

STEAM TABLES

GAUGE PRESSURE kPa	ABSOLUTE PRESSURE kPa	TEMPERATURE °C	WATER (hf) (SENSIBLE HEAT) kJ/kg	SPECIFIC ENTHALPY EVAPORATION (hfg) (LATENT HEAT) kJ/kg	STEAM (hg) (TOTAL HEAT) kJ/kg	SPECIFIC VOLUME STEAM m ³ /kg
	5.0	32.88	137.82	2423.7	2561.5	28.192
	10.0	45.81	191.83	2392.8	2584.7	14.674
	15.0	53.97	225.94	2373.1	2599.1	10.022
	20.0	60.06	251.40	2358.3	2609.7	7.649
	25.0	64.97	271.93	2346.3	2618.2	6.204
	30.0	69.10	289.23	2336.1	2625.3	5.229
	35.0	72.70	304.30	2327.2	2631.5	4.530
	40.0	75.87	317.58	2319.2	2636.8	3.993
	45.0	78.70	329.67	2312.0	2641.7	3.580
	50.0	81.33	340.49	2305.4	2645.9	3.240
	55.0	83.72	350.54	2299.3	2649.8	2.964
	60.0	85.94	359.86	2293.6	2653.5	2.732
	65.0	88.01	368.54	2288.3	2656.9	2.535
	70.0	89.95	376.70	2283.3	2660.0	2.365
	75.0	91.78	384.39	2278.6	2663.0	2.217
	80.0	93.50	391.66	2274.1	2665.8	2.087
	85.0	95.14	398.57	2269.8	2668.4	1.972
	90.0	96.71	405.15	2265.7	2670.9	1.869
	95.0	98.20	411.43	2261.8	2673.2	1.777
	100.0	99.63	417.46	2258.0	2675.5	1.694
0	101.3	100.00	419.04	2257.0	2676.0	1.673
5.0	106.3	101.40	424.90	2253.3	2678.2	1.601
10.0	111.3	102.66	430.20	2250.2	2680.4	1.533
15.0	116.3	103.87	435.60	2246.7	2682.3	1.471
20.0	121.3	105.10	440.80	2243.4	2684.2	1.414
25.0	126.3	106.26	445.70	2240.3	2686.0	1.361
30.0	131.3	107.39	450.40	2237.2	2687.6	1.312
35.0	136.3	108.50	455.20	2234.1	2689.3	1.268
40.0	141.3	109.55	459.70	2231.3	2691.0	1.225
45.0	146.3	110.58	464.10	2228.4	2692.5	1.186
50.0	151.3	111.61	468.30	2225.6	2693.9	1.149
55.0	156.3	112.60	472.40	2223.1	2695.5	1.115
60.0	161.3	113.56	476.40	2220.4	2696.8	1.083
65.0	166.3	114.51	480.20	2217.9	2698.1	1.051
70.0	171.3	115.40	484.10	2215.4	2699.5	1.024
75.0	176.3	116.28	487.90	2213.0	2700.9	0.997
80.0	181.3	117.14	491.60	2210.5	2702.1	0.971
85.0	186.3	117.96	495.10	2208.3	2703.4	0.946
90.0	191.3	118.80	498.90	2205.6	2704.5	0.923
95.0	196.3	119.63	502.20	2203.5	2705.7	0.901
100.0	201.3	120.42	505.70	2201.1	2706.7	0.881
105.0	206.3	121.21	508.90	2199.1	2708.0	0.860
110.0	211.3	121.96	512.20	2197.0	2709.2	0.841
115.0	216.3	122.73	515.40	2195.0	2710.4	0.823
120.0	221.3	123.46	518.70	2192.8	2711.5	0.806
125.0	226.3	124.18	521.60	2190.7	2712.3	0.788
130.0	231.3	124.90	524.60	2188.7	2713.3	0.773
135.0	236.3	125.59	527.60	2186.7	2714.3	0.757
140.0	241.3	126.28	530.50	2184.8	2715.3	0.743
145.0	246.3	126.96	533.30	2182.9	2716.2	0.728
150.0	251.3	127.62	536.10	2181.0	2717.1	0.714
155.0	256.3	128.26	538.90	2179.1	2718.0	0.701
160.0	261.3	128.89	541.60	2177.3	2718.9	0.689
165.0	266.3	129.51	544.40	2175.5	2719.9	0.677
170.0	271.3	130.13	547.10	2173.7	2720.8	0.665
175.0	276.3	130.75	549.70	2171.9	2721.6	0.654
180.0	281.3	131.37	552.30	2170.1	2722.4	0.643
185.0	286.3	131.96	554.80	2168.3	2723.1	0.632

