	8.715	342.6	2.001	9.054	342.4	1.996	9.394	342.1	1.991	9.736	341.9	1.987	281.15
10	8.040	343.0	2.011	8.308	344.5	2.011	8.642	344.3	2.006	8.978	344.1	2.002	9.315	343.8	1.997	9.653	343.6	1.993	283.15
12	7.974	344.7	2.016	8.240	346.2	2.017	8.571	346.0	2.012	8.904	345.8	2.008	9.237	345.6	2.003	9.572	345.3	1.999	285.15
14	7.910	346.4	2.022	8.173	347.9	2.023	8.501	347.7	2.018	8.831	347.5	2.014	9.161	347.3	2.009	9.493	347.1	2.005	287.15
16	7.846	348.1	2.028	8.108	349.6	2.029	8.433	349.4	2.024	8.759	349.2	2.020	9.087	349.0	2.015	9.415	348.8	2.011	289.15
18	7.784	349.8	2.034	8.044	351.3	2.035	8.366	351.1	2.030	8.689	350.9	2.025	9.013	350.7	2.021	9.339	350.5	2.017	291.15
20	7.723	351.5	2.040	7.989	353.0	2.041	8.299	352.9	2.035	8.621	352.7	2.030	8.940	352.5	2.026	9.264	352.3	2.023	293.15
25	7.575	355.7	2.054	7.889	355.6	2.049	8.204	355.4	2.045	8.520	355.2	2.040	8.837	355.0	2.035	9.155	354.8	2.031	298.15
30	7.433	360.0	2.069	7.741	359.8	2.064	8.049	359.7	2.059	8.358	359.5	2.054	8.668	359.3	2.050	8.979	359.1	2.045	303.15
35	7.298	364.3	2.083	7.599	364.2	2.078	7.901	364.0	2.073	8.204	363.8	2.068	8.508	363.7	2.064	8.812	363.5	2.060	308.15
40	7.168	368.6	2.096	7.463	368.5	2.092	7.759	368.3	2.087	8.056	368.2	2.082	8.353	368.0	2.078	8.652	367.9	2.074	313.15
45	7.043	373.0	2.110	7.333	372.8	2.105	7.623	372.7	2.101	7.914	372.5	2.096	8.206	372.4	2.092	8.498	372.2	2.088	318.15
50	6.923	377.3	2.124	7.208	377.2	2.119	7.493	377.1	2.114	7.778	376.9	2.110	8.064	376.8	2.106	8.351	376.6	2.101	323.15
55	6.808	381.7	2.137	7.087	381.6	2.133	7.367	381.5	2.128	7.647	381.3	2.123	7.928	381.2	2.119	8.209	381.1	2.115	328.15
60	6.697	386.2	2.151	6.971	386.0	2.146	7.246	385.9	2.141	7.521	385.8	2.137	7.797	385.6	2.133	8.073	385.5	2.128	333.15
65	6.590	390.6	2.164	6.859	390.5	2.159	7.129	390.4	2.155	7.400	390.2	2.150	7.671	390.1	2.146	7.942	390.0	2.142	338.15
70	6.487	395.1	2.177	6.751	395.0	2.172	7.017	394.9	2.168	7.283	394.7	2.163	7.549	394.6	2.159	7.815	394.5	2.155	343.15
75	6.387	399.6	2.190	6.647	399.5	2.185	6.908	399.4	2.181	7.169	399.3	2.176	7.431	399.2	2.172	7.693	399.0	2.168	348.15
80	6.290	404.1	2.203	6.546	404.0	2.198	6.803	403.9	2.194	7.060	403.8	2.189	7.318	403.7	2.185	7.575	403.6	2.181	353.15
85	6.197	408.7	2.216	6.449	408.6	2.211	6.702	408.5	2.207	6.955	408.4	2.202	7.208	408.3	2.198	7.462	408.2	2.194	358.15

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	3.1			3.2			3.3			3.4			3.5			3.6			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
-26	12.063	310.5	1.865	12.497	310.2	1.860	12.781	311.6	1.862	13.214	311.2	1.858						247.15	
-24	11.924	312.3	1.872	12.351	311.9	1.867	12.781	311.6	1.862	13.214	311.2	1.858						249.15	
-22	11.789	314.0	1.879	12.210	313.7	1.874	12.633	313.3	1.869	13.059	313.0	1.865	13.489	312.6	1.860	13.922	312.3	1.856	251.15
-20	11.659	315.8	1.886	12.073	315.5	1.881	12.490	315.1	1.876	12.910	314.8	1.872	13.332	314.4	1.868	13.758	314.1	1.863	253.15
-18	11.532	317.5	1.892	11.940	317.2	1.888	12.351	316.9	1.883	12.765	316.5	1.879	13.181	316.2	1.875	13.600	315.9	1.870	255.15
-16	11.409	319.3	1.899	11.812	319.0	1.895	12.217	318.6	1.890	12.624	318.3	1.886	13.034	318.0	1.882	13.447	317.7	1.877	257.15
-14	11.290	321.0	1.906	11.687	320.7	1.901	12.086	320.4	1.897	12.488	320.1	1.893	12.892	319.8	1.888	13.299	319.4	1.884	259.15
-12	11.174	322.7	1.913	11.566	322.4	1.908	11.960	322.1	1.904	12.356	321.8	1.899	12.754	321.5	1.895	13.155	321.2	1.891	261.15
-10	11.061	324.5	1.919	11.448	324.2	1.915	11.836	323.9	1.910	12.227	323.6	1.906	12.620	323.3	1.902	13.015	323.0	1.898	263.15
-8	10.952	326.2	1.926	11.333	325.9	1.921	11.717	325.6	1.917	12.102	325.3	1.913	12.490	325.1	1.909	12.880	324.8	1.905	265.15
-6	10.845	327.9	1.932	11.222	327.6	1.928	11.600	327.4	1.924	11.981	327.1	1.919	12.364	326.8	1.915	12.749	326.5	1.911	267.15
-4	10.741	329.6	1.939	11.113	329.4	1.934	11.487	329.1	1.930	11.863	328.8	1.926	12.241	328.6	1.922	12.621	328.3	1.918	269.15
-2	10.639	331.4	1.945	11.007	331.1	1.941	11.377	330.8	1.936	11.748	330.6	1.932	12.121	330.3	1.928	12.496	330.1	1.924	271.15
0	10.540	333.1	1.951	10.904	332.8	1.947	11.269	332.6	1.943	11.636	332.3	1.939	12.005	332.1	1.935	12.375	331.8	1.931	273.15
2	10.444	334.8	1.958	10.803	334.6	1.953	11.164	334.3	1.949	11.527	334.1	1.945	11.891	333.8	1.941	12.257	333.6	1.937	275.15
4	10.349	336.5	1.964	10.705	336.3	1.960	11.062	336.0	1.955	11.420	335.8	1.951	11.780	335.6	1.947	12.142	335.3	1.943	277.15
6	10.257	338.3	1.970	10.609	338.0	1.966	10.962	337.8	1.962	11.316	337.5	1.958	11.672	337.3	1.954	12.029	337.1	1.950	279.15
8	10.167	340.0	1.976	10.515	339.7	1.972	10.864	339.5	1.968	11.214	339.3	1.964	11.566	339.1	1.960	11.920	338.8	1.956	28

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	3.7			3.8			3.9			4.0			4.1			4.2			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
-22	14.358	311.9	1.852	14.619	313.4	1.855	15.054	313.0	1.851	15.492	312.7	1.847							251.15
-20	14.187	313.7	1.859	14.447	315.2	1.862	14.875	314.8	1.858	15.306	314.5	1.854	15.740	314.2	1.850	16.177	313.8	1.846	253.15
-18	14.022	315.5	1.866	14.280	317.0	1.869	14.701	316.7	1.865	15.125	316.3	1.861	15.552	316.0	1.857	15.982	315.7	1.854	255.15
