

Steam Tables

Gauge Pressure		Absolute Pressure		Saturation Temperature t _s		Specific Enthalpy			Specific Volume Steam V _g			
						Water Sensible heat (h _f)	Evaporation Latent heat (h _{fg})	Water Sensible heat (h _f)	Evaporation Latent heat (h _{fg})			
bar g	psi g	bar a	psi a	°C	°F	KJ/kg	kJ/kg	Btu/lb	Btu/lb	m³/kg	ft³/lb	
VACUUM These figures are in inches of Mercury VACUUM	-0.96	28.4	0.05	0.725	32.9	91	138	2423	59	1042	28.2	452
	-0.91	27.0	0.1	1.45	45.8	114	192	2392	82	1029	14.7	236
	-0.86	25.5	0.15	2.18	54.0	129	226	2373	97	1020	10.0	160
	-0.81	24.0	0.2	2.90	60.1	140	251	2358	108	1014	7.56	123
	-0.76	22.5	0.25	3.63	65.0	149	272	2346	117	1009	6.20	99.3
	-0.71	21.1	0.3	4.35	69.1	156	289	2336	124	1004	5.23	83.8
	-0.66	19.6	0.35	5.08	72.7	163	304	2327	131	1000	4.53	72.3
	-0.61	18.1	0.4	5.80	75.9	169	318	2319	137	997	3.99	63.9
	-0.56	16.6	0.45	6.53	78.7	174	330	2312	142	994	3.58	57.3
	-0.51	15.1	0.5	7.25	81.3	178	341	2305	147	991	3.24	51.9
	-0.46	13.7	0.55	7.98	83.7	183	351	2299	151	988	2.96	47.4
	-0.41	12.2	0.6	8.70	85.9	187	360	2294	155	986	2.73	43.7
	-0.36	10.7	0.65	9.43	88.0	190	369	2288	159	984	2.54	40.7
	-0.31	9.24	0.7	10.2	90.0	194	377	2283	162	982	2.37	38.0
	-0.26	7.77	0.75	10.9	91.8	197	384	2279	165	980	2.22	35.6
	-0.21	6.29	0.8	11.6	93.5	200	392	2274	169	978	2.09	33.5
	-0.16	4.81	0.85	12.3	95.1	203	399	2270	172	976	1.97	31.6
	-0.11	3.34	0.9	13.1	96.7	206	405	2266	174	974	1.87	30.1
	-0.06	1.86	0.95	13.8	98.2	209	411	2262	177	972	1.78	28.5
	-0.01	0.38	1.0	14.5	99.6	211	418	2258	179	971	1.69	27.1
	0	0	1.013	14.696	100	212	419	2257	180	970	1.67	26.8
	0.1	1.45	1.11	16.1	103	217	430	2250	185	967	1.53	24.5
	0.2	2.90	1.21	17.5	105	221	441	2243	190	964	1.41	22.6
	0.3	4.35	1.31	19.0	107	225	450	2237	194	962	1.31	21.0
	0.4	5.80	1.41	20.5	110	230	460	2231	198	959	1.23	19.7
	0.5	7.25	1.51	21.9	112	234	468	2226	201	957	1.15	18.4
	0.6	8.70	1.61	23.4	114	237	476	2220	205	954	1.08	17.3
	0.7	10.2	1.71	24.8	115	239	484	2215	208	952	1.02	16.3
	0.8	11.6	1.81	26.3	117	243	492	2211	212	951	0.971	15.6
	0.9	13.1	1.91	27.7	119	246	499	2206	215	948	0.923	14.8
	1.0	14.5	2.01	29.2	120	248	506	2201	218	946	0.881	14.1
	1.1	16.0	2.11	30.6	122	252	512	2197	220	945	0.841	13.5
	1.2	17.4	2.21	32.1	123	253	519	2193	223	943	0.806	12.9
	1.3	18.9	2.31	33.5	125	257	525	2189	226	941	0.773	12.4
	1.4	20.3	2.41	35.0	126	259	531	2185	228	939	0.743	11.9
	1.5	21.8	2.51	36.4	128	262	536	2181	230	938	0.714	11.4
	1.6	23.2	2.61	37.9	129	264	542	2177	233	936	0.689	11.0
