

Steam Tables

TEMPERATURE		ABSOLUTE PRESSURE				VACUUM		TEMPERATURE		ABSOLUTE PRESSURE				VACUUM	
°C	°F	mbar	mm Hg.	psia	inch Hg.	cm Hg.	inch Hg.	°C	°F	mbar	mm Hg.	psia	inch Hg.	cm Hg.	inch Hg.
4.4	40	8.39	6.29	0.1217	0.248	75.371	29.673	28.3	83	38.53	28.9	0.5588	1.138	73.11	28.783
5	41	8.73	6.55	0.1265	0.258	75.345	29.663	28.9	84	39.73	29.8	0.5771	1.173	73.02	28.748
5.6	42	9.07	6.80	0.1315	0.268	75.320	29.553	29	84.2	40.73	30.5	0.5907	1.203	72.94	28.718
6	42.8	9.35	7.01	0.1356	0.276	75.299	29.645	29.4	85	41.07	30.8	0.5959	1.213	72.92	28.708
6.1	43	9.43	7.07	0.1367	0.278	75.293	29.643	30	86	42.40	31.8	0.6152	1.253	72.82	28.668
6.7	44	9.79	7.34	0.1420	0.289	75.266	29.632	30.6	87	43.73	32.8	0.6351	1.293	72.72	28.628
7	44.6	10.00	7.50	0.1450	0.295	75.250	29.626	31	87.8	44.93	33.7	0.6517	1.327	72.63	28.594
7.2	45	10.17	7.63	0.1475	0.300	75.237	29.621	31.1	88	45.20	33.9	0.6556	1.335	72.61	28.586
7.8	46	10.56	7.92	0.1532	0.312	75.208	29.609	31.7	89	46.67	35.0	0.6766	1.378	72.50	28.543
8	46.4	10.71	8.03	0.1553	0.316	75.197	29.605	32	89.6	47.60	35.7	0.6903	1.406	72.43	28.515
8.3	47	10.97	8.23	0.1591	0.324	75.177	29.597	32.2	90	48.13	36.1	0.6982	1.422	72.39	28.499
8.9	48	11.40	8.55	0.1653	0.336	75.145	29.585	32.8	91	49.73	37.3	0.7204	1.467	72.27	28.454
9	48.2	11.47	8.60	0.1663	0.339	75.140	29.582	33	91.4	50.27	37.7	0.7290	1.484	72.23	28.437
9.4	49	11.83	8.87	0.1716	0.349	75.113	29.572	33.3	92	51.20	38.4	0.7432	1.513	72.16	28.408
10	50	12.28	9.21	0.1781	0.363	75.079	29.558	33.9	93	52.80	39.6	0.7666	1.561	72.04	28.360
10.6	51	12.75	9.56	0.1849	0.376	75.044	29.545	34	93.2	53.20	39.9	0.7715	1.571	72.01	28.350
11	51.8	13.12	9.84	0.1903	0.387	75.016	29.534	34.4	94	54.53	40.9	0.7906	1.610	71.91	28.311
11.1	52	13.23	9.92	0.1918	0.391	75.008	29.530	35	95	56.27	42.2	0.8153	1.660	71.78	28.261
11.7	53	13.72	10.29	0.1990	0.405	74.971	29.516	35.6	96	58.00	43.5	0.8407	1.712	71.65	28.209
12	53.6	14.03	10.52	0.2034	0.414	74.948	29.507	36	96.8	59.47	44.6	0.8624	1.756	71.54	28.165
12.2	54	14.23	10.67	0.2064	0.420	74.933	29.501	36.1	97	59.73	44.8	0.8668	1.765	71.52	28.156
12.8	55	14.76	11.07	0.2141	0.436	74.893	29.485	36.7	98	61.60	46.2	0.8935	1.819	71.38	28.102
13	55.4	14.97	11.23	0.2172	0.442	74.877	29.475	37	98.6	62.80	47.1	0.9108	1.854	71.29	28.067
13.3	56	15.31	11.48	0.2220	0.452	74.852	29.469	37.2	99	63.47	47.6	0.9210	1.875	71.24	28.046
13.9	57	15.87	11.90	0.2302	0.469	74.810	29.452	37.8	100	65.47	49.1	0.9492	1.933	71.09	27.988
14	57.2	15.99	11.99	0.2318	0.472	74.801	29.449	38	100.4	66.27	49.7	0.9610	1.957	71.03	27.964
14.4	58	16.45	12.34	0.2386	0.486	74.766	29.435	38.3	101	67.46	50.6	0.9781	1.992	70.94	27.929
15	59	17.05	12.79	0.2473	0.504	74.721	29.417	38.9	102	69.46	52.1	1.0078	2.052	70.79	27.869
15.6	60	17.67	13.25	0.2563	0.522	74.675	29.399	39	102.2	69.85	52.4	1.0132	2.065	70.76	27.856
16	60.8	18.19	13.64	0.2638	0.537	74.634	29.384	39.4	103	71.60	53.7	1.0382	2.114	70.63	27.807
16.1	61	18.37	13.78	0.2665	0.541	74.622	29.380	40	104	73.73	55.3	1.0695	2.178	70.47	27.743