-16	13.862	317.3	1.873	14.120	318.8	1.876	14.534	318.5	1.872	14.951	318.2	1.868	15.371	317.8	1.865	15.793	317.5	1.861	257.15
-14	13.708	319.1	1.880	13.964	320.6	1.883	14.372	320.3	1.879	14.783	320.0	1.875	15.196	319.7	1.872	15.612	319.3	1.868	259.15
-12	13.558	320.9	1.887	13.813	322.4	1.889	14.215	322.1	1.886	14.619	321.8	1.882	15.026	321.5	1.878	15.436	321.2	1.875	261.15
-10	13.413	322.7	1.894	13.666	324.2	1.897	14.063	323.9	1.893	14.461	323.6	1.889	14.862	323.3	1.885	15.265	323.0	1.882	263.15
-8	13.272	324.5	1.901	13.524	326.0	1.903	13.915	325.7	1.900	14.308	325.4	1.896	14.703	325.1	1.892	15.100	324.8	1.889	265.15
-6	13.135	326.2	1.907	13.386	327.7	1.910	13.772	327.5	1.906	14.159	327.2	1.902	14.549	326.9	1.899	14.941	326.6	1.895	267.15
-4	13.002	328.0	1.914	13.252	329.5	1.917	13.632	329.2	1.913	14.015	329.0	1.909	14.399	328.7	1.906	14.785	328.4	1.902	269.15
-2	12.873	329.8	1.920	13.121	331.3	1.923	13.497	331.0	1.919	13.874	330.8	1.916	14.253	330.5	1.912	14.634	330.2	1.909	271.15
0	12.747	331.5	1.927	12.994	333.1	1.929	13.365	332.8	1.926	13.737	332.5	1.922	14.112	332.3	1.919	14.488	332.0	1.915	273.15
2	12.624	333.3	1.933	12.870	334.8	1.936	13.236	334.6	1.932	13.604	334.3	1.929	13.974	334.1	1.925	14.345	333.8	1.922	275.15
4	12.505	335.1	1.940	12.749	336.6	1.942	13.111	336.4	1.939	13.475	336.1	1.935	13.840	335.9	1.932	14.206	335.6	1.928	277.15
6	12.388	336.8	1.946	12.631	338.4	1.949	12.989	338.1	1.945	13.348	337.9	1.941	13.709	337.7	1.938	14.071	337.4	1.935	279.15
8	12.275	338.6	1.952	12.516	340.1	1.955	12.870	339.9	1.951	13.225	339.7	1.948	13.582	339.4	1.944	13.940	339.2	1.941	281.15
10	12.164	340.3	1.958	12.404	341.9	1.961	12.754	341.7	1.957	13.105	341.4	1.954	13.457	341.2	1.950	13.811	341.0	1.947	283.15
12	12.055	342.1	1.965	12.294	343.6	1.967	12.640	343.4	1.964	12.987	343.2	1.960	13.336	343.0	1.957	13.686	342.8	1.953	285.15
14	11.950	343.9	1.971	12.187	345.4	1.973	12.529	345.2	1.970	12.873	345.0	1.966	13.217	344.8	1.963	13.563	344.6	1.960	287.15
16	11.846	347.4	1.983	12.082	347.2	1.979	12.421	347.0	1.976	12.761	346.7	1.972	13.102	346.5	1.969	13.444	346.3	1.966	289.15
18	11.745	349.1	1.989	11.980	348.9	1.985	12.315	348.7	1.982	12.651	348.5	1.978	12.989	348.3	1.975	13.327	348.1	1.972	291.15
20	11.646	353.5	2.004	11.733	353.3	2.000	12.060	353.1	1.997	12.388	352.9	1.993	12.716	352.8	1.990	13.046	352.6	1.987	293.15
25	11.407	357.9	2.018	11.499	357.7	2.015	11.818	357.6	2.011	12.138	357.4	2.008	12.459	357.2	2.005	12.780	357.0	2.002	295.15
30	11.181	362.3	2.033	11.276	362.2	2.029	11.588	362.0	2.026	11.900	361.8	2.023	12.213	361.7	2.019	12.528	361.5	2.016	297.15
35	10.965	366.8	2.047	11.063	366.6	2.044	11.363	366.4	2.040	11.674	366.3	2.037	11.980	366.1	2.034	12.287	366.0	2.031	299.15
40	10.759	371.2	2.061	10.860	371.0	2.058	11.159	370.9	2.054	11.458	370.7	2.051	11.757	370.6	2.048	12.058	370.4	2.045	301.15
45	10.563	375.7	2.075	10.666	375.5	2.072	10.958	375.4	2.068	11.251	375.2	2.065	11.545	375.1	2.062	11.839	374.9	2.059	303.15
50	10.375	380.1	2.089	10.480	380.0	2.085	10.766	379.9	2.082	11.053	379.7	2.079	11.341	379.6	2.076	11.629	379.4	2.073	305.15
55	10.194	384.6	2.102	10.301	384.5	2.099	10.582	384.4	2.096	10.864	384.2	2.093	11.146	384.1	2.090	11.428	384.0	2.086	307.15
60	10.021	389.1	2.116	10.130	389.0	2.113	10.405	388.9	2.109	10.681	388.8	2.106	10.958	388.7	2.103	11.235	388.5	2.100	309.15
65	9.854	393.7	2.129	9.964	393.6	2.126	10.235	393.5	2.123	10.506	393.3	2.120	10.778	393.2	2.116	11.050	393.1	2.113	311.15
70	9.694	398.3	2.142	9.805	398.2	2.139	10.071	398.0	2.136	10.337	397.9	2.133	10.604	397.8	2.130	10.871	397.7	2.127	313.15
75	9.540	402.9	2.156	9.652	402.8	2.152	9.913	402.7	2.149	10.175	402.5	2.146	10.437	402.4	2.143	10.699	402.3	2.140	315.15
80	9.391	407.5	2.169	9.504	407.4	2.165	9.760	407.3	2.162	10.018	407.2	2.159	10.275	407.1	2.156	10.533	407.0	2.153	317.15
85	9.247	412.2	2.182	9.361	412.1	2.178	9.613	412.0	2.175	9.866	411.9	2.172	10.119	411.8	2.169	10.373	411.7	2.166	319.15
90	9.108	416.8	2.194	9.222	416.7	2.191	9.471	416.7	2.188	9.720	416.6	2.185	9.969	416.5	2.182	10.218	416.4	2.179	321.15
95	8.974	421.6	2.207	9.088	421.5	2.204	9.333	421.4	2.201	9.578	421.3	2.198	9.823	421.2	2.195	10.069	421.1	2.192	323.15
100	8.844	426.3	2.220	8.959	426.2	2.216	9.199	426.1	2.213	9.441	426.1	2.210	9.682	426.0	2.207	9.924	425.9	2.204	325.15
105	8.718	431.1	2.232	8.833	431.0	2.229	9.070	430.9	2.226	9.308	430.9	2.223	9.546	430.8	2.220	9.784	430.7	2.217	327.15
110	8.596																		329.15

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	4.3			4.4			4.5			4.6			4.7			4.8			
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	
-18	16.617	313.5	1.843	16.850	315.0	1.846	17.289	314.6	1.843	17.731	314.3	1.839							255.15
-16	16.414	315.3	1.850	16.647	316.9	1.853	17.078	316.5	1.850	17.512	316.2	1.846	17.950	315.8	1.843	18.390	315.5	1.839	257.15
-14	16.219	317.2	1.857	16.451	318.7	1.861	16.875	318.4	1.857	17.302	318.1	1.854	17.731	317.7	1.850	18.164	317.4	1.847	259.15
-12	16.030	319.0	1.864	16.262	320.6	1.868	16.679	320.2	1.864	17.099	319.9	1.861	17.521	319.6	1.857	17.946	319.3	1.854	261.15
