

Dry Saturated Steam Tables

Pressure		Temperature	Specific enthalpy			Specific volume steam
bar	kPa	°C	Water (hf) kJ/kg	Evaporation (hfg) kJ/kg	Steam (hg) kJ/kg	m ³ /kg
0.30	30	69.1	289.33	2 335.28	2 624.61	5.230
0.50	50	81.3	340.58	2 304.77	2 645.35	3.241
0.75	75	91.8	384.47	2 278.10	2 662.57	2.218
0.95	95	98.2	411.52	2 261.38	2 672.91	1.778
1.00	100	99.6	417.55	2 257.63	2 675.18	1.694
1.013 25	101.325	100.0	419.10	2 256.66	2 675.76	1.674
0	0	100.0	419.10	2 256.66	2 675.76	1.674
0.1	10	102.7	430.33	2 249.62	2 679.95	1.533
0.2	20	105.1	440.76	2 243.05	2 683.81	1.414
0.3	30	107.4	450.51	2 236.86	2 687.37	1.313
0.4	40	109.6	459.68	2 231.02	2 690.69	1.226
0.5	50	111.6	468.33	2 225.47	2 693.80	1.150
0.6	60	113.6	476.53	2 220.19	2 696.72	1.083
0.7	70	115.4	484.34	2 215.13	2 699.47	1.024
0.8	80	117.2	491.78	2 210.29	2 702.07	0.971
0.9	90	118.8	498.90	2 205.64	2 704.54	0.923
1.0	100	120.4	505.73	2 201.16	2 706.88	0.880
1.1	110	122.0	512.28	2 196.83	2 709.12	0.841
1.2	120	123.5	518.60	2 192.65	2 711.25	0.806
1.3	130	124.9	524.69	2 188.60	2 713.29	0.773
1.4	140	126.3	530.57	2 184.67	2 715.25	0.743
1.5	150	127.6	536.27	2 180.86	2 717.13	0.715
1.6	160	128.9	541.78	2 177.15	2 718.93	0.690
1.7	170	130.2	547.13	2 173.54	2 720.67	0.666
1.8	180	131.4	552.32	2 170.02	2 722.34	0.644
1.9	190	132.6	557.37	2 166.58	2 723.96	0.623
2.0	200	133.7	562.29	2 163.23	2 725.52	0.603
2.2	220	135.9	571.74	2 156.74	2 728.48	0.568
2.4	240	138.0	580.74	2 150.53	2 731.27	0.537
2.6	260	140.0	589.33	2 144.55	2 733.89	0.509
2.8	280	141.9	597.56	2 138.80	2 736.36	0.484
3.0	300	143.8	605.45	2 133.24	2 738.70	0.461
3.2	320	145.5	613.04	2 127.87	2 740.92	0.440
3.4	340	147.2	620.36	2 122.67	2 743.02	0.422
3.6	360	148.9	627.42	2 117.61	2 745.03	0.404
3.8	380	150.4	634.24	2 112.70	2 746.94	0.389
4.0	400	152.0	640.85	2 107.92	2 748.77	0.374
4.5	450	155.6	656.52	2 096.49	2 753.00	0.342
5.0	500	158.9	671.12	2 085.70	2 756.82	0.315
5.5	550	162.1	684.81	2 075.47	2 760.28	0.292
6.0	600	165.1	697.72	2 065.72	2 763.44	0.272
6.5	650	167.9	709.94	2 056.39	2 766.33	0.255
7.0	700	170.6	721.56	2 047.43	2 768.99	0.240
7.5	750	173.0	732.64	2 038.81	2 771.45	0.227
8.0	800	175.5	743.24	2 030.49	2 773.72	0.215
8.5	850	177.8	753.40	2 022.43	2 775.83	0.204
9.0	900	178.0	763.17	2 014.63	2 777.80	0.194
9.5	950	182.1	772.58	2 007.05	2 779.62	0.185
10.0	1 000	184.2	781.66	1 999.67	2 781.33	0.177
10.5	1 050	186.1	790.43	1 992.49	2 782.92	0.170
11.0	1 100	188.0	798.93	1 985.48	2 784.41	0.163