16.7	62	18.97	14.23	0.2751	0.560	74.577	29.361	40.6	105	76.00	57.0	1.1016	2.243	70.30	27.678
17	62.6	19.33	14.50	0.2804	0.571	74.550	29.350	41	105.8	77.73	58.3	1.1273	2.297	70.17	27.624
17.2	63	19.65	14.74	0.2850	0.580	74.526	29.341	41.1	106	78.3	58.7	1.1345	2.310	70.13	27.611
17.8	64	20.35	15.26	0.2951	0.601	74.474	29.320	41.7	107	80.5	60.4	1.1683	2.379	69.96	27.542
18	64.4	20.67	15.50	0.2997	0.610	74.450	29.311	42	107.6	82.0	61.5	1.1892	2.421	69.85	27.500
18.3	65	21.07	15.80	0.3056	0.622	74.420	29.299	42.2	108	82.9	62.2	1.2029	2.449	69.78	27.472
18.9	66	21.81	16.36	0.3164	0.644	74.364	29.277	42.8	109	85.3	64.0	1.2384	2.521	69.60	27.400
19	66.2	22.00	16.50	0.3191	0.650	74.350	29.271	43	109.4	86.4	64.8	1.2530	2.551	69.52	27.370
19.4	67	22.59	16.94	0.3276	0.667	74.306	29.254	43.3	110	87.9	65.9	1.2748	2.596	69.41	27.325
20	68	23.37	17.53	0.3390	0.690	74.247	29.231	43.9	111	90.5	67.9	1.3121	2.672	69.21	27.249
20.6	69	24.20	18.15	0.3509	0.714	74.185	29.207	44	111.2	91.1	68.3	1.3207	2.689	69.17	27.232
21	69.8	24.87	18.65	0.3606	0.734	74.135	29.187	44.4	112	93.1	69.8	1.3504	2.749	69.02	27.172
21.1	70	25.04	18.78	0.3631	0.739	74.122	29.182	45	113	95.9	71.9	1.3896	2.829	68.81	27.092
21.7	71	25.89	19.42	0.3756	0.765	74.058	29.156	45.6	114	98.5	73.9	1.4298	2.911	68.61	27.010
22	71.6	26.00	19.5	0.3771	0.768	74.05	29.153	46	114.8	100.9	75.7	1.4638	2.980	68.43	26.941
22.2	72	26.80	20.1	0.3886	0.791	73.99	29.130	46.1	115	101.5	76.1	1.4709	2.995	68.39	26.926
22.8	73	27.73	20.8	0.4019	0.818	73.92	29.103	46.7	116	104.3	78.2	1.5130	3.081	68.18	26.840
23	73.4	28.13	21.1	0.4080	0.831	73.89	29.090	47	116.6	106.1	79.6	1.5392	3.134	68.04	26.787
23.3	74	28.67	21.5	0.4156	0.846	73.85	29.075	47.2	117	107.3	80.5	1.5563	3.169	67.95	26.752
23.9	75	29.60	22.2	0.4298	0.875	73.78	29.046	47.8	118	110.4	82.8	1.6006	3.259	67.72	26.662
24	75.2	29.87	22.4	0.4331	0.882	73.76	29.039	48	118.4	111.6	83.7	1.6185	3.295	67.63	26.626
24.4	76	30.67	23.0	0.4443	0.905	73.70	29.016	48.3	119	113.5	85.1	1.6459	3.351	67.49	26.570
25	77	31.73	23.8	0.4593	0.935	73.62	28.986	48.9	120	116.7	87.5	1.6924	3.445	67.25	26.476
25.6	78	32.67	24.5	0.4747	0.967	73.55	28.954	49	120.2	117.3	88.0	1.7016	3.465	67.20	26.456
26	78.8	33.60	25.2	0.4873	0.992	73.48	28.929	49.4	121	120.0	90.0	1.7400	3.543	67.00	26.378
26.1	79	33.87	25.4	0.4906	0.999	73.46	28.922	50	122	123.3	92.5	1.7888	3.642	66.75	26.279
26.7	80	34.93	26.2	0.5069	1.031	73.38	28.890	50.6	123	126.8	95.1	1.8387	3.744	66.49	26.177
27	80.6	35.60	26.7	0.5163	1.051	73.33	28.870	51	123.8	129.6	97.2	1.8795	3.827	66.28	26.094
27.2	81	36.13	27.1	0.5237	1.067	73.29	28.854	51.1	124	130.3	97.7	1.8897	3.848	66.23	26.073
27.8	82	37.33	28.0	0.5410	1.102	73.20	28.819	51.7	125	133.9	100.4	1.9420	3.954	65.96	25.967
28	82.4	37.80	28.4	0.5482	1.116	73.16	28.805	52	125.6	136.0	102.0	1.9724	4.016	65.80	25.905



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Steam Tables

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°C	°F	mbar	mm Hg.	psia	inch Hg.	cm Hg.	inch Hg.	°C	°F	mbar	mm Hg.	psia	inch Hg.	cm Hg.	inch Hg.