-10	15.848	320.9	1.871	16.079	322.4	1.875	16.489	322.1	1.871	16.902	321.8	1.868	17.318	321.5	1.864	17.736	321.2	1.861	263.15
-8	15.671	322.7	1.878	15.902	324.2	1.882	16.306	323.9	1.878	16.712	323.7	1.875	17.121	323.4	1.871	17.532	323.1	1.868	265.15
-6	15.500	324.5	1.885	15.730	326.0	1.888	16.128	325.8	1.885	16.529	325.5	1.882	16.931	325.2	1.878	17.336	324.9	1.875	267.15
-4	15.334	326.3	1.892	15.564	327.9	1.895	15.956	327.6	1.892	16.351	327.3	1.888	16.747	327.1	1.885	17.146	326.8	1.882	269.15
-2	15.174	328.2	1.899	15.402	329.7	1.902	15.789	329.4	1.898	16.178	329.2	1.895	16.569	328.9	1.892	16.962	328.6	1.889	271.15
0	15.017	330.0	1.905	15.246	331.5	1.908	15.627	331.3	1.905	16.011	331.0	1.902	16.396	330.7	1.899	16.783	330.5	1.896	273.15
2	14.866	331.8	1.912	15.093	333.3	1.915	15.470	333.1	1.912	15.848	332.8	1.908	16.228	332.6	1.905	16.610	332.3	1.902	275.15
4	14.718	333.6	1.918	14.945	335.1	1.921	15.316	334.9	1.918	15.690	334.6	1.915	16.065	334.4	1.912	16.441	334.1	1.909	277.15
6	14.575	335.4	1.925	14.800	336.9	1.928	15.167	336.7	1.925	15.536	336.5	1.922	15.906	336.2	1.918	16.278	336.0	1.915	279.15
8	14.435	337.2	1.931	14.660	338.7	1.934	15.022	338.5	1.931	15.386	338.3	1.928	15.752	338.0	1.925	16.119	337.8	1.922	281.15
10	14.299	339.0	1.938	14.523	340.5	1.941	14.881	340.3	1.937	15.240	340.1	1.934	15.601	339.9	1.931	15.964	339.6	1.928	283.15
12	14.166	340.8	1.944	14.389	342.3	1.947	14.743	342.1	1.944	15.098	341.9	1.941	15.455	341.7	1.938	15.813	341.4	1.935	285.15
14	14.037	342.6	1.950	14.259	344.1	1.953	14.609	343.9	1.950	14.960	343.7	1.947	15.312	343.5	1.944	15.666	343.3	1.941	287.15
16	13.910	344.3	1.956	14.13															

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	4.9			5.0			5.1			5.2			5.3			5.4			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
-14	18.833	315.2	1.836	19.280	314.8	1.833	19.479	316.4	1.837	19.923	316.1	1.834	20.371	315.7	1.830	20.822	315.4	1.827	259.15
-12	18.599	317.1	1.843	19.038	316.8	1.840	19.479	316.4	1.837	19.923	316.1	1.834	20.371	315.7	1.830	20.822	315.4	1.827	261.15
-10	18.374	319.0	1.851	18.804	318.7	1.847	19.237	318.3	1.844	19.674	318.0	1.841	20.113	317.7	1.838	20.555	317.4	1.835	263.15
-8	18.156	320.9	1.858	18.579	320.6	1.855	19.005	320.3	1.851	19.433	319.9	1.848	19.865	319.6	1.845	20.299	319.3	1.842	265.15
-6	17.946	322.8	1.865	18.362	322.5	1.862	18.781	322.2	1.859	19.202	321.9	1.856	19.626	321.6	1.852	20.052	321.2	1.849	267.15
-4	17.743	324.6	1.872	18.152	324.3	1.869	18.564	324.1	1.866	18.978	323.8	1.863	19.395	323.5	1.860	19.814	323.2	1.857	269.15
-2	17.547	326.5	1.879	17.950	326.2	1.876	18.355	325.9	1.873	18.762	325.7	1.870	19.172	325.4	1.867	19.584	325.1	1.864	271.15
0	17.357	328.4	1.886	17.753	328.1	1.883	18.152	327.8	1.880	18.554	327.5	1.877	18.957	327.3	1.874	19.362	327.0	1.871	273.15
2	17.172	330.2	1.892	17.563	329.9	1.889	17.956	329.7	1.886	18.351	329.4	1.883	18.748	329.1	1.880	19.148	328.9	1.878	275.15
4	16.993	332.1	1.899	17.379	331.8	1.896	17.766	331.5	1.893	18.156	331.3	1.890	18.547	331.0	1.887	18.940	330.8	1.884	277.15
6	16.820	333.9	1.906	17.200	333.6	1.903	17.582	333.4	1.900	17.966	333.1	1.897	18.351	332.9	1.894	18.739	332.6	1.891	279.15
8	16.651	335.7	1.912	17.026	335.5	1.909	17.403	335.2	1.906	17.781	335.0	1.903	18.161	334.8	1.901	18.543	334.5	1.898	281.15
10	16.487	337.6	1.919	16.857	337.3	1.916	17.229	337.1	1.913	17.602	336.9	1.910	17.977	336.6	1.907	18.354	336.4	1.904	283.15
12	16.328	339.4	1.925	16.693	339.2	1.922	17.060	338.9	1.919	17.428	338.7	1.917	17.798	338.5	1.914	18.170	338.2	1.911	285.15
14	16.172	341.2	1.932	16.533	341.0	1.929	16.895	340.8	1.926	17.259	340.6	1.923	17.624	340.3	1.920	17.991	340.1	1.917	287.15
16	16.021	343.0	1.938	16.377	342.8	1.935	16.735	342.6	1.932	17.094	342.4	1.929	17.455	342.2	1.927	17.817	342.0	1.924	289.15
18	15.873	344.9	1.944	16.226	344.7	1.941	16.579	344.4	1.939	16.934	344.2	1.936	17.290	344.0	1.933	17.647	343.8	1.930	291.15
20	15.729	346.7	1.950	16.078	346.5	1.948	16.427	346.3	1.945	16.777	346.1	1.942	17.129	345.9	1.939	17.482	345.6	1.937	293.15
25	15.385	351.2	1.966	15.723	351.0	1.963	16.062	350.8	1.960	16.403	350.6	1.958	16.745	350.4	1.955	17.088	350.3	1.952	298.15
30	15.059	355.8	1.981	15.388	355.6	1.978	15.719	355.4	1.975	16.050	355.2	1.973	16.383	355.0	1.970	16.716	354.8	1.967	303.15
35	14.751	360.3	1.996	15.072	360.1	1.993	15.394	360.0	1.990	15.717	359.8	1.988	16.041	359.6	1.985	16.366	359.4	1.982	308.15
40	14.459	364.8	2.010	14.772	364.7	2.008	15.086	364.5	2.005	15.401	364.3	2.002	15.717	364.2	2.000	16.034	364.0	1.997	313.15
45	14.181	369.4	2.025	14.487	369.2	2.022	14.794	369.1	2.019	15.101	368.9	2.017	15.410	368.8	2.014	15.719	368.6	2.012	318.15
50	13.916	373.9	2.039	14.215	373.8	2.036	14.515	373.6	2.034	14.816	373.5	2.031	15.117	373.3	2.029	15.419	373.2	2.026	323.15
55	13.663	378.5	2.053	13.956	378.4	2.050	14.249	378.2	2.048	14.543	378.1	2.045	14.838	377.9	2.043	15.134	377.8	2.040	328.15
60	13.421	383.1	2.067	13.708	382.9	2.064	13.995	382.8	2.062	14.283	382.7	2.059	14.572	382.5	2.057	14.861	382.4	2.054	333.15
65	13.189	387.7	2.080	13.470	387.5	2.078	13.752	387.4	2.075	14.034	387.3	2.073	14.317	387.2	2.070	14.600	387.0	2.068	338.15