11.5	1 150	189.9	807.17	1 978.63	2 785.80	0.157
12.0	1 200	191.7	815.17	1 971.94	2 787.11	0.151
12.5	1 250	193.4	822.95	1 965.38	2 788.33	0.146
13.0	1 300	195.1	830.52	1 958.96	2 789.48	0.141
13.5	1 350	196.8	837.89	1 952.67	2 790.56	0.136
14.0	1 400	198.4	845.08	1 946.49	2 791.57	0.132
14.5	1 450	199.9	852.09	1 940.42	2 792.51	0.128
15.0	1 500	201.5	858.95	1 934.46	2 793.40	0.124
15.5	1 550	202.9	865.65	1 928.59	2 794.24	0.120
16.0	1 600	204.4	872.20	1 922.82	2 795.02	0.117
17.0	1 700	207.2	884.91	1 911.53	2 796.44	0.110
18.0	1 800	209.9	897.12	1 900.57	2 797.68	0.105
19.0	1 900	212.5	908.87	1 889.89	2 798.77	0.100
20.0	2 000	214.9	920.22	1 879.49	2 799.71	0.095
21.0	2 100	217.3	931.19	1 869.32	2 800.51	0.091
22.0	2 200	219.6	941.82	1 859.38	2 801.20	0.087
23.0	2 300	221.8	952.13	1 849.65	2 801.77	0.083

Gauge pressure		Temperature °C	Specific enthalpy			Specific volume steam m ³ /kg
bar	kPa		Water (hf) kJ/kg	Evaporation (hfg) kJ/kg	Steam (hg) kJ/kg	
24	2400	224.0	962.13	1 840.11	2 802.24	0.078
25	2 500	226.1	971.87	1 830.74	2 802.62	0.077
26	2 600	228.1	981.36	1 821.55	2 802.91	0.074
27	2 700	230.1	990.60	1 812.51	2 803.11	0.071
28	2 800	232.0	999.62	1 803.61	2 803.24	0.069
29	2 900	233.9	1 008.44	1 794.86	2 803.30	0.067
30	3 000	235.7	1 017.06	1 786.23	2 803.28	0.064
31	3 100	237.5	1 025.49	1 777.72	2 803.21	0.062
32	3 200	239.3	1 033.74	1 769.32	2 803.07	0.061
33	3 300	241.0	1 041.83	1 761.04	2 802.87	0.059
34	3 400	242.7	1 049.77	1 752.85	2 802.62	0.057
35	3 500	244.2	1 057.55	1 744.77	2 802.32	0.055
36	3 600	245.8	1 065.20	1 736.77	2 801.97	0.054
37	3 700	247.4	1 072.71	1 728.86	2 801.57	0.052
38	3 800	248.9	1 080.09	1 721.04	2 801.13	0.051
39	3 900	250.4	1 087.35	1 713.29	2 800.64	0.050
40	4 000	251.9	1 094.50	1 705.62	2 800.12	0.049
41	4 100	253.3	1 101.53	1 698.02	2 799.55	0.047
42	4 200	254.7	1 108.46	1 690.49	2 798.95	0.046
43	4 300	256.1	1 115.28	1 683.02	2 798.30	0.045
44	4 400	257.5	1 122.01	1 675.62	2 797.63	0.044
45	4 500	258.8	1 128.64	1 668.28	2 796.92	0.043
46	4 600	260.2	1 135.19	1 660.99	2 796.18	0.042
47	4 700	261.5	1 141.64	1 653.76	2 795.40	0.041
48	4 800	262.7	1 148.02	1 646.58	2 794.60	0.040
49	4 900	264.0	1 154.31	1 639.45	2 793.76	0.039
50	5 000	265.2	1 160.53	1 632.36	2 792.90	0.039
51	5 100	266.5	1 166.68	1 625.33	2 792.00	0.038
52	5 200	267.7	1 172.75	1 618.33	2 791.08	0.037
53	5 300	268.8	1 178.75	1 611.38	2 790.14	0.036
54	5 400	270.0	1 184.69	1 604.48	2 789.16	0.036
55	5 500	271.2	1 190.56	1 597.60	2 788.17	0.035