52.2	126	137.2	103.2	1.9955	4.063	65.68	25.858	76.7	170	413	310	5.992	12.199	45.0	17.722
52.8	127	141.3	106.0	2.0503	4.175	65.40	25.746	77	170.6	419	314	6.074	12.362	44.6	17.559
53	127.4	142.9	107.2	2.0729	4.220	65.28	25.701	77.2	171	423	317	6.131	12.483	44.3	17.438
53.3	128	145.2	108.9	2.1064	4.289	65.11	25.632	77.8	172	432	324	6.273	12.772	43.6	17.149
53.9	129	149.2	111.9	2.1638	4.406	64.81	25.515	78	172.4	436	327	6.323	12.874	43.3	17.047
54	129.2	150.0	112.5	2.1754	4.429	64.75	25.492	78.3	173	443	332	6.417	13.066	42.8	16.855
54.4	130	153	114.9	2.2225	4.525	64.51	25.396	78.9	174	453	340	6.565	13.366	42.0	16.555
55	131	157	118.0	2.2826	4.647	64.20	25.274	79	174.2	455	341	6.594	13.425	41.9	16.496
55.6	132	162	121.2	2.3440	4.773	63.88	25.148	79.4	175	463	347	6.715	13.671	41.3	16.250
56	132.8	165	123.8	2.3939	4.874	63.62	25.047	80	176	473	355	6.868	13.983	40.5	15.938
56.1	133	166	124.5	2.4069	4.901	63.55	25.020	80.6	177	484	363	7.024	14.301	39.7	15.620
56.7	134	170	127.8	2.4712	5.031	63.22	24.890	81	177.8	493	370	7.149	14.567	39.0	15.354
57	134.6	173	129.8	2.5103	5.110	63.02	24.811	81.1	178	495	371	7.183	14.625	38.9	15.296
57.2	135	175	131.2	2.5370	5.165	62.88	24.756	81.7	179	507	380	7.345	14.955	38.0	14.966
57.8	136	180	134.7	2.6042	5.302	62.53	24.619	82	179.6	513	385	7.443	15.157	37.5	14.764
58	136.4	181	136.1	2.6314	5.358	62.39	24.563	82.2	180	517	388	7.510	15.291	37.2	14.630
58.3	137	184	138.2	2.6729	5.442	62.18	24.479	82.8	181	529	397	7.678	15.633	36.3	14.288
58.9	138	189	141.9	2.743	5.585	62.81	24.336	83	181.4	535	401	7.746	15.787	35.9	14.134
59	138.2	190	142.6	2.757	5.614	61.74	24.307	83.3	182	541	406	7.850	15.982	35.4	13.939
59.4	139	194	145.6	2.815	5.732	61.44	24.189	83.9	183	553	415	8.024	16.337	34.5	13.584
60	140	199	149.4	2.889	5.882	61.06	24.039	84	183.2	556	417	8.060	16.417	34.3	13.504
60.6	141	204	153.3	2.964	6.034	60.67	23.887	84.4	184	565	424	8.202	16.699	33.6	13.222
61	141.8	209	156.4	3.025	6.157	60.36	23.764	85	185	577	433	8.383	17.068	32.7	12.853
61.1	142	210	157.2	3.040	6.190	60.28	23.731	85.6	186	591	443	8.567	17.443	31.7	12.478
61.7	143	215	161.3	3.119	6.350	59.87	23.571	86	186.8	601	451	8.721	17.756	30.9	12.165
62	143.6	218	163.8	3.167	6.449	59.62	23.472	86.1	187	604	453	8.755	17.825	30.7	12.096
62.2	144	221	165.4	3.199	6.513	59.46	23.408	86.7	188	617	463	8.946	18.214	29.7	11.707
62.8	145	226	169.7	3.281	6.680	59.03	23.241	87	188.6	625	469	9.063	18.465	29.1	11.456
63	145.4	229	171.4	3.314	6.748	58.86	23.173	87.2	189	631	473	9.141	18.611	28.7	11.310
63.3	146	232	174.0	3.365	6.850	58.60	23.071	87.8	190	644	483	9.339	19.014	27.7	10.907
63.9	147	238	178.4	3.450	7.024	58.16	22.897	88	190.4	649	487	9.417	19.173	27.3	10.748