70	12.967	392.3	2.094	13.242	392.2	2.091	13.518	392.0	2.089	13.795	391.9	2.086	14.072	391.8	2.084	14.350	391.7	2.082	343.15
75	12.753	396.9	2.107	13.023	396.8	2.105	13.294	396.7	2.102	13.566	396.6	2.100	13.838	396.5	2.097	14.110	396.4	2.095	348.15
80	12.547	401.6	2.121	12.813	401.5	2.118	13.079	401.4	2.116	13.345	401.3	2.113	13.612	401.1	2.111	13.879	401.0	2.108	353.15
85	12.349	406.3	2.134	12.610	406.2	2.131	12.871	406.1	2.129	13.133	406.0	2.126	13.395	405.8	2.124	13.658	405.7	2.122	358.15
90	12.158	411.0	2.147	12.415	410.9	2.144	12.672	410.8	2.142	12.929	410.7	2.140	13.186	410.6	2.137	13.444	410.5	2.135	363.15
95	11.974	415.7	2.160	12.226	415.6	2.157	12.479	415.5	2.155	12.731	415.4	2.153	12.984	415.3	2.150	13.238	415.2	2.148	368.15
100	11.796	420.5	2.173	12.044	420.4	2.170	12.292	420.3	2.168	12.541	420.2	2.165	12.790	420.1	2.163	13.039	420.0	2.161	373.15
105	11.624	425.3	2.186	11.868	425.2	2.183	12.112	425.1	2.181	12.357	425.0	2.178	12.602	424.9	2.176	12.847	424.8	2.174	378.15
110	11.457	430.1	2.198	11.698	430.0	2.196	11.938	429.9	2.193	12.179	429.8	2.191	12.420	429.8	2.189	12.661	429.7	2.186	383.15
115	11.296	435.0	2.211	11.532	434.9	2.208	11.769	434.8	2.206	12.006	434.7	2.204	12.243	434.6	2.201	12.481	434.6	2.199	388.15
120	11.140	439.8	2.223	11.373	439.8	2.221	11.606	439.7	2.218	11.839	439.6	2.216	12.073	439.5	2.214	12.307	439.5	2.211	393.15
125	10.988	444.8	2.236	11.217	444.7	2.233	11.447	444.6	2.231	11.677	444.5	2.229	11.907	444.5	2.226	12.138	444.4	2.224	398.15
130	10.841	449.7	2.248	11.067	449.7	2.246	11.293	449.6	2.243	11.520	449.5	2.241	11.747	449.4	2.239	11.974	449.4	2.236	403.15

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	5.5			5.6			5.7			5.8			5.9			6.0			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
-10	21.001	317.0	1.832	21.449	316.7	1.829	21.901	316.4	1.826	22.064	318.0	1.830	22.513	317.7	1.827	22.965	317.4	1.824	263.15
-8	20.736	319.0	1.839	21.176	318.7	1.836	21.618	318.4	1.833	21.784	320.0	1.838	22.225	319.7	1.835	22.668	319.4	1.832	265.15
-6	20.481	320.9	1.846	20.913	320.6	1.843	21.347	320.3	1.841	21.515	322.0	1.844	21.947	321.7	1.842	22.382	321.4	1.839	267.15
-4	20.235	322.9	1.854	20.659	322.6	1.851	21.086	322.3	1.848	21.515	322.0	1.845	21.947	321.7	1.842	22.382	321.4	1.839	269.15
-2	19.999	324.8	1.861	20.415	324.5	1.858	20.835	324.2	1.855	21.256	323.9	1.852	21.680	323.6	1.849	22.107	323.3	1.847	271.15
0	19.770	326.7	1.868	20.180	326.4	1.865	20.592	326.1	1.862	21.006	325.9	1.859	21.423	325.6	1.857	21.842	325.3	1.854	273.15
2	19.549	328.6	1.875	19.952	328.3	1.872	20.358	328.1	1.869	20.765	327.8	1.866	21.175	327.5	1.864	21.587	327.2	1.861	275.15
4	19.335	330.5	1.882	19.732	330.2	1.879	20.131	330.0	1.876	20.532	329.7	1.873	20.935	329.4	1.871	21.341	329.2	1.868	277.15
6	19.128	332.4	1.888	19.519	332.1	1.886	19.912	331.9	1.883	20.307	331.6	1.880	20.704	331.4	1.877	21.103	331.1	1.875	279.15
8	18.927	334.3	1.895	19.312	334.0	1.892	19.700	333.8	1.890	20.089	333.5	1.887	20.479	333.3	1.884	20.872	333.0	1.882	281.15
10	18.732	336.1	1.902	19.112	335.9	1.899	19.494	335.7	1.896	19.877	335.4	1.894	20.262	335.2	1.891	20.649	334.9	1.888	283.15
12	18.543	338.0	1.908	18.918	337.8	1.906	19.294	337.5	1.903	19.672	337.3	1.900	20.051	337.1	1.898	20.433	336.8	1.895	285.15
14	18.359	339.9	1.915	18.729	339.6	1.912	19.100	339.4	1.909	19.473	339.2	1.907	19.847	339.0	1.904	20.223	338.7	1.902	287.15
16	18.180	341.7	1.921	18.545	341.5	1.919	18.911	341.3	1.916	19.279	341.1	1.913	19.648	340.8	1.911	20.019	340.6	1.908	289.15
18	18.006	343.6	1.928	18.366	343.4	1.925	18.728	343.2	1.922	19.091	342.9	1.920	19.455	342.7	1.917	19.821	342.5	1.915	291.15
20	17.837	345.4	1.934	18.192	345.2	1.931	18.549	345.0	1.929	18.908	344.8	1.926	19.267	344.6	1.924	19.629	344.4	1.921	293.15
25	17.432	350.1	1.950	17															

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	6.5			7.0			7.5			8.0			8.5			9.0			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
-6	24.928	317.8	1.818															267.15	
-4	24.597	319.8	1.826	26.888	318.2	1.812												269.15	
-2	24.280	321.8	1.833	26.523	320.3	1.820	28.842	318.7	1.808									271.15	
0	23.975	323.8	1.840	26.173	322.4	1.828	28.442	320.8	1.815	30.788	319.3	1.804						273.15	
2	23.682	325.8	1.848	25.838	324.4	1.835	28.060	322.9	1.823	30.352	321.4	1.811	32.723	319.9	1.800			275.15	
4	23.400	327.8	1.855	25.516	326.4	1.843	27.693	325.0	1.831	29.937	323.6	1.819	32.252	322.1	1.808	34.645	320.5	1.797	277.15
6	23.127	329.8	1.862	25.206	328.4	1.850	27.341	327.1	1.838	29.539	325.7	1.827	31.803	324.2	1.816	34.139	322.7	1.805	279.15
8	22.864	331.7	1.869	24.907	330.4	1.857	27.004	329.1	1.845	29.158	327.8	1.834	31.373	326.4	1.823	33.656	324.9	1.813	281.15
10	22.610	333.7	1.876	24.619	332.4	1.864	26.678	331.1	1.853	28.792	329.8	1.842	30.962	328.5	1.831	33.195	327.1	1.821	283.15
12	22.365	335.6	1.883	24.341	334.4	1.871	26.365	333.2	1.860	28.440	331.9	1.849	30.568	330.6	1.838	32.754	329.3	1.828	285.15
14	22.126	337.6	1.889	24.072	336.4	1.878	26.063	335.2	1.867	28.101	333.9	1.856	30.189	332.7	1.846	32.332	331.4	1.836	287.15