	1.7	24.7	2.71	39.3	130	266	547	2174	235	935	0.665	10.7
	1.8	26.1	2.81	40.8	131	268	552	2170	237	933	0.643	10.3
	1.9	27.6	2.91	42.2	133	271	557	2167	240	932	0.622	9.96
	2.0	29.0	3.01	43.7	134	273	562	2163	242	930	0.603	9.66
	2.2	31.9	3.21	46.6	136	277	572	2157	246	927	0.568	9.10
	2.4	34.8	3.41	49.5	138	280	581	2151	250	925	0.536	8.59
	2.6	37.7	3.61	52.4	140	284	589	2145	253	922	0.509	8.15
	2.8	40.6	3.81	55.3	142	288	597	2139	257	920	0.483	7.74
	3.0	43.5	4.01	58.2	144	289	605	2133	260	917	0.461	7.38
	3.2	46.4	4.21	61.1	146	293	613	2128	264	915	0.440	7.05
	3.4	49.3	4.41	64.0	147	297	620	2123	267	913	0.422	6.76
	3.6	52.2	4.61	66.9	149	298	627	2118	270	911	0.405	6.49
	3.8	55.1	4.81	69.8	150	302	634	2113	273	908	0.389	6.23
4.0	58.0	5.01	72.7	152	304	641	2108	276	906	0.374	5.99	
4.2	60.9	5.21	75.6	153	307	647	2104	278	905	0.361	5.78	
4.4	63.8	5.41	78.5	155	309	653	2099	281	902	0.348	5.57	
4.6	66.7	5.61	81.4	156	313	659	2095	283	901	0.336	5.38	
4.8	69.6	5.81	84.3	158	315	665	2090	286	899	0.325	5.21	
5.0	72.5	6.01	87.2	159	316	671	2086	289	897	0.315	5.01	
5.5	79.8	6.51	94.4	162	324	685	2076	295	893	0.292	4.68	
6.0	87.0	7.01	102	165	329	698	2066	300	888	0.272	4.36	
6.5	94.3	7.51	109	168	333	710	2057	305	884	0.255	4.09	
7.0	102	8.01	116	171	338	721	2048	310	880	0.240	3.84	
7.5	109	8.51	123	173	343	733	2039	315	877	0.227	3.64	
8.0	116	9.01	131	175	347	743	2031	319	873	0.215	3.44	
8.5	123	9.51	138	178	351	753	2023	324	870	0.204	3.27	
9.0	131	10.0	145	180	354	763	2015	328	866	0.194	3.11	
9.5	138	10.5	152	182	360	773	2008	332	863	0.185	2.96	
10.0	145	11.0	160	184	363	782	2000	336	860	0.177	2.84	
10.5	152	11.5	167	186	367	790	1993	340	857	0.171	2.74	
11.0	160	12.0	174	188	370	798	1986	344	854	0.163	2.61	
11.5	167	12.5	181	190	374	807	1979	347	851	0.157	2.51	
12.0	174	13.0	189	192	376	815	1973	350	848	0.151	2.42	
12.5	181	13.5	196	193	379	823	1966	354	845	0.146	2.34	
13.0	189	14.0	203	195	383	830	1960	357	843	0.141	2.26	
13.5	196	14.5	210	197	385	838	1953	360	840	0.136	2.18	
14.0	203	15.0	218	198	388	845	1947	363	837	0.132	2.11	
14.5	210	15.5	225	200	392	852	1941	366	834	0.128	2.05	
15.0	218	16.0	232	202	394	859	1935	369	832	0.124	1.99	
15.5	225	16.5	239	203	397	866	1929	372	829	0.120	1.92	
16.0	232	17.0	247	204	399	872	1923	375	827	0.117	1.87	
16.5	239	17.5	254	205	401	879	1918	378	824	0.114	1.83	
17.0	247	18.0	261	207	405	885	1912	381	822	0.110	1.76	
17.5	254	18.5	268	209	408	891	1907	383	820	0.108	1.73	