56	5 600	272.3	1 196.37	1 590.77	2 787.14	0.034
57	5 700	273.4	1 202.12	1 583.97	2 786.10	0.034
58	5 800	274.5	1 207.82	1 577.21	2 785.03	0.033
59	5 900	275.6	1 213.45	1 570.48	2 783.94	0.032
60	6 000	276.7	1 219.04	1 563.78	2 782.82	0.032
61	6 100	277.8	1 224.56	1 557.12	2 781.68	0.031
62	6 200	278.8	1 230.04	1 550.48	2 780.52	0.031
63	6 300	279.9	1 235.47	1 543.87	2 779.34	0.030
64	6 400	280.9	1 240.85	1 537.29	2 778.14	0.030
65	6 500	281.9	1 246.19	1 530.73	2 776.92	0.029
66	6 600	282.9	1 251.48	1 524.20	2 775.67	0.029
67	6 700	283.9	1 256.72	1 517.69	2 774.41	0.028
68	6 800	284.9	1 261.93	1 511.20	2 773.13	0.028
69	6 900	285.9	1 267.09	1 504.74	2 771.82	0.027
70	7 000	286.8	1 272.21	1 498.29	2 770.50	0.027
71	7 100	287.8	1 277.29	1 491.87	2 769.16	0.027
72	7 200	288.7	1 282.34	1 485.47	2 767.80	0.026
73	7 300	289.7	1 287.34	1 479.08	2 766.42	0.026
74	7 400	290.6	1 292.31	1 472.71	2 765.03	0.025
75	7 500	291.5	1 297.25	1 466.36	2 763.61	0.025
76	7 600	292.4	1 302.15	1 460.03	2 762.18	0.025
77	7 700	293.3	1 307.02	1 453.71	2 760.73	0.024
78	7 800	294.2	1 311.86	1 447.40	2 759.26	0.024
79	7 900	295.1	1 316.67	1 441.11	2 757.78	0.024
80	8 000	295.9	1 321.45	1 434.83	2 756.27	0.023
81	8 100	296.8	1 326.19	1 428.56	2 754.75	0.023
82	8 200	297.6	1 330.91	1 422.31	2 753.22	0.023
83	8 300	298.5	1 335.60	1 416.06	2 751.66	0.022
84	8 400	299.3	1 340.26	1 409.83	2 750.09	0.022
85	8 500	300.1	1 344.90	1 403.60	2 748.50	0.022
86	8 600	301.0	1 349.51	1 397.39	2 746.90	0.021
87	8 700	301.8	1 354.09	1 391.18	2 745.27	0.021
88	8 800	302.6	1 358.65	1 384.98	2 743.64	0.021
89	8 900	303.4	1 363.19	1 378.79	2 741.98	0.020
90	9 000	304.2	1 367.70	1 372.61	2 740.31	0.020
92	9 200	305.8	1 376.66	1 360.25	2 736.91	0.020
94	9 400	307.3	1 385.53	1 347.92	2 733.45	0.019
96	9 600	308.8	1 394.32	1 335.60	2 729.93	0.019
98	9 800	310.3	1 403.04	1 323.30	2 726.34	0.018
100	10 000	311.8	1 411.68	1 311.00	2 722.68	0.018
102	10 200	313.2	1 420.25	1 298.70	2 718.95	0.017
104	10 400	314.6	1 428.76	1 286.40	2 715.16	0.017
106	10 600	316.1	1 437.20	1 274.10	2 711.30	0.017
108	10 800	317.4	1 445.59	1 261.79	2 707.37	0.016
110	11 000	318.8	1 453.92	1 249.46	2 703.38	0.016
112	11 200	320.1	1 462.20	1 237.12	2 699.31	0.015
114	11 400	321.5	1 470.43	1 224.75	2 695.18	0.015
116	11 600	322.8	1 478.61	1 212.36	2 690.97	0.015
118	11 800	324.1	1 486.76	1 199.94	2 686.70	0.014
120	12 000	325.4	1 494.86	1 187.48	2 682.35	0.014

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