16	21.896	339.5	1.896	23.812	338.3	1.885	25.771	337.2	1.874	27.774	336.0	1.863	29.825	334.7	1.853	31.926	333.5	1.843	289.15
18	21.672	341.4	1.903	23.560	340.3	1.891	25.489	339.1	1.880	27.459	338.0	1.870	29.474	336.8	1.860	31.537	335.6	1.850	291.15
20	21.454	343.3	1.909	23.316	342.2	1.898	25.216	341.1	1.887	27.155	340.0	1.877	29.136	338.8	1.867	31.162	337.7	1.857	293.15
25	20.937	348.1	1.925	22.737	347.0	1.914	24.569	346.0	1.904	26.436	345.0	1.894	28.340	343.9	1.884	30.282	342.8	1.875	298.15
30	20.454	352.8	1.941	22.197	351.8	1.930	23.969	350.9	1.920	25.772	349.9	1.910	27.606	348.9	1.901	29.474	347.9	1.891	303.15
35	20.000	357.5	1.956	21.692	356.6	1.946	23.409	355.7	1.936	25.153	354.8	1.926	26.926	353.9	1.917	28.727	352.9	1.908	308.15
40	19.573	362.2	1.972	21.217	361.4	1.961	22.885	360.5	1.951	24.576	359.7	1.942	26.292	358.8	1.933	28.034	357.9	1.924	313.15
45	19.170	366.9	1.986	20.770	366.1	1.976	22.392	365.3	1.966	24.034	364.5	1.957	25.699	363.7	1.948	27.387	362.8	1.940	318.15
50	18.788	371.6	2.001	20.348	370.8	1.991	21.927	370.1	1.981	23.525	369.3	1.972	25.143	368.5	1.963	26.781	367.8	1.955	323.15
55	18.425	376.3	2.015	19.947	375.6	2.005	21.487	374.8	1.996	23.043	374.1	1.987	24.618	373.4	1.978	26.211	372.7	1.970	328.15
60	18.080	381.0	2.030	19.567	380.3	2.020	21.069	379.6	2.010	22.588	378.9	2.001	24.122	378.2	1.993	25.673	377.5	1.985	333.15
65	17.751	385.7	2.044	19.205	385.0	2.034	20.673	384.4	2.024	22.155	383.7	2.016	23.652	383.1	2.007	25.165	382.4	1.999	338.15
70	17.436	390.4	2.058	18.859	389.8	2.048	20.295	389.2	2.038	21.744	388.5	2.030	23.206	387.9	2.021	24.682	387.3	2.014	343.15
75	17.135	395.1	2.071	18.529	394.5	2.061	19.934	393.9	2.052	21.351	393.4	2.044	22.781	392.8	2.036	24.223	392.2	2.028	348.15
80	16.847	399.8	2.085	18.212	399.3	2.075	19.589	398.7	2.066	20.976	398.2	2.057	22.375	397.6	2.049	23.786	397.1	2.042	353.15
85	16.570	404.6	2.098	17.909	404.1	2.089	19.258	403.5	2.080	20.618	403.0	2.071	21.988	402.5	2.063	23.368	401.9	2.055	358.15
90	16.303	409.4	2.111	17.618	408.9	2.102	18.941	408.4	2.093	20.274	407.9	2.085	21.616	407.4	2.077	22.969	406.8	2.069	363.15
95	16.047	414.2	2.125	17.337	413.7	2.115	18.636	413.2	2.106	19.944	412.7	2.098	21.260	412.2	2.090	22.586	411.8	2.082	368.15
100	15.800	419.0	2.138	17.068	418.6	2.128	18.343	418.1	2.119	19.627	417.6	2.111	20.918	417.2	2.103	22.219	416.7	2.096	373.15
105	15.562	423.9	2.150	16.808	423.4	2.141	18.061	423.0	2.132	19.321	422.5	2.124	20.590	422.1	2.116	21.866	421.6	2.109	378.15
110	15.332	428.7	2.163	16.557	428.3	2.154	17.788	427.9	2.145	19.027	427.5	2.137	20.273	427.0	2.129	21.526	426.6	2.122	383.15
115	15.109	433.7	2.176	16.314	433.2	2.167	17.526	432.8	2.158	18.743	432.4	2.150	19.968	432.0	2.142	21.199	431.6	2.135	388.15
120	14.894	438.6	2.189	16.080	438.2	2.179	17.272	437.8	2.171	18.469	437.4	2.163	19.673	437.0	2.155	20.883	436.6	2.148	393.15
125	14.686	443.6	2.201	15.853	443.2	2.192	17.026	442.8	2.183	18.204	442.4	2.175	19.389	442.0	2.168	20.579	441.7	2.160	398.15
130	14.484	448.6	2.214	15.633	448.2	2.205	16.788	447.8	2.196	17.948	447.5	2.188	19.113	447.1	2.180	20.284	446.7	2.173	403.15
135	14.288	453.6	2.226	15.421	453.2	2.217	16.558	452.9	2.208	17.700	452.5	2.200	18.847	452.2	2.193	19.999	451.8	2.186	408.15
140	14.099	458.7	2.238	15.214	458.3	2.229	16.335	458.0	2.221	17.460	457.6	2.213	18.589	457.3	2.205	19.724	456.9	2.198	413.15
145	13.914	463.8	2.251	15.014	463.4	2.242	16.118	463.1	2.233	17.226	462.8	2.225	18.339	462.4	2.218	19.457	462.1	2.211	418.15
150	13.735	468.9	2.263	14.819	468.6	2.254	15.908	468.3	2.245	17.000	467.9	2.237	18.097	467.6	2.230	19.198	467.3	2.223	423.15

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	9.5			10.0			10.5			11.0			11.5			12.0			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
6	36.553	321.2	1.794															279.15	
8	36.011	323.5	1.803	38.444	322.0	1.792												281.15	
10	35.494	325.7	1.810	37.866	324.3	1.800	40.316	322.8	1.791									283.15	
12	35.002	327.9	1.818	37.317	326.5	1.808	39.703	325.1	1.799	42.168	323.6	1.789	44.718	322.1	1.780			285.15	
14	34.531	330.1	1.826	36.793	328.7	1.816	39.121	327.4	1.807	41.520	326.0	1.798	43.998	324.5	1.789	46.559	323.1	1.780	287.15
16	34.081	332.2	1.833	36.293	331.0	1.824	38.566	329.6	1.815	40.906	328.3	1.806	43.316	326.9	1.797	45.804	325.5	1.788	289.15
18	33.649	334.4	1.841	35.815	333.1	1.831	38.037	331.9	1.822	40.321	330.6	1.813	42.670	329.2	1.805	45.090	327.9	1.796	291.15
20	33.234	336.5	1.848	35.356	335.3	1.839	37.531	334.1	1.830	39.763	332.8	1.821	42.055	331.5	1.813	44.412	330.2	1.804	293.15
25	32.263	341.7	1.866	34.288	340.6	1.857	36.357	339.5	1.848	38.473	338.3	1.840	40.639	337.2	1.832	42.859	336.0	1.824	298.15
30	31.376	346.9	1.883	33.315	345.9	1.874	35.292	344.8	1.866	37.309	343.7	1.858	39.369	342.7	1.850	41.473	341.6	1.842	303.15
35	30.559	352.0	1.899	32.422	351.0	1.891	34.319	350.0	1.883	36.250	349.1	1.875	38.218	348.1	1.868	40.223	347.0	1.860	308.15
40	29.803	357.0	1.916	31.599	356.1	1.908	33.424	355.0	1.900	35.279	354.3	1.892	37.166	353.4	1.885	39.085	352.4	1.878	313.15
45	29.099	362.0	1.931	30.835	361.2	1.924	32.596	360.3	1.916	34.384	359.5	1.908	36.199	358.6	1.901	38.043	357.7	1.894	318.15
