

Saturated water—Temperature table S.I unit

Temp., T °C	Sat. press., P _{sat} kPa	Specific volume, m ³ /kg		Internal energy, kJ/kg			Enthalpy, kJ/kg			Entropy, kJ/kg · K		
		Sat. liquid, v _f	Sat. vapor, v _g	Sat. liquid, u _f	Evap., u _{fg}	Sat. vapor, u _g	Sat. liquid, h _f	Evap., h _{fg}	Sat. vapor, h _g	Sat. liquid, s _f	Evap., s _{fg}	Sat. vapor, s _g
0.01	0.6117	0.001000	206.00	0.000	2374.9	2374.9	0.001	2500.9	2500.9	0.0000	9.1556	9.1556
5	0.8725	0.001000	147.03	21.019	2360.8	2381.8	21.020	2489.1	2510.1	0.0763	8.9487	9.0249
10	1.2281	0.001000	106.32	42.020	2346.6	2388.7	42.022	2477.2	2519.2	0.1511	8.7488	8.8999
15	1.7057	0.001001	77.885	62.980	2332.5	2395.5	62.982	2465.4	2528.3	0.2245	8.5559	8.7803
20	2.3392	0.001002	57.762	83.913	2318.4	2402.3	83.915	2453.5	2537.4	0.2965	8.3696	8.6661
25	3.1698	0.001003	43.340	104.83	2304.3	2409.1	104.83	2441.7	2546.5	0.3672	8.1895	8.5567
30	4.2469	0.001004	32.879	125.73	2290.2	2415.9	125.74	2429.8	2555.6	0.4368	8.0152	8.4520
35	5.6291	0.001006	25.205	146.63	2276.0	2422.7	146.64	2417.9	2564.6	0.5051	7.8466	8.3517
40	7.3851	0.001008	19.515	167.53	2261.9	2429.4	167.53	2406.0	2573.5	0.5724	7.6832	8.2556
45	9.5953	0.001010	15.251	188.43	2247.7	2436.1	188.44	2394.0	2582.4	0.6386	7.5247	8.1633
50	12.352	0.001012	12.026	209.33	2233.4	2442.7	209.34	2382.0	2591.3	0.7038	7.3710	8.0748
55	15.763	0.001015	9.5639	230.24	2219.1	2449.3	230.26	2369.8	2600.1	0.7680	7.2218	7.9898
60	19.947	0.001017	7.6670	251.16	2204.7	2455.9	251.18	2357.7	2608.8	0.8313	7.0769	7.9082
65	25.043	0.001020	6.1935	272.09	2190.3	2462.4	272.12	2345.4	2617.5	0.8937	6.9360	7.8296
70	31.202	0.001023	5.0396	293.04	2175.8	2468.9	293.07	2333.0	2626.1	0.9551	6.7989	7.7540
75	38.597	0.001026	4.1291	313.99	2161.3	2475.3	314.03	2320.6	2634.6	1.0158	6.6655	7.6812
80	47.416	0.001029	3.4053	334.97	2146.6	2481.6	335.02	2308.0	2643.0	1.0756	6.5355	7.6111
85	57.868	0.001032	2.8261	355.96	2131.9	2487.8	356.02	2295.3	2651.4	1.1346	6.4089	7.5435
90	70.183	0.001036	2.3593	376.97	2117.0	2494.0	377.04	2282.5	2659.6	1.1929	6.2853	7.4782
95	84.609	0.001040	1.9808	398.00	2102.0	2500.1	398.09	2269.6	2667.6	1.2504	6.1647	7.4151
100	101.42	0.001043	1.6720	419.06	2087.0	2506.0	419.17	2256.4	2675.6	1.3072	6.0470	7.3542
105	120.90	0.001047	1.4186	440.15	2071.8	2511.9	440.28	2243.1	2683.4	1.3634	5.9319	7.2952
110	143.38	0.001052	1.2094	461.27	2056.4	2517.7	461.42	2229.7	2691.1	1.4188	5.8193	7.2382
115	169.18	0.001056	1.0360	482.42	2040.9	2523.3	482.59	2216.0	2698.6	1.4737	5.7092	7.1829
120	198.67	0.001060	0.89133	503.60	2025.3	2528.9	503.81	2202.1	2706.0	1.5279	5.6013	7.1292
125	232.23	0.001065	0.77012	524.83	2009.5	2534.3	525.07	2188.1	2713.1	1.5816	5.4956	7.0771
130	270.28	0.001070	0.66808	546.10	1993.4	2539.5	546.38	2173.7	2720.1	1.6346	5.3919	7.0265
135	313.22	0.001075	0.58179	567.41	1977.3	2544.7	567.75	2159.1	2726.9	1.6872	5.2901	6.9773
140	361.53	0.001080	0.50850	588.77	1960.9	2549.6	589.16	2144.3	2733.5	1.7392	5.1901	6.9294
145	415.68	0.001085	0.44600	610.19	1944.2	2554.4	610.64	2129.2	2739.8	1.7908	5.0919	6.8827
150	476.16	0.001091	0.39248	631.66	1927.4	2559.1	632.18	2113.8	2745.9	1.8418	4.9953	6.8371
155	543.49	0.001096	0.34648	653.19	1910.3	2563.5	653.79	2098.0	2751.8	1.8924	4.9002	6.7927
160	618.23	0.001102	0.30680	674.79	1893.0	2567.8	675.47	2082.0	2757.5	1.9426	4.8066	6.7492
165	700.93	0.001108	0.27244	696.46	1875.4	2571.9	697.24	2065.6	2762.8	1.9923	4.7143	6.7067
170	792.18	0.001114	0.24260	718.20	1857.5	2575.7	719.08	2048.8	2767.9	2.0417	4.6233	6.6650
175	892.60	0.001121	0.21659	740.02	1839.4	2579.4	741.02	2031.7	2772.7	2.0906	4.5335	6.6242
180	1002.8	0.001127	0.19384	761.92	1820.9	2582.8	763.05	2014.2	2777.2	2.1392	4.4448	6.5841
185	1123.5	0.001134	0.17390	783.91	1802.1	2586.0	785.19	1996.2	2781.4	2.1875	4.3572	6.5447
190	1255.2	0.001141	0.15636	806.00	1783.0	2589.0	807.43	1977.9	2785.3	2.2355	4.2705	6.5059
195	1398.8	0.001149	0.14089	828.18	1763.6	2591.7	829.78	1959.0	2788.8	2.2831	4.1847	6.4678
200	1554.9	0.001157	0.12721	850.46	1743.7	2594.2	852.26	1939.8	2792.0	2.3305	4.0997	6.4302