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	190.0	291.3	132.54	557.3	2166.7	2724.0	0.622
	195.0	296.3	133.13	559.8	2165.0	2724.8	0.612
	200.0	301.3	133.69	562.2	2163.3	2725.5	0.603
	205.0	306.3	134.25	564.6	2161.7	2726.3	0.594
	210.0	311.3	134.82	567.0	2160.1	2727.1	0.585
	215.0	316.3	135.36	569.5	2158.5	2727.9	0.576
	220.0	321.3	135.88	571.7	2156.9	2728.6	0.568
	225.0	326.3	136.43	574.0	2155.3	2729.3	0.560
	230.0	331.3	136.98	576.3	2153.7	2730.0	0.552
	235.0	336.3	137.50	578.5	2152.2	2730.7	0.544
	240.0	341.3	138.01	580.7	2150.7	2731.4	0.536
	245.0	346.3	138.53	582.8	2149.2	2732.0	0.529
	250.0	351.3	139.02	585.0	2147.6	2732.6	0.522
	255.0	356.3	139.52	586.9	2146.3	2733.2	0.515
	260.0	361.3	140.00	589.2	2144.7	2733.9	0.509
	265.0	366.3	140.48	591.3	2143.3	2734.6	0.502
	270.0	371.3	140.96	593.3	2141.9	2735.2	0.496
	275.0	376.3	141.44	595.3	2140.5	2735.8	0.489
	280.0	381.3	141.92	597.4	2139.0	2736.4	0.483
	285.0	386.3	142.40	599.4	2137.6	2737.0	0.477
	290.0	391.3	142.86	601.4	2136.1	2737.5	0.471
	295.0	396.3	143.28	603.3	2134.8	2738.1	0.466
	300.0	401.3	143.75	605.3	2133.4	2738.7	0.461
	310.0	411.3	144.67	609.1	2130.7	2739.8	0.451
	320.0	421.3	145.46	612.9	2128.1	2741.0	0.440
	330.0	431.3	146.36	616.4	2125.5	2741.9	0.431
	340.0	441.3	147.20	620.0	2122.9	2742.9	0.422
	350.0	451.3	148.02	623.6	2120.3	2743.9	0.413
	360.0	461.3	148.84	627.1	2117.8	2744.9	0.405
	370.0	471.3	149.64	630.6	2115.3	2745.9	0.396
	380.0	481.3	150.44	634.0	2112.9	2746.9	0.389
	390.0	491.3	151.23	637.3	2110.5	2747.8	0.381
	400.0	501.3	151.96	640.7	2108.1	2748.8	0.374
	410.0	511.3	152.68	643.9	2105.7	2749.8	0.367
	420.0	521.3	153.40	657.1	2103.5	2750.6	0.361
	430.0	531.3	154.12	650.2	2101.2	2751.4	0.355
	440.0	541.3	154.84	653.3	2098.9	2752.2	0.348
	450.0	551.3	155.55	656.3	2096.7	2753.0	0.342
	460.0	561.3	156.24	659.3	2094.5	2753.8	0.336
	470.0	571.3	156.94	662.3	2092.3	2754.6	0.330
	480.0	581.3	157.62	665.2	2090.2	2755.4	0.325
	490.0	591.3	158.28	668.1	2088.1	2756.2	0.320
	500.0	601.3	158.92	670.9	2086.0	2756.9	0.315
	510.0	611.3	159.56	673.7	2083.9	2757.6	0.310
	520.0	621.3	160.20	676.5	2081.8	2758.3	0.305
	530.0	631.3	160.82	679.2	2079.8	2759.0	0.301
	540.0	641.3	161.45	681.9	2077.8	2759.7	0.296
	550.0	651.3	162.08	684.6	2075.7	2760.3	0.292
	560.0	661.3	162.68	687.2	2073.8	2761.0	0.288
	570.0	671.3	163.27	689.8	2071.8	2761.6	0.284
	580.0	681.3	163.86	692.4	2069.9	2762.3	0.280
	590.0	691.3	164.46	695.0	2067.9	2762.9	0.276
	600.0	701.3	165.04	697.5	2066.0	2763.5	0.272
	610.0	711.3	165.60	700.0	2064.1	2764.1	0.269
	620.0	721.3	166.16	702.5	2062.3	2764.8	0.265
	630.0	731.3	166.73	705.0	2060.4	2765.4	0.261
	640.0	741.3	167.29	707.4	2058.6	2766.0	0.258
	650.0	751.3	167.83	709.7	2056.8	2766.5	0.255