50	28.441	367.0	1.947	30.122	366.2	1.939	31.826	365.4	1.932	33.553	364.6	1.924	35.304	363.8	1.917	37.080	362.9	1.911	323.15
55	27.823	371.9	1.962	29.455	371.2	1.954	31.106	370.4	1.947	32.778	369.7	1.940	34.472	368.9	1.933	36.188	368.1	1.927	328.15
60	27.242	376.9	1.977	28.827	376.1	1.970	30.431	375.4	1.962	32.053	374.7	1.955	33.695	374.0	1.949	35.355	373.3	1.942	333.15
65	26.692	381.8	1.992	28.236	381.1	1.984	29.796	380.4	1.977	31.372	379.8	1.970	32.965	379.1	1.964	34.576	378.4	1.957	338.15
70	26.172	386.7	2.006	27.676	386.0	1.999	29.196	385.4	1.992	30.730	384.8	1.985	32.279	384.1	1.979	33.844	383.5	1.972	343.15
75	25.678	391.6	2.020	27.146	391.0	2.013	28.627	390.4	2.006	30.122	389.8	2.000	31.631	389.2	1.993	33.154			

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	12.5			13.0			13.5			14.0			14.5			15.0			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
16	48.375	324.0	1.779	51.038	322.5	1.771												289.15	
18	47.586	326.5	1.788	50.164	325.0	1.779	52.834	323.6	1.771									291.15	
20	46.839	328.9	1.796	49.341	327.5	1.788	51.925	326.1	1.779	54.598	324.6	1.771	57.368	323.1	1.763			293.15	
25	45.136	334.7	1.816	47.473	333.5	1.808	49.875	332.2	1.800	52.347	330.9	1.793	54.894	329.6	1.785	57.523	328.2	1.777	298.15
30	43.624	340.4	1.835	45.826	339.3	1.827	48.080	338.1	1.820	50.391	337.0	1.813	52.762	335.8	1.805	55.197	334.5	1.798	303.15
35	42.268	346.0	1.853	44.355	345.0	1.846	46.486	343.9	1.839	48.664	342.8	1.832	50.891	341.7	1.825	53.170	340.6	1.818	308.15
40	41.039	351.5	1.870	43.028	350.5	1.864	45.054	349.5	1.857	47.120	348.5	1.850	49.226	347.5	1.844	51.376	346.5	1.837	313.15
45	39.916	356.8	1.887	41.819	355.9	1.881	43.755	355.0	1.874	45.724	354.1	1.868	47.728	353.1	1.862	49.768	352.2	1.855	318.15
50	38.882	362.1	1.904	40.711	361.3	1.897	42.567	360.4	1.891	44.452	359.6	1.885	46.367	358.7	1.879	48.313	357.8	1.873	323.15
55	37.926	367.4	1.920	39.688	366.6	1.914	41.474	365.8	1.908	43.285	365.0	1.902	45.122	364.2	1.896	46.985	363.3	1.890	328.15
60	37.036	372.5	1.936	38.738	371.8	1.930	40.461	371.1	1.924	42.206	370.3	1.918	43.974	369.5	1.912	45.765	368.8	1.906	333.15
65	36.205	377.7	1.951	37.853	377.0	1.945	39.519	376.3	1.939	41.205	375.6	1.933	42.911	374.9	1.928	44.637	374.2	1.922	338.15
70	35.426	382.8	1.966	37.024	382.2	1.960	38.638	381.5	1.954	40.271	380.8	1.949	41.921	380.2	1.943	43.589	379.5	1.938	343.15
75	34.692	387.9	1.981	36.244	387.3	1.975	37.812	386.7	1.969	39.395	386.0	1.964	40.995	385.4	1.958	42.610	384.8	1.953	348.15
80	33.999	393.0	1.995	35.510	392.4	1.990	37.034	391.8	1.984	38.572	391.2	1.979	40.125	390.6	1.973	41.692	390.0	1.968	353.15
85	33.343	398.1	2.010	34.815	397.5	2.004	36.299	397.0	1.999	37.796	396.4	1.993	39.306	395.8	1.988	40.829	395.3	1.983	358.15
90	32.720	403.2	2.024	34.156	402.6	2.018	35.603	402.1	2.013	37.062	401.6	2.008	38.532	401.0	2.002	40.014	400.5	1.997	363.15
95	32.127	408.3	2.038	33.529	407.8	2.032	34.942	407.2	2.027	36.365	406.7	2.022	37.799	406.2	2.017	39.243	405.7	2.012	368.15
100	31.561	413.3	2.051	32.932	412.9	2.046	34.312	412.4	2.041	35.702	411.9	2.036	37.102	411.4	2.031	38.511	410.9	2.026	373.15
105	31.021	418.4	2.065	32.362	418.0	2.060	33.712	417.5	2.054	35.071	417.0	2.049	36.439	416.6	2.044	37.815	416.1	2.039	378.15
110	30.504	423.5	2.078	31.817	423.1	2.073	33.139	422.6	2.068	34.468	422.2	2.063	35.806	421.7	2.058	37.152	421.3	2.053	383.15
115	30.008	428.6	2.092	31.295	428.2	2.086	32.590	427.8	2.081	33.892	427.4	2.076	35.201	426.9	2.071	36.518	426.5	2.067	388.15
120	29.533	433.8	2.105	30.795	433.4	2.100	32.063	433.0	2.094	33.339	432.5	2.089	34.622	432.1	2.085	35.911	431.7	2.080	393.15
125	29.075	438.9	2.118	30.313	438.5	2.113	31.558	438.1	2.108	32.809	437.7	2.103	34.066	437.3	2.098	35.330	436.9	2.093	398.15
130	28.635	444.1	2.131	29.850	443.7	2.125	31.072	443.3	2.120	32.299	442.9	2.116	33.533	442.6	2.111	34.772	442.2	2.106	403.15
135	28.210	449.3	2.143	29.404	448.9	2.138	30.604	448.5	2.133	31.809	448.2	2.129	33.020	447.8	2.124	34.236	447.4	2.119	408.15
140	27.800	454.5	2.156	28.974	454.1	2.151	30.153	453.8	2.146	31.337	453.4	2.141	32.526	453.1	2.137	33.720	452.7	2.132	413.15
145	27.405	459.7	2.169	28.559	459.4	2.164	29.717	459.1	2.159	30.881	458.7	2.154	32.049	458.4	2.149	33.222	458.0	2.145	418.15
150	27.022	465.0	2.181	28.157	464.7	2.176	29.297	464.3	2.171	30.441	464.0	2.166	31.590	463.7	2.162	32.743	463.3	2.158	423.15
155	26.652	470.3	2.194	27.769	470.0	2.189	28.890	469.7	2.184	30.016	469.3	2.179	31.145	469.0	2.175	32.279	468.7	2.170	428.15
160	26.294	475.6	2.206	27.393	475.3	2.201	28.497	475.0	2.196	29.605	474.7	2.192	30.716	474.4	2.187	31.831	474.1	2.183	433.15
165	25.946	481.0	2.218	27.029	480.7	2.213	28.116	480.4	2.209	29.206	480.1	2.204	30.300	479.8	2.199	31.398	479.5	2.195	438.15
170	25.609	486.4	2.231	26.676	486.1	2.226	27.747	485.8	2.221	28.820	485.5	2.216	29.898	485.2	2.212	30.978	484.9	2.207	443.15
175	25.282	491.8	2.243	26.334	491.5	2.238	27.388	491.2	2.233	28.446	490.9	2.228	29.507	490.7	2.224	30.572	490.4	2.220	448.15
180	24.964	497.3	2.255	26.001	497.0	2.250	27.040	496.7	2.245	28.083	496.4	2.241	29.129	496.2	2.236	30.177	495.9	2.232	453.15