$$\bar{R} = 8.314 \frac{KJ}{K \cdot mol \cdot ^\circ K}$$

$$\bar{R} = 1.986 \frac{Btu}{lb \cdot mol \cdot ^\circ R}$$

$$\bar{R} = 1545 \frac{ft \cdot lb_f}{lb \cdot mol \cdot ^\circ R}$$

Saturated water—Temperature table (Continued) S.I unit

Temp., T °C	Sat. press., P _{sat} kPa	Specific volume, m ³ /kg		Internal energy, kJ/kg			Enthalpy, kJ/kg			Entropy, kJ/kg · K		
		Sat. liquid, v _f	Sat. vapor, v _g	Sat. liquid, u _f	Evap., u _{fg}	Sat. vapor, u _g	Sat. liquid, h _f	Evap., h _{fg}	Sat. vapor, h _g	Sat. liquid, s _f	Evap., s _{fg}	Sat. vapor, s _g
205	1724.3	0.001164	0.11508	872.86	1723.5	2596.4	874.87	1920.0	2794.8	2.3776	4.0154	6.3930
210	1907.7	0.001173	0.10429	895.38	1702.9	2598.3	897.61	1899.7	2797.3	2.4245	3.9318	6.3563
215	2105.9	0.001181	0.094680	918.02	1681.9	2599.9	920.50	1878.8	2799.3	2.4712	3.8489	6.3200
220	2319.6	0.001190	0.086094	940.79	1660.5	2601.3	943.55	1857.4	2801.0	2.5176	3.7664	6.2840
225	2549.7	0.001199	0.078405	963.70	1638.6	2602.3	966.76	1835.4	2802.2	2.5639	3.6844	6.2483
230	2797.1	0.001209	0.071505	986.76	1616.1	2602.9	990.14	1812.8	2802.9	2.6100	3.6028	6.2128
235	3062.6	0.001219	0.065300	1010.0	1593.2	2603.2	1013.7	1789.5	2803.2	2.6560	3.5216	6.1775
240	3347.0	0.001229	0.059707	1033.4	1569.8	2603.1	1037.5	1765.5	2803.0	2.7018	3.4405	6.1424
245	3651.2	0.001240	0.054656	1056.9	1545.7	2602.7	1061.5	1740.8	2802.2	2.7476	3.3596	6.1072
250	3976.2	0.001252	0.050085	1080.7	1521.1	2601.8	1085.7	1715.3	2801.0	2.7933	3.2788	6.0721
255	4322.9	0.001263	0.045494	1104.7	1495.8	2600.5	1110.1	1689.0	2799.1	2.8390	3.1979	6.0369
260	4692.3	0.001276	0.042175	1128.8	1469.9	2598.7	1134.8	1661.8	2796.6	2.8847	3.1169	6.0017
265	5085.3	0.001289	0.038748	1153.3	1443.2	2596.5	1159.8	1633.7	2793.5	2.9304	3.0358	5.9662
270	5503.0	0.001303	0.035622	1177.9	1415.7	2593.7	1185.1	1604.6	2789.7	2.9762	2.9542	5.9305
275	5946.4	0.001317	0.032767	1202.9	1387.4	2590.3	1210.7	1574.5	2785.2	3.0221	2.8723	5.8944
280	6416.6	0.001333	0.030153	1228.2	1358.2	2586.4	1236.7	1543.2	2779.9	3.0681	2.7898	5.8579
285	6914.6	0.001349	0.027756	1253.7	1328.1	2581.8	1263.1	1510.7	2773.7	3.1144	2.7066	5.8210
290	7441.8	0.001366	0.025554	1279.7	1296.9	2576.5	1289.8	1476.9	2766.7	3.1608	2.6225	5.7834
295	7999.0	0.001384	0.023528	1306.0	1264.5	2570.5	1317.1	1441.6	2758.7	3.2076	2.5374	5.7450
300	8587.9	0.001404	0.021659	1332.7	1230.9	2563.6	1344.8	1404.8	2749.6	3.2548	2.4511	5.7059
305	9209.4	0.001425	0.019932	1360.0	1195.9	2555.8	1373.1	1366.3	2739.4	3.3024	2.3633	5.6657
310	9865.0	0.001447	0.018333	1387.7	1159.3	2547.1	1402.0	1325.9	2727.9	3.3506	2.2737	5.6243
315	10556	0.001472	0.016849	1416.1	1121.1	2537.2	1431.6	1283.4	2715.0	3.3994	2.1821	5.5816
320	11284	0.001499	0.015470	1445.1	1080.9	2526.0	1462.0	1238.5	2700.6	3.4491	2.0881	5.5372
325	12051	0.001528	0.014183	1475.0	1038.5	2513.4	1493.4	1191.0	2684.3	3.4998	1.9911	5.4908
330	12858	0.001560	0.012979	1505.7	993.5	2499.2	1525.8	1140.3	2666.0	3.5516	1.8906	5.4422
335	13707	0.001597	0.011848	1537.5	945.5	2483.0	1559.4	1086.0	2645.4	3.6050	1.7857	5.3907
340	14601	0.001638	0.010783	1570.7	893.8	2464.5	1594.6	1027.4	2622.0	3.6602	1.6756	5.3358
345	15541	0.001685	0.009772	1605.5	837.7	2443.2	1631.7	963.4	2595.1	3.7179	1.5585	5.2765
350	16529	0.001741	0.008806	1642.4	775.9	2418.3	1671.2	892.7	2563.9	3.7788	1.4326	5.2114
355	17570	0.001808	0.007872	1682.2	706.4	2388.6	1714.0	812.9	2526.9	3.8442	1.2942	5.1384
360	18666	0.001895	0.006950	1726.2	625.7	2351.9	1761.5	720.1	2481.6	3.9165	1.1373	5.0537
365	19822	0.002015	0.006009	1777.2	526.4	2303.6	1817.2	605.5	2422.7	4.0004	0.9489	4.9493
370	21044	0.002217	0.004953	1844.5	385.6	2230.1	1891.2	443.1	2334.3	4.1119	0.6890	4.8009
373.95	22064	0.003106	0.003106	2015.7	0	2015.7	2084.3	0	2084.3	4.4070	0	4.4070