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Gauge Pressure		Absolute Pressure		Saturation Temperature t_s		Water Sensible heat (h_f)	Evaporation Latent heat (h_{fg})	Water Sensible heat (h_f)	Evaporation Latent heat (h_{fg})	Specific Volume Steam V_g	
bar g	psi g	bar a	psi a	°C	°F	KJ/kg	kJ/kg	Btu/lb	Btu/lb	m³/kg	ft³/lb
18.0	261	19.0	276	210	410	897	1901	386	817	0.105	1.68
18.0	268	19.5	283	211	412	903	1896	388	815	0.103	1.65
19.0	276	20.0	290	213	415	909	1890	391	813	0.100	1.60
19.0	283	20.5	297	214	417	915	1885	393	810	0.0972	1.56
20.0	290	21.0	305	215	419	920	1880	396	808	0.0949	1.52
21.0	305	22.0	319	217	423	931	1870	400	804	0.0906	1.45
22.0	319	23.0	334	220	428	942	1860	405	800	0.0868	1.39
23.0	334	24.0	348	222	432	952	1850	409	795	0.0832	1.33
24.0	348	25.0	363	224	435	962	1841	414	792	0.0797	1.28
25.0	363	26.0	377	226	439	972	1831	418	787	0.0768	1.23
26.0	377	27.0	392	228	442	982	1822	422	783	0.0740	1.19
27.0	392	28.0	406	230	446	991	1813	426	779	0.0714	1.14
28.0	406	29.0	421	232	450	1000	1804	430	776	0.0689	1.10
29.0	421	30.0	435	234	453	1009	1796	434	772	0.0666	1.07
30.0	435	31.0	450	236	457	1017	1787	437	768	0.0645	1.03
31.0	450	32.0	464	238	460	1026	1779	441	765	0.0625	1.00
32.0	464	33.0	479	239	462	1034	1770	445	761	0.0605	0.97
33.0	479	34.0	493	241	466	1042	1762	448	758	0.0587	0.94
34.0	493	35.0	508	243	469	1050	1754	451	754	0.0571	0.915
35.0	508	36.0	522	244	471	1058	1746	455	751	0.0554	0.887
36.0	522	37.0	537	246	475	1066	1737	458	747	0.0539	0.863
37.0	537	38.0	551	247	477	1073	1730	461	744	0.0524	0.839
38.0	551	39.0	566	249	480	1080	1722	464	740	0.0510	0.817
39.0	566	40.0	580	250	482	1087	1714	467	737	0.0498	0.798
40.0	580	41.0	595	252	486	1095	1706	471	733	0.0485	0.777
41.0	595	42.0	609	253	487	1102	1699	474	730	0.0473	0.758
42.0	609	43.0	624	255	491	1108	1691	476	727	0.0461	0.738
43.0	624	44.0	638	256	493	1115	1684	479	724	0.0451	0.722
44.0	638	45.0	653	258	496	1122	1676	482	721	0.0441	0.706
45.0	653	46.0	667	259	498	1129	1669	485	718	0.0431	0.690
46.0	667	47.0	682	260	500	1135	1662	488	715	0.0421	0.674
47.0	682	48.0	696	261	502	1142	1654	491	711	0.0412	0.660
48.0	696	49.0	711	263	505	1148	1647	494	708	0.0403	0.646
49.0	711	50.0	725	264	507	1155	1640	497	705	0.0395	0.633
50.0	725	51.0	740	265	509	1161	1633	499	702	0.0386	0.618
52.0	754	53.0	769	268	514	1173	1619	504	696	0.0371	0.594
54.0	783	55.0	798	270	518	1185	1605	509	690	0.0356	0.570
56.0	812	57.0	827	272	522	1197	1591	515	684	0.0343	0.549
58.0	841	59.0	856	274	525	1208	1577	519	678	0.0330	0.529