185	24.656	502.7	2.267	25.678	502.5	2.262	26.702	502.2	2.257	27.730	501.9	2.253	28.761	501.7	2.248	29.794	501.4	2.244	458.15
190	24.355	508.3	2.279	25.363	508.0	2.274	26.374	507.8	2.269	27.387	507.5	2.265	28.404	507.2	2.260	29.422	507.0	2.256	463.15
195	24.063	513.8	2.291	25.058	513.6	2.286	26.055	513.3	2.281	27.054	513.1	2.277	28.056	512.8	2.272	29.061	512.6	2.268	468.15
200	23.778	519.4	2.303	24.760	519.2	2.298	25.744	518.9	2.293	26.730	518.7	2.289	27.719	518.5	2.284	28.710	518.2	2.280	473.15
205	23.501	525.1	2.315	24.470	524.8	2.310	25.441	524.6	2.305	26.414	524.4	2.301	27.390	524.1	2.296	28.368	523.9	2.292	478.15

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	15.5			16.0			16.5			17.0			17.5			18.0			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
24	60.799	325.5	1.765	63.668	324.0	1.758												297.15	
25	60.240	326.8	1.770	63.054	325.4	1.762	65.974	323.9	1.755									298.15	
30	57.701	333.3	1.791	60.279	332.0	1.784	62.937	330.6	1.777	65.681	329.3	1.770	68.519	327.9	1.763	71.461	326.5	1.756	303.15
35	55.504	339.4	1.812	57.897	338.3	1.805	60.353	337.1	1.798	62.875	335.9	1.792	65.469	334.6	1.785	68.141	333.4	1.779	308.15
40	53.571	345.4	1.831	55.813	344.4	1.824	58.107	343.3	1.818	60.454	342.2	1.812	62.857	341.1	1.806	65.321	339.9	1.800	313.15
45	51.846	351.2	1.849	53.964	350.3	1.843	56.124	349.3	1.837	58.327	348.3	1.831	60.577	347.2	1.825	62.875	346.2	1.820	318.15
50	50.291	356.9	1.867	52.303	356.0	1.861	54.350	355.1	1.855	56.344	354.2	1.850	58.555	353.2	1.844	60.717	352.3	1.839	323.15
55	48.877	362.5	1.884	50.797	361.7	1.878	52.747	360.8	1.873	54.729	360.0	1.867	56.742	359.1	1.862	58.789	358.2	1.857	328.15
60	47.581	368.0	1.901	49.421	367.2	1.895	51.287	366.4	1.890	53.180	365.6	1.885	55.100	364.8	1.879	57.049	364.0	1.874	333.15
65	46.385	373.4	1.917	48.154	372.7	1.912	49.946	372.0	1.906	51.761	371.2	1.901	53.600	370.5	1.896	55.464	369.7	1.891	338.15
70	45.276	378.8	1.933	46.982	378.1	1.927	48.708	377.4	1.922	50.454	376.7	1.917	52.221	376.0	1.913	54.010	375.3	1.908	343.15
75	44.242	384.1	1.948	45.891	383.5	1.943	47.558	382.8	1.938	49.242	382.2	1.933	50.945	381.5	1.928	52.667	380.8	1.924	348.15
80	43.275	389.4	1.963	44.872	388.8	1.958	46.485	388.2	1.953	48.114	387.6	1.949	49.759	386.9	1.944	51.421	386.3	1.939	353.15
85	42.366	394.7	1.978	43.916	394.1	1.973	45.480	393.5	1.968	47.059	392.9	1.964	48.651	392.3	1.959	50.259	391.7	1.955	358.15
90	41.509	399.9	1.992	43.016	399.4	1.988	44.535	398.8	1.983	46.067	398.3	1.978	47.613	397.7	1.974	49.171	397.1	1.970	363.15
95	40.699	405.2	2.007	42.166	404.6	2.002	43.644	404.1	1.998	45.134	403.6	1.993	46.635	403.0	1.989	48.149	402.5	1.984	368.15
100	39.931	410.4	2.021	41.361	409.9	2.016	42.801	409.4	2.012	44.251	408.9	2.007	45.712	408.4	2.003	47.184	407.9	1.999	373.15
105	39.201	415.6	2.035	40.596	415.1	2.030	42.001	414.7	2.026										

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)	
	Absolute Pressure (bar)																			
	18.5			19.0			19.5			20.0			20.5			21.0				
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S			
30	74.515	325.0	1.749	73.740	330.7	1.765	76.682	329.3	1.759	79.732	327.9	1.752	82.899	326.5	1.745	86.197	325.0	1.739	303.15	
35	70.895	332.1	1.772	70.446	337.6	1.787	73.116	336.3	1.781	75.865	335.1	1.775	78.699	333.8	1.769	81.625	332.5	1.763	308.15	
40	67.849	338.7	1.794	67.628	344.1	1.808	70.088	343.0	1.802	72.610	341.9	1.797	75.197	340.7	1.791	77.852	339.6	1.785	313.15	
45	65.224	345.1	1.814	65.168	350.3	1.828	67.462	349.3	1.822	69.805	348.3	1.817	72.198	347.3	1.811	74.646	346.3	1.806	318.15	
50	62.921	351.3	1.833	62.990	356.4	1.846	65.147	355.5	1.841	67.343	354.6	1.836	69.581	353.6	1.831	71.862	352.7	1.826	323.15	
55	60.871	357.3	1.852	61.037	362.3	1.864	63.078	361.5	1.859	65.152	360.6	1.854	67.261	359.8	1.850	69.406	358.9	1.845	328.15	
60	59.027	363.2	1.869	59.268	368.1	1.882	61.211	367.4	1.877	63.181	366.6	1.872	65.181	365.8	1.867	67.211	365.0	1.863	333.15	
65	57.353	368.9	1.886	57.654	373.9	1.898	59.510	373.1	1.894	61.391	372.4	1.889	63.297	371.6	1.885	65.228	370.9	1.880	338.15	
70	55.820	374.6	1.903	56.169	379.5	1.915	57.951	378.8	1.910	59.753	378.1	1.906	61.577	377.4	1.901	63.423	376.7	1.897	343.15	
75	54.408	380.2	1.919	56.697	385.0	1.930	56.511	384.4	1.926	58.244	383.7	1.922	59.996	383.1	1.917	61.766	382.4	1.913	348.15	
80	53.100	385.7	1.935	55.122	401.4	1.976	52.763	400.9	1.972	54.327	400.3	1.968	55.904	399.8	1.964	57.494	399.2	1.960	353.15	
85	51.882	391.1	1.950	48.667	407.4	1.995	50.162	406.8	1.990	51.667	406.3	1.986	53.184	405.8	1.982	54.713	405.3	1.979	358.15	
90	50.743	396.6	1.965	49.170	412.2	2.005	50.634	411.7	2.001	52.108	411.2	1.997	53.593	410.7	1.993	55.089	410.2	1.989	363.15	
95	49.674	402.0	1.980	48.231	417.6	2.019	49.656	417.1	2.015	51.091	416.7	2.011	52.536	416.2	2.007	53.990	415.7	2.004	368.15	
100	48.647	407.4	1.995	47.339	423.0	2.033	48.729	422.5	2.029	50.128	422.1	2.025	51.535	421.6	2.022	52.951	421.2	2.018	373.15	
105	47.716	412.7	2.009	46.492	428.3	2.047	47.848	427.9	2.043	49.213	427.5	2.039	50.585	427.0	2.035	51.966	426.6	2.032	378.15	
110	46.814	418.1	2.023	46.208	433.7	2.060	47.009	433.3	2.056	48.342	432.9	2.053	49.682	432.4	2.049	51.029	432.0	2.046	383.15	