Ideal-gas specific heats of various common gases S.I unit

(a) At 300 K

Saturated water—Pressure table S.I unit

Press., P kPa	Specific volume, m ³ /kg			Internal energy, kJ/kg			Enthalpy, kJ/kg			Entropy, kJ/kg · K		
	Sat. temp., T _{sat} °C	Sat. liquid, v _f	Sat. vapor, v _g	Sat. liquid, u _f	Evap., u _{fg}	Sat. vapor, u _g	Sat. liquid, h _f	Evap., h _{fg}	Sat. vapor, h _g	Sat. liquid, s _f	Evap., s _{fg}	Sat. vapor, s _g
1.0	6.97	0.001000	129.19	29.302	2355.2	2384.5	29.303	2484.4	2513.7	0.1059	8.8690	8.9749
1.5	13.02	0.001001	87.964	54.686	2338.1	2392.8	54.688	2470.1	2524.7	0.1956	8.6314	8.8270
2.0	17.50	0.001001	66.990	73.431	2325.5	2398.9	73.433	2459.5	2532.9	0.2606	8.4621	8.7227
2.5	21.08	0.001002	54.242	88.422	2315.4	2403.8	88.424	2451.0	2539.4	0.3118	8.3302	8.6421
3.0	24.08	0.001003	45.654	100.98	2306.9	2407.9	100.98	2443.9	2544.8	0.3543	8.2222	8.5765
4.0	28.96	0.001004	34.791	121.39	2293.1	2414.5	121.39	2432.3	2553.7	0.4224	8.0510	8.4734
5.0	32.87	0.001005	28.185	137.75	2282.1	2419.8	137.75	2423.0	2560.7	0.4762	7.9176	8.3938
7.5	40.29	0.001008	19.233	168.74	2261.1	2429.8	168.75	2405.3	2574.0	0.5763	7.6738	8.2501
10	45.81	0.001010	14.670	191.79	2245.4	2437.2	191.81	2392.1	2583.9	0.6492	7.4996	8.1488
15	53.97	0.001014	10.202	225.93	2222.1	2448.0	225.94	2372.3	2598.3	0.7549	7.2522	8.0071
20	60.06	0.001017	7.6481	251.40	2204.6	2456.0	251.42	2357.5	2608.9	0.8320	7.0752	7.9073
25	64.96	0.001020	6.2034	271.93	2190.4	2462.4	271.96	2345.5	2617.5	0.8932	6.9370	7.8302
30	69.09	0.001022	5.2287	289.24	2178.5	2467.7	289.27	2335.3	2626.6	0.9441	6.8234	7.7675
40	75.86	0.001026	3.9933	317.58	2158.8	2476.3	317.62	2318.4	2636.1	1.0261	6.6430	7.6691
50	81.32	0.001030	3.2403	340.49	2142.7	2483.2	340.54	2304.7	2645.2	1.0912	6.5019	7.5931
75	91.76	0.001037	2.2172	384.36	2111.8	2496.1	384.44	2278.0	2662.4	1.2132	6.2426	7.4558
100	99.61	0.001043	1.6941	417.40	2088.2	2505.6	417.51	2257.5	2675.0	1.3028	6.0562	7.3589
101.325	99.97	0.001043	1.6734	418.95	2087.0	2506.0	419.06	2256.5	2675.6	1.3069	6.0476	7.3545
125	105.97	0.001048	1.3750	444.23	2068.8	2513.0	444.36	2240.6	2684.9	1.3741	5.9100	7.2841
150	111.35	0.001053	1.1594	466.97	2052.3	2519.2	467.13	2226.0	2693.1	1.4337	5.7894	7.2231
175	116.04	0.001057	1.0037	486.82	2037.7	2524.5	487.01	2213.1	2700.2	1.4850	5.6865	7.1716
200	120.21	0.001061	0.88578	504.50	2024.6	2529.1	504.71	2201.6	2706.3	1.5302	5.5968	7.1270
225	123.97	0.001064	0.79329	520.47	2012.7	2533.2	520.71	2191.0	2711.7	1.5706	5.5171	7.0877
250	127.41	0.001067	0.71873	535.08	2001.8	2536.8	535.35	2181.2	2716.5	1.6072	5.4453	7.0525
275	130.58	0.001070	0.65732	548.57	1991.6	2540.1	548.86	2172.0	2720.9	1.6408	5.3800	7.0207
300	133.52	0.001073	0.60582	561.11	1982.1	2543.2	561.43	2163.5	2724.9	1.6717	5.3200	6.9917
325	136.27	0.001076	0.56199	572.84	1973.1	2545.9	573.19	2155.4	2728.6	1.7005	5.2645	6.9650
350	138.86	0.001079	0.52422	583.89	1964.6	2548.5	584.26	2147.7	2732.0	1.7274	5.2128	6.9402
375	141.30	0.001081	0.49133	594.32	1956.6	2550.9	594.73	2140.4	2735.1	1.7526	5.1645	6.9171
400	143.61	0.001084	0.46242	604.22	1948.9	2553.1	604.66	2133.4	2738.1	1.7765	5.1191	6.8955
450	147.90	0.001088	0.41392	622.65	1934.5	2557.1	623.14	2120.3	2743.4	1.8205	5.0356	6.8561
500	151.83	0.001093	0.37483	639.54	1921.2	2560.7	640.09	2108.0	2748.1	1.8604	4.9603	6.8207
550	155.46	0.001097	0.34261	655.16	1908.8	2563.9	655.77	2096.6	2752.4	1.8970	4.8916	6.7886
600	158.83	0.001101	0.31560	669.72	1897.1	2566.8	670.38	2085.8	2756.2	1.9308	4.8285	6.7593
650	161.98	0.001104	0.29260	683.37	1886.1	2569.4	684.08	2075.5	2759.6	1.9623	4.7699	6.7322
700	164.95	0.001108	0.27278	696.23	1875.6	2571.8	697.00	2065.8	2762.8	1.9918	4.7153	6.7071
750	167.75	0.001111	0.25552	708.40	1865.6	2574.0	709.24	2056.4	2765.7	2.0195	4.6642	6.6837