60.0	870	61.0	885	277	531	1219	1564	524	672	0.0319	0.511
62.0	899	63.0	914	279	534	1230	1551	529	667	0.0308	0.493
64.0	928	65.0	943	281	538	1241	1538	534	661	0.0297	0.476
66.0	957	67.0	972	283	541	1251	1525	538	656	0.0288	0.461
68.0	986	69.0	1001	285	545	1262	1512	543	650	0.0278	0.445
70.0	1015	71.0	1030	287	549	1272	1499	547	644	0.0270	0.432
72.0	1044	73.0	1059	289	552	1283	1486	552	639	0.0261	0.418
74.0	1073	75.0	1088	291	556	1293	1473	556	633	0.0253	0.405
76.0	1102	77.0	1117	292	559	1303	1460	560	628	0.0246	0.394
78.0	1131	79.0	1146	294	561	1312	1447	564	622	0.0239	0.383
80.0	1160	81.0	1175	296	565	1322	1435	568	617	0.0232	0.372
82.0	1189	83.0	1204	298	568	1331	1422	572	611	0.0226	0.362
84.0	1218	85.0	1233	299	570	1341	1410	576	606	0.0219	0.351
86.0	1247	87.0	1262	301	574	1350	1398	580	601	0.0213	0.341
88.0	1276	89.0	1291	302	576	1359	1385	584	595	0.0208	0.333
90.0	1305	91.0	1320	304	579	1368	1368	588	590	0.0202	0.324
92.0	1334	93.0	1349	305	581	1377	1360	592	585	0.0197	0.316
94.0	1363	95.0	1378	307	585	1386	1348	596	580	0.0192	0.308
96.0	1392	97.0	1407	309	588	1395	1336	600	574	0.0187	0.300
98.0	1421	99.0	1436	310	590	1404	1323	604	569	0.0183	0.293
100.0	1450	101.0	1465	312	594	1412	1311	607	564	0.0178	0.285
105.0	1523	106.0	1537	315	599	1433	1280	616	550	0.0168	0.269
110.0	1595	111.0	1610	319	606	1454	1249	625	537	0.0158	0.253
115.0	1668	116.0	1683	322	612	1475	1218	634	524	0.0149	0.239
120.0	1741	121.0	1755	325	617	1495	1188	643	511	0.0141	0.226
125.0	1813	126.0	1828	328	622	1515	1157	651	497	0.0133	0.213
130.0	1886	131.0	1900	331	628	1535	1125	660	484	0.0126	0.202
135.0	1958	136.0	1973	334	633	1555	1093	668	470	0.0120	0.192
140.0	2031	141.0	2045	337	639	1575	1060	677	456	0.0114	0.183
145.0	2103	146.0	2118	340	644	1595	1027	686	442	0.0108	0.173
150.0	2176	151.0	2190	343	649	1614	994	694	427	0.0102	0.163
155.0	2248	156.0	2263	345	653	1634	960	702	413	0.00972	0.156
160.0	2321	161.0	2335	348	658	1654	925	711	398	0.00922	0.148
165.0	2393	166.0	2408	350	662	1674	888	720	382	0.00875	0.140
170.0	2466	171.0	2480	353	667	1694	850	728	365	0.00829	0.133
175.0	2538	176.0	2553	355	671	1715	811	737	349	0.00785	0.126
180.0	2611	181.0	2625	357	675	1736	769	746	331	0.00743	0.119
185.0	2683	186.0	2698	360	680	1759	726	756	312	0.00701	0.112
190.0	2756	191.0	2770	362	684	1782	679	766	292	0.00660	0.106
195.0	2828	196.0	2843	364	687	1806	628	776	270	0.00619	0.0992
200.0	2901	201.0	2915	366	691	1833	562	788	242	0.00577	0.0924