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660.0	761.3	168.38	712.1	2055.0	2767.1	0.252
670.0	771.3	168.89	714.5	2053.1	2767.6	0.249
680.0	781.3	169.53	716.8	2051.3	2768.1	0.246
690.0	791.3	169.95	719.1	2049.5	2768.6	0.243
700.0	801.3	170.50	721.4	2047.7	2769.1	0.240
710.0	811.3	171.02	723.6	2046.1	2769.7	0.237
720.0	821.3	171.53	725.9	2044.3	2770.2	0.235
730.0	831.3	172.03	728.1	2042.6	2770.7	0.232
740.0	841.3	172.53	730.4	2040.8	2771.2	0.229
750.0	851.3	173.02	732.5	2039.2	2771.7	0.227
760.0	861.3	173.50	734.7	2037.5	2772.2	0.224
770.0	871.3	174.00	736.8	2035.9	2772.7	0.222
780.0	881.3	174.46	738.9	2034.2	2773.1	0.219
790.0	891.3	174.93	741.0	2032.6	2773.6	0.217
800.0	901.3	175.43	743.1	2030.9	2774.0	0.215
810.0	911.3	175.88	745.2	2029.3	2774.5	0.212
820.0	921.3	176.37	747.2	2027.6	2774.8	0.210
830.0	931.3	176.83	749.3	2027.6	2775.4	0.208
840.0	941.3	177.27	751.3	2024.5	2775.8	0.206
850.0	951.3	177.75	753.3	2022.9	2776.2	0.204
860.0	961.3	178.20	755.3	2021.3	2776.6	0.202
870.0	971.3	178.64	757.2	2019.7	2776.9	0.200
880.0	981.3	179.08	759.2	2018.2	2777.4	0.198
890.0	991.3	179.53	761.1	2016.6	2777.7	0.196
900.0	1001.3	179.97	763.0	2015.1	2778.1	0.194
910.0	1011.3	180.41	765.0	2013.5	2778.5	0.192
920.0	1021.3	180.83	766.9	2012.9	2778.9	0.191
930.0	1031.3	181.26	768.7	2010.5	2779.2	0.189
940.0	1041.0	181.68	770.6	2009.0	2779.6	0.187
950.0	1051.3	182.10	772.5	2007.5	2780.0	0.185
960.0	1061.3	182.51	774.4	2006.0	2780.4	0.184
970.0	1071.3	182.91	776.2	2004.5	2780.7	0.182
980.0	1081.3	183.31	778.0	2003.1	2781.1	0.181
990.0	1091.3	183.72	779.8	2001.6	2781.4	0.179
1000.0	1101.3	184.13	781.6	2000.1	2781.7	0.177
1020.0	1121.3	184.92	785.1	1997.3	2782.4	0.174
1040.0	1141.3	185.68	788.6	1994.4	2783.0	0.172
1060.0	1161.3	186.49	792.1	1991.6	2783.7	0.169
1080.0	1181.3	187.25	795.5	1988.8	2784.3	0.166
1100.0	1201.3	188.02	798.8	1986.0	2784.8	0.163
1120.0	1221.3	188.78	802.3	1983.2	2785.5	0.161
1140.0	1241.3	189.52	805.5	1980.5	2786.0	0.158
1160.0	1261.3	190.24	808.8	1977.8	2786.6	0.156
1180.0	1281.3	190.97	812.0	1975.1	2787.1	0.153
1200.0	1301.3	191.68	815.1	1972.5	2787.6	0.151
1220.0	1321.3	192.38	818.3	1969.9	2788.2	0.149
1240.0	1341.3	193.08	821.4	1967.2	2788.6	0.147
1260.0	1361.3	193.77	824.5	1964.6	2789.1	0.145
1280.0	1381.3	194.43	827.5	1962.1	2789.6	0.143
1300.0	1401.3	195.10	830.4	1959.6	2790.0	0.141
1320.0	1421.3	195.77	833.4	1957.1	2790.5	0.139
1340.0	1441.3	196.43	836.4	1954.5	2791.0	0.137
1360.0	1461.3	197.08	839.3	1952.0	2791.3	0.135
1380.0	1481.3	197.72	842.2	1949.6	2791.8	0.133
1400.0	1501.3	198.35	845.1	1947.1	2792.2	0.132
1420.0	1521.3	198.98	848.0	1944.6	2792.6	0.130
1440.0	1541.3	199.61	850.7	1942.3	2793.0	0.128
1460.0	1561.3	200.23	853.5	1939.8	2793.3	0.127

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1480.0	1581.3	200.84	856.3	1937.4	2793.7	0.1250