Molar mass, gas constant, and critical-point properties S.I unit

Substance	Formula	Molar mass, M kg/kmol	Gas constant, R kJ/kg · K*	Critical-point properties		
				Temperature, K	Pressure, MPa	Volume, m ³ /kmol
Air	—	28.97	0.2870	132.5	3.77	0.0883
Ammonia	NH ₃	17.03	0.4882	405.5	11.28	0.0724
Argon	Ar	39.948	0.2081	151	4.86	0.0749
Benzene	C ₆ H ₆	78.115	0.1064	562	4.92	0.2603
Bromine	Br ₂	159.808	0.0520	584	10.34	0.1355
n-Butane	C ₄ H ₁₀	58.124	0.1430	425.2	3.80	0.2547
Carbon dioxide	CO ₂	44.01	0.1889	304.2	7.39	0.0943
Carbon monoxide	CO	28.011	0.2968	133	3.50	0.0930
Carbon tetrachloride	CCl ₄	153.82	0.05405	556.4	4.56	0.2759
Chlorine	Cl ₂	70.906	0.1173	417	7.71	0.1242
Chloroform	CHCl ₃	119.38	0.06964	536.6	5.47	0.2403
Dichlorodifluoromethane (R-12)	CCl ₂ F ₂	120.91	0.06876	384.7	4.01	0.2179
Dichlorofluoromethane (R-21)	CHCl ₂ F	102.92	0.08078	451.7	5.17	0.1973
Ethane	C ₂ H ₆	30.070	0.2765	305.5	4.48	0.1480
Ethyl alcohol	C ₂ H ₅ OH	46.07	0.1805	516	6.38	0.1673
Ethylene	C ₂ H ₄	28.054	0.2964	282.4	5.12	0.1242
Helium	He	4.003	2.0769	5.3	0.23	0.0578

Saturated water—Pressure table (Continued) S.I unit

Press., P kPa	Specific volume, m ³ /kg			Internal energy, kJ/kg			Enthalpy, kJ/kg			Entropy, kJ/kg · K		
	Sat. temp., T _{sat} °C	Sat. liquid, v _f	Sat. vapor, v _g	Sat. liquid, u _f	Evap., u _{fg}	Sat. vapor, u _g	Sat. liquid, h _f	Evap., h _{fg}	Sat. vapor, h _g	Sat. liquid, s _f	Evap., s _{fg}	Sat. vapor, s _g
800	170.41	0.001115	0.24035	719.97	1856.1	2576.0	720.87	2047.5	2768.3	2.0457	4.6160	6.6616
850	172.94	0.001118	0.22690	731.00	1846.9	2577.9	731.95	2038.8	2770.8	2.0705	4.5705	6.6409
900	175.35	0.001121	0.21489	741.55	1838.1	2579.6	742.56	2030.5	2773.0	2.0941	4.5273	6.6213
950	177.66	0.001124	0.20411	751.67	1829.6	2581.3	752.74	2022.4	2775.2	2.1166	4.4862	6.6027
1000	179.88	0.001127	0.19436	761.39	1821.4	2582.8	762.51	2014.6	2777.1	2.1381	4.4470	6.5850
1100	184.06	0.001133	0.17745	779.78	1805.7	2585.5	781.03	1999.6	2780.7	2.1785	4.3735	6.5520
1200	187.96	0.001138	0.16326	796.96	1790.9	2587.8	798.33	1985.4	2783.8	2.2159	4.3058	6.5217
1300	191.60	0.001144	0.15119	813.10	1776.8	2589.9	814.59	1971.9	2786.5	2.2508	4.2428	6.4936
1400	195.04	0.001149	0.14078	828.35	1763.4	2591.8	829.96	1958.9	2788.9	2.2835	4.1840	6.4675
1500	198.29	0.001154	0.13171	842.82	1750.6	2593.4	844.55	1946.4	2791.0	2.3143	4.1287	6.4430
1750	205.72	0.001166	0.11344	876.12	1720.6	2596.7	878.16	1917.1	2795.2	2.3844	4.0033	6.3877
2000	212.38	0.001177	0.099587	906.12	1693.0	2599.1	908.47	1889.8	2798.3	2.4467	3.8923	6.3390
2250	218.41	0.001187	0.088717	933.54	1667.3	2600.9	936.21	1864.3	2800.5	2.5029	3.7926	6.2954
2500	223.95	0.001197	0.079952	958.87	1643.2	2602.1	961.87	1840.1	2801.9	2.5542	3.7016	6.2558
3000	233.85	0.001217	0.066667	1004.6	1598.5	2603.2	1008.3	1794.9	2803.2	2.6454	3.5402	6.1856
3500	242.56	0.001235	0.057061	1045.4	1557.6	2603.0	1049.7	1753.0	2802.7	2.7253	3.3991	6.1244
4000	250.35	0.001252	0.049779	1082.4	1519.3	2601.7	1087.4	1713.5	2800.8	2.7966	3.2731	6.0696
5000	263.94	0.001286	0.039448	1148.1	1448.9	2597.0	1154.5	1639.7	2794.2	2.9207	3.0530	5.9737
6000	275.59	0.001319	0.032449	1205.8	1384.1	2589.9	1213.8	1570.9	2784.6	3.0275	2.8627	5.8902
7000	285.83	0.001352	0.027378	1258.0	1323.0	2581.0	1267.5	1505.2	2772.6	3.1220	2.6927	5.8148
8000	295.01	0.001384	0.023525	1306.0	1264.5	2570.5	1317.1	1441.6	2758.7	3.2077	2.5373	5.7450
9000	303.35	0.001418	0.020489	1350.9	1207.6	2558.5	1363.7	1379.3	2742.9	3.2866	2.3925	5.6791
10,000	311.00	0.001452	0.018028	1393.3	1151.8	2545.2	1407.8	1317.6	2725.5	3.3603	2.2556	5.6159
11,000	318.08	0.001488	0.015988	1433.9	1096.6	2530.4	1450.2	1256.1	2706.3	3.4299	2.1245	5.5544
12,000	324.68	0.001526	0.014264	1473.0	1041.3	2514.3	1491.3	1194.1	2685.4	3.4964	1.9975	5.4939
13,000	330.85	0.001566	0.012781	1511.0	985.5	2496.6	1531.4	1131.3	2662.7	3.5606	1.8730	5.4336
14,000	336.67	0.001610	0.011487	1548.4	928.7	2477.1	1571.0	1067.0	2637.9	3.6232	1.7497	5.3728
15,000	342.16	0.001657	0.010341	1585.5	870.3	2455.7	1610.3	1000.5	2610.8	3.6848	1.6261	5.3108
16,000	347.36	0.001710	0.009312	1622.6	809.4	2432.0	1649.9	931.1	2581.0	3.7461	1.5005	5.2466
17,000	352.29	0.001770	0.008374	1660.2	745.1	2405.4	1690.3	857.4	2547.7	3.8082	1.3709	5.1791
18,000												