115	45.958	423.4	2.037	46.208	438.7	2.074	46.208	438.7	2.070	47.511	438.3	2.066	48.821	437.9	2.063	50.137	437.5	2.059	388.15	
120	45.143	428.8	2.050	45.442	444.4	2.087	45.442	444.1	2.083	46.717	443.7	2.080	47.998	443.3	2.076	49.285	442.9	2.073	393.15	
125	44.365	434.1	2.064	44.779	449.8	2.100	44.709	449.5	2.096	45.957	449.1	2.093	47.211	448.7	2.089	48.471	448.4	2.086	398.15	
130	43.622	439.5	2.077	44.005	455.2	2.113	44.005	454.9	2.109	45.228	454.5	2.106	46.457	454.2	2.102	47.691	453.8	2.099	403.15	
135	42.911	444.8	2.091	43.328	460.7	2.126	43.328	460.3	2.122	44.528	460.0	2.119	45.733	459.6	2.115	46.942	459.3	2.112	408.15	
140	42.228	450.2	2.104	42.678	466.1	2.139	42.678	465.8	2.135	43.855	465.4	2.132	45.037	465.1	2.128	46.223	464.8	2.125	413.15	
145	41.573	455.6	2.117	42.051	471.6	2.151	42.051	471.2	2.148	43.207	470.9	2.144	44.367	470.6	2.141	45.531	470.3	2.138	418.15	
150	40.943	461.0	2.129	41.446	477.0	2.164	41.446	476.7	2.160	42.582	476.4	2.157	43.722	476.1	2.154	44.865	475.8	2.150	423.15	
155	40.336	466.4	2.142	40.863	482.5	2.176	40.863	482.2	2.173	41.979	482.0	2.169	43.099	481.7	2.166	44.222	481.4	2.163	428.15	
160	39.751	471.9	2.155	40.299	487.8	2.189	40.299	487.8	2.185	41.397	487.5	2.182	42.498	487.2	2.179	43.602	486.9	2.175	433.15	
165	39.187	477.3	2.167	39.750	493.6	2.201	39.750	493.4	2.198	40.833	493.1	2.194	41.916	492.8	2.191	43.002	492.5	2.188	438.15	
170	38.642	482.8	2.180	39.226	499.2	2.213	39.226	499.0	2.210	40.288	498.7	2.207	41.354	498.4	2.203	42.422	498.1	2.200	443.15	
175	38.114	488.4	2.192	38.714	504.9	2.226	38.714	504.6	2.222	39.760	504.3	2.219	40.809	504.1	2.216	41.861	503.8	2.212	448.15	
180	37.604	493.9	2.205	38.218	510.5	2.238	38.218	510.3	2.234	39.249	510.0	2.231	40.282	509.7	2.228	41.317	509.5	2.225	453.15	
185	37.109	499.5	2.217	37.737	516.2	2.250	37.737	516.0	2.246	38.752	515.7	2.243	39.770	515.5	2.240	40.790	515.2	2.237	458.15	
190	36.630	505.1	2.229	37.270	521.9	2.262	37.270	521.7	2.258	38.270	521.4	2.255	39.273	521.2	2.252	40.278	521.0	2.249	463.15	
195	36.165	510.8	2.241	36.815	527.7	2.274	36.815	527.5	2.270	37.802	527.2	2.267	38.790	527.0	2.264	39.781	526.7	2.261	468.15	
200	35.714	516.5	2.253	36.374	533.5	2.286	36.374	533.3	2.282	37.346	533.0	2.279	38.321	532.8	2.276	39.298	532.6	2.273	473.15	
205	35.275	522.2	2.265	35.944	539.3	2.298	35.944	539.1	2.294	36.904	538.9	2.291	37.865	538.6	2.288	38.828	538.4	2.285	478.15	
210	34.849	527.9	2.277	35.526	545.2	2.309	35.526	545.0	2.306	36.473	544.7	2.303	37.421	544.5	2.300	38.371	544.3	2.297	483.15	
215	34.435	533.7	2.289																	488.15
220	34.031	539.5	2.301																	493.15
225	33.638	545.4	2.313																	498.15

Temp (°C)	D = Density (kg/m³), H = Enthalpy (kJ/kg), S = Entropy (kJ/kg.K)																		Temp (K)
	Absolute Pressure (bar)																		
	21.5			22.0			25.0			30.0			35.0			40.0			
D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S		
36	88.548	325.0	1.737	92.042	323.5	1.730													309.15
40	84.651	331.2	1.757	87.786	329.8	1.750													313.15
45	80.582	338.4	1.780	83.391	337.2	1.774	102.305	329.2	1.739										318.15
50	77.151	345.2	1.801	79.716	344.1	1.795	96.618	337.1	1.763	134.073	322.5	1.704							323.15
55	74.189	351.7	1.821	76.564	350.7	1.816	91.975	344.5	1.786	124.082	332.1	1.734							328.15
60	71.588	358.0	1.840	73.809	357.1	1.835	88.060	351.4	1.807	116.578	340.6	1.760	155.965	326.7	1.707				333.15
65	69.272	364.1	1.858	71.365	363.3	1.854	84.680	358.1	1.827	110.577	348.4	1.783	143.904	336.7	1.736	193.576	320.8	1.680	338.15
70	67.186	370.1	1.876	69.172	369.4	1.871	81.712	364.6	1.846	105.586	355.8	1.804	134.937	345.6	1.762	174.114	332.9	1.716	343.15
75	65.292	376.0	1.893	67.184	375.3	1.888	79.069	370.8	1.864	101.323	362.8	1.825	127.812	353.7	1.786	161.028	342.9	1.745	348.15
80	63.557	381.8	1.909	65.368	381.1	1.905	76.689	377.0	1.881	97.609	369.5	1.844	121.914	361.3	1.808	151.172	351.9	1.770	353.15
85	61.958	387.5	1.925	63.697	386.8	1.921	74.528	383.0	1.898	94.322	376.1	1.862	116.893	368.5	1.828	143.286	360.1	1.794	358.15
90	60.477	393.1	1.941	62.152	392.5	1.937	72.549	388.9	1.915	91.380	382.4	1.880	112.531	375.5	1.847	136.732	367.8	1.815	363.15
95	59.097	398.7	1.956	60.715	398.1	1.952	70.726	394.7	1.930	88.718	388.7	1.897	108.680	382.2	1.866	131.138	375.2	1.835	368.15
100	57.807	404.2	1.971	59.372	403.7	1.967	69.036	400.4	1.946	86.291	394.8	1.913	105.239	388.7	1.883	126.269	382.3	1.854	373.15
105	56.596	409.7	1.986	58.114	409.2	1.982	67.464	406.1	1.961	84.062	400.8	1.930	102.131	395.1	1.900	121.966	389.1	1.872	378.15
110	55.455	415.2	2.000	56.929	414.7	1.997	65.993	411.8	1.976	82.003	406.7	1.945	99.302	401.4	1.917	118.116	395.8	1.890	383.15
115	54.376	420.7	2.014	55.810	420.2	2.011	64.612	417.4	1.991	80.090	412.6	1.960	96.707	407.6	1.933	114.637	402.3	1.907	388.15
120	53.355	426.2	2.028	54.752	425.7	2.025	63.311	423.1	2.005	78.306	418.5	1.975	94.313	413.7	1.948	111.468	408.7	1.923	393.15
125	52.384	431.6	2.042	53.746	431.2	2.039	62.083	428.6	2.019	76.634	424.								

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