64	147.2	239	179.5	3.471	7.067	58.05	22.854	88.3	191	657	493	9.541	19.425	26.7	10.496
64.4	148	244	182.9	3.537	7.202	57.71	22.719	88.9	192	672	504	9.746	19.843	25.6	10.078
65	149	250	187.6	3.627	7.384	57.24	22.537	89	192.2	675	506	9.786	19.921	25.4	10.000
65.6	150	256	192.3	3.718	7.569	56.77	22.352	89.4	193	689	517	9.995	20.269	24.3	9.652
66	150.8	261	195.5	3.780	7.697	56.45	22.224	90	194	701	526	10.168	20.703	23.4	9.218
66.1	151	263	197.1	3.811	7.759	56.29	22.162	90.6	195	716	537	10.385	21.144	22.3	8.777
66.7	152	269	202	3.906	7.952	55.8	21.969	91	195.8	728	546	10.559	21.496	21.4	8.425
67	152.6	273	205	3.963	7.953	55.5	21.968	91.1	196	731	548	10.605	21.593	21.2	8.328
67.2	153	276	207	4.003	8.150	55.3	21.771	91.7	197	747	560	10.830	22.050	20.0	7.871
67.8	154	283	212	4.102	8.351	54.8	21.570	92	197.6	756	567	10.964	22.323	19.3	7.598
68	154.4	285	214	4.138	8.425	54.6	21.496	92.2	198	763	572	11.058	22.515	18.2	7.406
68.3	155	289	217	4.203	8.557	54.3	21.364	92.8	199	779	584	11.290	22.987	17.6	6.934
68.9	156	297	223	4.306	8.767	53.7	21.154	93	199.4	785	589	11.382	23.189	17.1	6.732
69	156.2	299	224	4.326	8.819	53.6	21.102	93.3	200	795	596	11.526	23.467	16.4	6.454
69.4	157	304	228	4.411	8.981	53.2	20.940	93.9	201	812	609	11.767	23.957	15.1	5.964
70	158	312	234	4.519	9.200	52.6	20.721	94	201.2	815	611	11.815	24.055	14.9	5.866
70.6	159	319	239	4.629	9.424	52.1	20.497	94.4	202	828	621	12.011	24.455	13.9	5.466
71	159.8	325	244	4.716	9.606	51.6	20.315	95	203	845	634	12.259	24.960	12.6	4.961
71.1	160	327	245	4.741	9.652	51.5	20.269	95.6	204	863	647	12.512	25.475	11.3	4.446
71.7	161	337	253	4.855	9.885	50.7	20.036	96	204.8	877	658	12.724	25.905	10.2	4.016
72	161.6	340	255	4.923	10.039	50.5	19.882	96.1	205	880	660	12.769	25.998	10.0	3.923
72.2	162	343	257	4.971	10.122	50.3	19.799	96.7	206	899	674	13.031	26.531	8.6	3.390
72.8	163	351	263	5.090	10.364	49.7	19.557	97	206.6	909	682	13.189	26.850	7.8	3.071
73	163.4	355	266	5.138	10.472	49.4	19.449	97.2	207	917	688	13.297	27.074	7.2	2.847
73.3	164	360	270	5.212	10.611	49.0	19.310	97.8	208	936	702	13.568	27.625	5.8	2.296
73.9	165	368	276	5.335	10.863	48.4	19.058	98	208.4	943	707	13.676	27.835	5.3	2.086
74	165.2	369	277	5.336	10.905	48.3	19.016	98.3	209	955	716	13.844	28.185	4.4	1.736
74.4	166	376	282	5.461	11.120	47.8	18.801	98.9	210	973	730	14.123	28.755	3.0	1.166
75	167	385	289	5.590	11.382	47.1	18.539	99	210.2	977	733	14.179	28.858	2.7	1.063
75.6	168	395	296	5.721	11.649	46.4	18.272	99.4	211	993	745	14.406	29.334	1.5	0.587
76	168.8	403	302	5.840	11.890	45.8	18.031	100	212	1013	760	14.696	29.921	0.0	0.000
76.1	169	404	303	5.855	11.921	45.7	18.000								



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