Superheated water S.I unit

T °C	v m³/kg	u kJ/kg	h kJ/kg	s kJ/kg · K	v m³/kg	u kJ/kg	h kJ/kg	s kJ/kg · K	v m³/kg	u kJ/kg	h kJ/kg	s kJ/kg · K																																																																																																																																																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">P = 0.01 MPa (45.81°C)*</th> <th colspan="4">P = 0.05 MPa (81.32°C)</th> <th colspan="4">P = 0.10 MPa (99.61°C)</th> </tr> <tr> <td>Sat. 1</td><td>14.670</td><td>2437.2</td><td>2583.9</td><td>8.1488</td> <td>3.2403</td><td>2483.2</td><td>2645.2</td><td>7.5931</td> <td>1.6941</td><td>2505.6</td><td>2675.0</td><td>7.3589</td> </tr> <tr> <td>100</td><td>14.867</td><td>2443.3</td><td>2592.0</td><td>8.1741</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>150</td><td>17.196</td><td>2515.5</td><td>2687.5</td><td>8.4489</td> <td>3.4187</td><td>2511.5</td><td>2682.4</td><td>7.6953</td> <td>1.6959</td><td>2506.2</td><td>2675.8</td><td>7.3611</td> </tr> <tr> <td>100</td><td>19.513</td><td>2587.9</td><td>2783.0</td><td>8.6893</td> <td>3.8897</td><td>2585.7</td><td>2780.2</td><td>7.9413</td> <td>1.9367</td><td>2582.9</td><td>2776.6</td><td>7.6148</td> </tr> <tr> <td>200</td><td>21.826</td><td>2661.4</td><td>2879.6</td><td>8.9049</td> <td>4.3562</td><td>2660.0</td><td>2877.8</td><td>8.1592</td> <td>2.1724</td><td>2658.2</td><td>2875.5</td><td>7.8356</td> </tr> <tr> <td>250</td><td>24.136</td><td>2736.1</td><td>2977.5</td><td>9.1015</td> <td>4.8206</td><td>2735.1</td><td>2976.2</td><td>8.3568</td> <td>2.4062</td><td>2733.9</td><td>2974.5</td><td>8.0346</td> </tr> <tr> <td>300</td><td>26.446</td><td>2812.3</td><td>3076.7</td><td>9.2827</td> <td>5.2841</td><td>2811.6</td><td>3075.8</td><td>8.5387</td> <td>2.6389</td><td>2810.7</td><td>3074.5</td><td>8.2172</td> </tr> <tr> <td>400</td><td>31.063</td><td>2969.3</td><td>3280.0</td><td>9.6094</td> <td>6.2094</td><td>2968.9</td><td>3279.3</td><td>8.8659</td> <td>3.1027</td><td>2968.3</td><td>3278.6</td><td>8.5452</td> </tr> <tr> <td>500</td><td>35.680</td><td>3132.9</td><td>3489.7</td><td>9.8998</td> <td>7.1338</td><td>3132.6</td><td>3489.3</td><td>9.1566</td> <td>3.5655</td><td>3132.2</td><td>3488.7</td><td>8.8362</td> </tr> <tr> <td>600</td><td>40.296</td><td>3303.3</td><td>3706.3</td><td>10.1631</td> <td>8.0577</td><td>3303.1</td><td>3706.0</td><td>9.4201</td> <td>4.0279</td><td>3302.8</td><td>3705.6</td><td>9.0999</td> </tr> <tr> <td>700</td><td>44.911</td><td>3480.8</td><td>3929.9</td><td>10.4056</td> <td>8.9813</td><td>3480.6</td><td>3929.7</td><td>9.6626</td> <td>4.4900</td><td>3480.4</td><td>3929.4</td><td>9.3424</td> </tr> <tr> <td>800</td><td>49.527</td><td>3665.4</td><td>4160.6</td><td>10.6312</td> <td>9.9047</td><td>3665.2</td><td>4160.4</td><td>9.8883</td> <td>4.9519</td><td>3665.0</td><td>4160.2</td><td>9.5682</td> </tr> <tr> <td>900</td><td>54.143</td><td>3856.9</td><td>4398.3</td><td>10.8429</td> <td>10.8280</td><td>3856.8</td><td>4398.2</td><td>10.1000</td> <td>5.4137</td><td>3856.7</td><td>4398.0</td><td>9.7800</td> </tr> <tr> <td>1000</td><td>58.758</td><td>4055.3</td><td>4642.8</td><td>11.0249</td> <td>11.7513</td><td>4055.2</td><td>4642.7</td><td>10.3000</td> <td>5.8755</td><td>4055.0</td><td>4642.6</td><td>9.9800</td> </tr> <tr> <td>1100</td><td>63.373</td><td>4260.0</td><td>4893.8</td><td>11.2326</td> <td>12.6745</td><td>4259.9</td><td>4893.7</td><td>10.4897</td> <td>6.3372</td><td>4259.8</td><td>4893.6</td><td>10.1698</td> </tr> <tr> <td>1200</td><td>67.989</td><td>4470.9</td><td>5150.8</td><td>11.4132</td> <td>13.5977</td><td>4470.8</td><td>5150.7</td><td>10.6704</td> <td>6.7988</td><td>4470.7</td><td>5150.6</td><td>10.3504</td> </tr> <tr> <td>1300</td><td>72.604</td><td>4687.4</td><td>5413.4</td><td>11.5857</td> <td>14.5209</td><td>4687.3</td><td>5413.3</td><td>10.8429</td> <td>7.2605</td><td>4687.2</td><td>5413.3</td><td>10.5229</td> </tr> </table>													P = 0.01 MPa (45.81°C)*				P = 0.05 MPa (81.32°C)				P = 0.10 MPa (99.61°C)				Sat. 1	14.670	2437.2	2583.9	8.1488	3.2403	2483.2	2645.2	7.5931	1.6941	2505.6	2675.0	7.3589	100	14.867	2443.3	2592.0	8.1741									150	17.196	2515.5	2687.5	8.4489	3.4187	2511.5	2682.4	7.6953	1.6959	2506.2	2675.8	7.3611	100	19.513	2587.9	2783.0	8.6893	3.8897	2585.7	2780.2	7.9413	1.9367	2582.9	2776.6	7.6148	200	21.826	2661.4	2879.6	8.9049	4.3562	2660.0	2877.8	8.1592	2.1724	2658.2	2875.5	7.8356	250	24.136	2736.1	2977.5	9.1015	4.8206	2735.1	2976.2	8.3568	2.4062	2733.9	2974.5	8.0346	300	26.446	2812.3	3076.7	9.2827	5.2841	2811.6	3075.8	8.5387	2.6389	2810.7	3074.5	8.2172	400	31.063	2969.3	3280.0	9.6094	6.2094	2968.9	3279.3	8.8659	3.1027	2968.3	3278.6	8.5452	500	35.680	3132.9	3489.7	9.8998	7.1338	3132.6	3489.3	9.1566	3.5655	3132.2	3488.7	8.8362	600	40.296	3303.3	3706.3	10.1631	8.0577	3303.1	3706.0	9.4201	4.0279	3302.8	3705.6	9.0999	700	44.911	3480.8	3929.9	10.4056	8.9813	3480.6	3929.7	9.6626	4.4900	3480.4	3929.4	9.3424	800	49.527	3665.4	4160.6	10.6312	9.9047	3665.2	4160.4	9.8883	4.9519	3665.0	4160.2	9.5682	900	54.143	3856.9	4398.3	10.8429	10.8280	3856.8	4398.2	10.1000	5.4137	3856.7	4398.0	9.7800	1000	58.758	4055.3	4642.8	11.0249	11.7513	4055.2	4642.7	10.3000	5.8755	4055.0	4642.6	9.9800	1100	63.373	4260.0	4893.8	11.2326	12.6745	4259.9	4893.7	10.4897	6.3372	4259.8	4893.6	10.1698	1200	67.989	4470.9	5150.8	11.4132	13.5977	4470.8	5150.7	10.6704	6.7988	4470.7	5150.6	10.3504	1300	72.604	4687.4	5413.4	11.5857	14.5209	4687.3	5413.3	10.8429	7.2605	4687.2	5413.3	10.5229
P = 0.01 MPa (45.81°C)*				P = 0.05 MPa (81.32°C)				P = 0.10 MPa (99.61°C)																																																																																																																																																																																																																																													