1500.0	1601.3	201.45	859.0	1935.0	2794.0	0.1240
1520.0	1621.3	202.04	861.7	1932.7	2794.4	0.1220
1540.0	1641.3	202.62	864.4	1930.4	2794.8	0.1210
1560.0	1661.3	203.21	867.1	1928.0	2795.1	0.1190
1580.0	1681.3	203.79	869.7	1925.7	2795.4	0.1180
1600.0	1701.3	204.38	872.3	1923.4	2795.7	0.1170
1620.0	1721.3	204.94	874.9	1921.2	2796.1	0.1150
1640.0	1741.3	205.49	877.5	1918.9	2796.4	0.1140
1660.0	1761.3	206.05	880.0	1916.7	2796.7	0.1130
1680.0	1781.3	206.61	882.5	1914.4	2796.9	0.1110
1700.0	1801.3	207.17	885.0	1912.1	2797.1	0.1100
1720.0	1821.3	207.75	887.5	1909.9	2797.4	0.1090
1740.0	1841.3	208.30	889.9	1907.7	2797.6	0.1080
1760.0	1861.3	208.84	892.4	1905.5	2797.9	0.1070
1780.0	1881.3	209.37	894.8	1903.4	2798.2	0.1060
1800.0	1901.3	209.90	897.2	1901.3	2798.5	0.1050
1820.0	1921.3	210.43	899.6	1899.1	2798.7	0.1040
1840.0	1941.3	210.96	902.0	1896.9	2798.9	0.1030
1860.0	1961.3	211.47	904.3	1894.8	2799.1	0.1020
1880.0	1981.3	211.98	906.7	1892.6	2799.3	0.1010
1900.0	2001.3	212.47	909.0	1890.5	2799.5	0.1000
1920.0	2021.3	212.98	911.3	1888.4	2799.7	0.0986
1940.0	2041.3	213.49	913.6	1886.3	2799.9	0.0976
1960.0	2061.3	213.99	915.8	1884.3	2800.1	0.0967
1980.0	2081.3	214.48	918.1	1882.2	2800.3	0.0958
2000.0	2101.3	214.96	920.3	1880.2	2800.5	0.0949
2050.0	2151.3	216.15	925.8	1875.1	2800.9	0.0927
2100.0	2201.3	217.35	931.3	1870.1	2801.4	0.0906
2150.0	2251.3	218.53	936.6	1865.1	2801.7	0.0887
2200.0	2301.3	219.65	941.9	1860.1	2802.0	0.0868
2250.0	2351.3	220.76	947.1	1855.3	2802.4	0.0894
2300.0	2401.3	221.85	952.2	1850.4	2802.6	0.0832
2350.0	2451.3	222.94	957.3	1845.6	2802.9	0.0815
2400.0	2501.3	224.02	962.2	1840.9	2803.1	0.0797
2450.0	2551.3	225.08	967.2	1836.1	2803.3	0.0783
2500.0	2601.3	226.12	972.1	1831.4	2803.5	0.0768
2600.0	2701.3	228.15	981.6	1822.2	2803.8	0.0740
2700.0	2801.0	230.14	990.7	1813.3	2804.0	0.0714
2800.0	2901.3	232.05	999.7	1804.4	2804.1	0.0689
2900.0	3001.3	233.93	1008.6	1795.6	2804.2	0.0666
3000.0	3101.3	235.78	1017.1	1787.0	2804.1	0.0645
3100.0	3201.3	237.55	1025.6	1778.5	2804.1	0.0625
3200.0	3301.0	239.28	1033.9	1770.0	2803.9	0.0605
3300.0	3401.3	240.97	1041.9	1761.8	2803.7	0.0587
3400.0	3501.3	242.63	1049.7	1753.8	2803.5	0.0571
3500.0	3601.3	244.26	1057.7	1745.5	2803.2	0.0554
3600.0	3701.0	245.86	1065.7	1737.2	2802.9	0.0539
3700.0	3801.3	247.42	1072.9	1729.5	2802.4	0.0524
3800.0	3901.3	248.95	1080.3	1721.6	2801.9	0.0510
3900.0	4001.3	250.42	1087.4	1714.1	2801.5	0.0498
4000.0	4101.3	251.94	1094.6	1706.3	2800.9	0.0485
4200.0	4301.3	254.74	1108.6	1691.2	2799.8	0.0461
4400.0	4501.3	257.50	1122.1	1676.2	2798.3	0.0441
4600.0	4701.3	260.13	1135.3	1661.6	2796.9	0.0421
4800.0	4901.3	262.73	1148.1	1647.1	2795.2	0.0403
5000.0	5101.3	265.26	1160.8	1632.8	2793.6	0.0386