

THERMODYNAMIC PROPERTIES of SATURATED STEAM



Guage Pressure (PSIG)	Absolute Pressure (PSIA)	Steam Temp (°F)	Enthalpy of Saturated Liquid (BTU/lbs)	Latent Heat (Btu/lbs)	Enthalpy of Steam (Btu/lbs)	Specific Volume (ft ³ /lbs) (density) ⁻¹
IN A VACUUM						
29.74	0.0885	32	0.00	1075.8	1075.8	3306.00
29.52	0.2	53.14	21.21	1063.8	1085.0	1526.00
27.89	1.0	101.74	69.70	1036.3	1106.0	333.60
19.74	5.0	162.24	130.13	1001.0	1131.1	73.52
9.56	10.0	193.21	161.17	982.1	1143.3	38.42
7.54	11.0	197.75	165.73	979.3	1145.0	35.14
5.49	12.0	201.96	169.96	976.6	1146.6	32.40
3.45	13.0	205.88	173.91	974.2	1148.1	30.06
1.42	14.0	209.56	177.61	971.9	1149.5	28.04
PSIG						
0.0	14.696	212.00	180.07	970.3	1150.4	26.80
1.3	16.0	216.32	184.42	967.6	1152.0	24.75
2.3	17.0	219.44	187.56	965.5	1153.1	23.39
5.3	20.0	227.96	196.16	960.1	1156.3	20.09
10.3	25.0	240.07	208.42	952.1	1160.6	16.30
15.3	30.0	250.33	218.82	945.3	1164.1	13.75
20.3	35.0	259.28	227.91	939.2	1167.1	11.90
25.3	40.0	267.25	236.03	933.7	1169.7	10.50
30.3	45.0	274.44	243.36	928.6	1172.0	9.40
40.3	55.0	287.07	256.30	919.6	1175.9	7.79
50.3	65.0	297.97	267.50	911.6	1179.1	6.66
60.3	75.0	307.60	277.43	904.5	1181.9	5.82
70.3	85.0	316.25	286.39	897.8	1184.2	5.17
80.3	95.0	324.12	294.56	891.7	1186.2	4.65
90.3	105.0	331.36	302.10	886.0	1188.1	4.23
100.0	114.7	337.90	308.80	880.0	1188.8	3.88
110.3	125.0	344.33	315.68	875.4	1191.1	3.59
120.3	135.0	350.21	321.85	870.6	1192.4	3.33
125.3	140.0	353.02	324.82	868.2	1193.0	3.22
130.3	145.0	355.76	327.70	865.8	1193.5	3.11
140.3	155.0	360.50	333.24	861.3	1194.6	2.92
150.3	165.0	365.99	338.53	857.1	1195.6	2.75
160.3	175.0	370.75	343.57	852.8	1196.5	2.60
180.3	195.0	379.67	353.10	844.9	1198.0	2.34
200.3	215.0	387.89	361.91	837.4	1199.3	2.13
225.3	240.0	397.37	372.12	828.5	1200.6	1.92
250.3	265.0	406.11	381.60	820.1	1201.7	1.74
-	300.0	417.33	393.84	809.0	1202.8	1.54
-	400.0	444.59	424.00	780.5	1204.5	1.16
-	450.0	456.28	437.20	767.4	1204.6	1.03
-	500.0	467.01	449.40	755.0	1204.4	0.93
-	600.0	486.21	471.60	731.6	1203.2	0.77
-	900.0	531.98	526.60	668.8	1195.4	0.50
-	1200.0	567.22	571.70	611.7	1183.4	0.36
-	1500.0	596.23	611.60	556.3	1167.9	0.28
-	1700.0	613.15	636.30	519.6	1155.9	0.24
-	2000.0	635.82	671.70	463.4	1135.1	0.19
-	2500.0	668.13	730.60	360.5	1091.1	0.13



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