Sat. 1	14.670	2437.2	2583.9	8.1488	3.2403	2483.2	2645.2	7.5931	1.6941	2505.6	2675.0	7.3589																																																																																																																																																																																																																																									
100	14.867	2443.3	2592.0	8.1741																																																																																																																																																																																																																																																	
150	17.196	2515.5	2687.5	8.4489	3.4187	2511.5	2682.4	7.6953	1.6959	2506.2	2675.8	7.3611																																																																																																																																																																																																																																									
100	19.513	2587.9	2783.0	8.6893	3.8897	2585.7	2780.2	7.9413	1.9367	2582.9	2776.6	7.6148																																																																																																																																																																																																																																									
200	21.826	2661.4	2879.6	8.9049	4.3562	2660.0	2877.8	8.1592	2.1724	2658.2	2875.5	7.8356																																																																																																																																																																																																																																									
250	24.136	2736.1	2977.5	9.1015	4.8206	2735.1	2976.2	8.3568	2.4062	2733.9	2974.5	8.0346																																																																																																																																																																																																																																									
300	26.446	2812.3	3076.7	9.2827	5.2841	2811.6	3075.8	8.5387	2.6389	2810.7	3074.5	8.2172																																																																																																																																																																																																																																									
400	31.063	2969.3	3280.0	9.6094	6.2094	2968.9	3279.3	8.8659	3.1027	2968.3	3278.6	8.5452																																																																																																																																																																																																																																									
500	35.680	3132.9	3489.7	9.8998	7.1338	3132.6	3489.3	9.1566	3.5655	3132.2	3488.7	8.8362																																																																																																																																																																																																																																									
600	40.296	3303.3	3706.3	10.1631	8.0577	3303.1	3706.0	9.4201	4.0279	3302.8	3705.6	9.0999																																																																																																																																																																																																																																									
700	44.911	3480.8	3929.9	10.4056	8.9813	3480.6	3929.7	9.6626	4.4900	3480.4	3929.4	9.3424																																																																																																																																																																																																																																									
800	49.527	3665.4	4160.6	10.6312	9.9047	3665.2	4160.4	9.8883	4.9519	3665.0	4160.2	9.5682																																																																																																																																																																																																																																									
900	54.143	3856.9	4398.3	10.8429	10.8280	3856.8	4398.2	10.1000	5.4137	3856.7	4398.0	9.7800																																																																																																																																																																																																																																									
1000	58.758	4055.3	4642.8	11.0249	11.7513	4055.2	4642.7	10.3000	5.8755	4055.0	4642.6	9.9800																																																																																																																																																																																																																																									
1100	63.373	4260.0	4893.8	11.2326	12.6745	4259.9	4893.7	10.4897	6.3372	4259.8	4893.6	10.1698																																																																																																																																																																																																																																									
1200	67.989	4470.9	5150.8	11.4132	13.5977	4470.8	5150.7	10.6704	6.7988	4470.7	5150.6	10.3504																																																																																																																																																																																																																																									
1300	72.604	4687.4	5413.4	11.5857	14.5209	4687.3	5413.3	10.8429	7.2605	4687.2	5413.3	10.5229																																																																																																																																																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">P = 0.20 MPa (120.21°C)</th> <th colspan="4">P = 0.30 MPa (133.52°C)</th> <th colspan="4">P = 0.40 MPa (143.61°C)</th> </tr> <tr> <td>Sat. 1</td><td>0.88578</td><td>2529.1</td><td>2706.3</td><td>7.1270</td> <td>0.60582</td><td>2543.2</td><td>2724.9</td><td>6.9917</td> <td>0.46242</td><td>2553.1</td><td>2738.1</td><td>6.8955</td> </tr> <tr> <td>150</td><td>0.95986</td><td>2577.1</td><td>2769.1</td><td>7.2810</td> <td>0.63402</td><td>2571.0</td><td>2761.2</td><td>7.0792</td> <td>0.47088</td><td>2564.2</td><td>2752.8</td><td>6.9306</td> </tr> <tr> <td>200</td><td>1.08049</td><td>2654.6</td><td>2870.7</td><td>7.5081</td> <td>0.71643</td><td>2651.0</td><td>2865.9</td><td>7.3132</td> <td>0.53434</td><td>2647.2</td><td>2860.9</td><td>7.1723</td> </tr> <tr> <td>250</td><td>1.19890</td><td>2731.4</td><td>2971.2</td><td>7.7100</td> <td>0.79645</td><td>2728.9</td><td>2967.9</td><td>7.5180</td> <td>0.59520</td><td>2726.4</td><td>2964.5</td><td>7.3804</td> </tr> <tr> <td>300</td><td>1.31623</td><td>2808.8</td><td>3072.1</td><td>7.8941</td> <td>0.87535</td><td>2807.0</td><td>3069.6</td><td>7.7037</td> <td>0.65489</td><td>2805.1</td><td>3067.1</td><td>7.5677</td> </tr> <tr> <td>400</td><td>1.54934</td><td>2967.2</td><td>3277.0</td><td>8.2236</td> <td>1.03155</td><td>2966.0</td><td>3275.5</td><td>8.0347</td> <td>0.77265</td><td>2964.9</td><td>3273.9</td><td>7.9003</td> </tr> <tr> <td>500</td><td>1.78142</td><td>3131.4</td><td>3487.7</td><td>8.5153</td> <td>1.18672</td><td>3130.6</td><td>3486.6</td><td>8.3271</td> <td>0.88936</td><td>3129.8</td><td>3485.5</td><td>8.1933</td> </tr> <tr> <td>600</td><td>2.01302</td><td>3302.2</td><td>3704.8</td><td>8.7793</td> <td>1.34139</td><td>3301.6</td><td>3704.0</td><td>8.5915</td> <td>1.00558</td><td>3301.0</td><td>3703.3</td><td>8.4580</td> </tr> <tr> <td>700</td><td>2.24434</td><td>3479.9</td><td>3928.8</td><td>9.0221</td> <td>1.49580</td><td>3479.5</td><td>3928.2</td><td>8.8345</td> <td>1.12152</td><td>3479.0</td><td>3927.6</td><td>8.7012</td> </tr> <tr> <td>800</td><td>2.47550</td><td>3664.7</td><td>4159.8</td><td>9.2479</td> <td>1.65004</td><td>3664.3</td><td>4159.3</td><td>9.0605</td> <td>1.23730</td><td>3663.9</td><td>4158.9</td><td>8.9274</td> </tr> <tr> <td>900</td><td>2.70656</td><td>3856.3</td><td>4397.7</td><td>9.4598</td> <td>1.80417</td><td>3856.0</td><td>4397.3</td><td>9.2725</td> <td>1.35298</td><td>3855.7</td><td>4396.9</td><td>9.1394</td> </tr> <tr> <td>1000</td><td>2.93755</td><td>4054.8</td><td>4642.3</td><td>9.6599</td> <td>1.95824</td><td>4054.5</td><td>4642.0</td><td>9.4726</td> <td>1.46859</td><td>4054.3</td><td>4641.7</td><td>9.3396</td> </tr> <tr> <td>1100</td><td>3.16848</td><td>4259.6</td><td>4893.3</td><td>9.8497</td> <td>2.11226</td><td>4259.4</td><td>4893.1</td><td>9.6624</td> <td>1.58414</td><td>4259.2</td><td>4892.9</td><td>9.5295</td> </tr> <tr> <td>1200</td><td>3.39938</td><td>4470.5</td><td>5150.4</td><td>10.0304</td> <td>2.26624</td><td>4470.3</td><td>5150.2</td><td>9.8431</td> <td>1.69966</td><td>4470.2</td><td>5150.0</td><td>9.7102</td> </tr> <tr> <td>1300</td><td>3.63026</td><td>4687.1</td><td>5413.1</td><td>10.2029</td> <td>2.42019</td><td>4686.9</td><td>5413.0</td><td>10.0157</td> <td>1.81516</td><td>4686.7</td><td>5412.8</td><td>9.8828</td> </tr> </table>													P = 0.20 MPa (120.21°C)				P = 0.30 MPa (133.52°C)				P = 0.40 MPa (143.61°C)				Sat. 1	0.88578	2529.1	2706.3	7.1270	0.60582	2543.2	2724.9	6.9917	0.46242	2553.1	2738.1	6.8955	150	0.95986	2577.1	2769.1	7.2810	0.63402	2571.0	2761.2	7.0792	0.47088	2564.2	2752.8	6.9306	200	1.08049	2654.6	2870.7	7.5081	0.71643	2651.0	2865.9	7.3132	0.53434	2647.2	2860.9	7.1723	250	1.19890	2731.4	2971.2	7.7100	0.79645	2728.9	2967.9	7.5180	0.59520	2726.4	2964.5	7.3804	300	1.31623	2808.8	3072.1	7.8941	0.87535	2807.0	3069.6	7.7037	0.65489	2805.1	3067.1	7.5677	400	1.54934	2967.2	3277.0	8.2236	1.03155	2966.0	3275.5	8.0347	0.77265	2964.9	3273.9	7.9003	500	1.78142	3131.4	3487.7	8.5153	1.18672	3130.6	3486.6	8.3271	0.88936	3129.8	3485.5	8.1933	600	2.01302	3302.2	3704.8	8.7793	1.34139	3301.6	3704.0	8.5915	1.00558	3301.0	3703.3	8.4580	700	2.24434	3479.9	3928.8	9.0221	1.49580	3479.5	3928.2	8.8345	1.12152	3479.0	3927.6	8.7012	800	2.47550	3664.7	4159.8	9.2479	1.65004	3664.3	4159.3	9.0605	1.23730	3663.9	4158.9	8.9274	900	2.70656	3856.3	4397.7	9.4598	1.80417	3856.0	4397.3	9.2725	1.35298	3855.7	4396.9	9.1394	1000	2.93755	4054.8	4642.3	9.6599	1.95824	4054.5	4642.0	9.4726	1.46859	4054.3	4641.7	9.3396	1100	3.16848	4259.6	4893.3	9.8497	2.11226	4259.4	4893.1	9.6624	1.58414	4259.2	4892.9	9.5295	1200	3.39938	4470.5	5150.4	10.0304	2.26624	4470.3	5150.2	9.8431	1.69966	4470.2	5150.0	9.7102	1300	3.63026	4687.1	5413.1	10.2029	2.42019	4686.9	5413.0	10.0157	1.81516	4686.7	5412.8	9.8828																										
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Sat. 1	0.88578	2529.1	2706.3	7.1270	0.60582	2543.2	2724.9	6.9917	0.46242	2553.1	2738.1	6.8955																																																																																																																																																																																																																																									
150	0.95986	2577.1	2769.1	7.2810	0.63402	2571.0	2761.2	7.0792	0.47088	2564.2	2752.8	6.9306																																																																																																																																																																																																																																									
200	1.08049	2654.6	2870.7	7.5081	0.71643	2651.0	2865.9	7.3132	0.53434	2647.2	2860.9	7.1723																																																																																																																																																																																																																																									
250	1.19890	2731.4	2971.2	7.7100	0.79645	2728.9	2967.9	7.5180	0.59520	2726.4	2964.5	7.3804																																																																																																																																																																																																																																									
300	1.31623	2808.8	3072.1	7.8941	0.87535	2807.0	3069.6	7.7037	0.65489	2805.1	3067.1	7.5677																																																																																																																																																																																																																																									
400	1.54934	2967.2	3277.0	8.2236	1.03155	2966.0	3275.5	8.0347	0.77265	2964.9	3273.9	7.9003																																																																																																																																																																																																																																									
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600	2.01302	3302.2	3704.8	8.7793	1.34139	3301.6	3704.0	8.5915	1.00558	3301.0	3703.3	8.4580																																																																																																																																																																																																																																									
700	2.24434	3479.9	3928.8	9.0221	1.49580	3479.5	3928.2	8.8345	1.12152	3479.0	3927.6	8.7012																																																																																																																																																																																																																																									
800	2.47550	3664.7	4159.8	9.2479	1.65004	3664.3	4159.3	9.0605	1.23730	3663.9	4158.9	8.9274																																																																																																																																																																																																																																									
900	2.70656	3856.3	4397.7	9.4598	1.80417	3856.0	4397.3	9.2725	1.35298	3855.7	4396.9	9.1394																																																																																																																																																																																																																																									
1000	2.93755	4054.8	4642.3	9.6599	1.95824	4054.5	4642.0	9.4726	1.46859	4054.3	4641.7	9.3396																																																																																																																																																																																																																																									
1100	3.16848	4259.6	4893.3	9.8497	2.11226	4259.4	4893.1	9.6624	1.58414	4259.2	4892.9	9.5295																																																																																																																																																																																																																																									
1200	3.39938	4470.5	5150.4	10.0304	2.26624	4470.3	5150.2	9.8431	1.69966	4470.2	5150.0	9.7102																																																																																																																																																																																																																																									
1300	3.63026	4687.1	5413.1	10.2029	2.42019	4686.9	5413.0	10.0157	1.81516	4686.7	5412.8	9.8828																																																																																																																																																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">P = 0.50 MPa (151.83°C)</th> <th colspan="4">P = 0.60 MPa (158.83°C)</th> <th colspan="4">P = 0.80 MPa (170.41°C)</th> </tr> <tr> <td>Sat. 1</td><td>0.37483</td><td>2560.7</td><td>2748.1</td><td>6.8207</td> <td>0.31560</td><td>2566.8</td><td>2756.2</td><td>6.7593</td> <td>0.24035</td><td>2576.0</td><td>2768.3</td><td>6.6616</td> </tr> <tr> <td>200</td><td>0.42503</td><td>2643.3</td><td>2855.8</td><td>7.0610</td> <td>0.35212</td><td>2639.4</td><td>2850.6</td><td>6.9683</td> <td>0.26088</td><td>2631.1</td><td>2839.8</td><td>6.8177</td> </tr> <tr> <td>250</td><td>0.47443</td><td>2723.8</td><td>2961.0</td><td>7.2725</td> <td>0.39390</td><td>2721.2</td><td>2957.6</td><td>7.1833</td> <td>0.29321</td><td>2715.9</td><td>2950.4</td><td>7.0402</td> </tr> <tr> <td>300</td><td>0.52261</td><td>2803.3</td><td>3064.6</td><td>7.4614</td> <td>0.43442</td><td>2801.4</td><td>3062.0</td><td>7.3740</td> <td>0.32416</td><td>2797.5</td><td>3056.9</td><td>7.2345</td> </tr> <tr> <td>350</td><td>0.57015</td><td>2883.0</td><td>3168.1</td><td>7.6346</td> <td>0.47428</td><td>2881.6</td><td>3166.1</td><td>7.5481</td> <td>0.35442</td><td>2878.6</td><td>3162.2</td><td>7.4107</td> </tr> <tr> <td>400</td><td>0.61731</td><td>2963.7</td><td>3272.4</td><td>7.7956</td> <td>0.51374</td><td>2962.5</td><td>3270.8</td><td>7.7097</td> <td>0.38429</td><td>2962.0</td><td>3267.7</td><td>7.5735</td> </tr> <tr> <td>500</td><td>0.71095</td><td>3129.0</td><td>3484.5</td><td>8.0893</td> <td>0.59200</td><td>3128.2</td><td>3483.4</td><td>8.0041</td> <td>0.44332</td><td>3126.6</td><td>3481.3</td><td>7.8692</td> </tr> <tr> <td>600</td><td>0.80409</td><td>3300.4</td><td>3702.5</td><td>8.3544</td> <td>0.66976</td><td>3299.8</td><td>3701.7</td><td>8.2695</td> <td>0.50186</td><td>3298.7</td><td>3700.1</td><td>8.1354</td> </tr> <tr> <td>700</td><td>0.89696</td><td>3478.6</td><td>3927.0</td><td>8.5978</td> <td>0.74725</td><td>3478.1</td><td>3926.4</td><td>8.5132</td> <td>0.56011</td><td>3477.2</td><td>3925.3</td><td>8.3794</td> </tr> <tr> <td>800</td><td>0.98966</td><td>3663.6</td><td>4158.4</td><td>8.8240</td> <td>0.82457</td><td>3663.2</td><td>4157.9</td><td>8.7395</td> <td>0.61820</td><td>3662.5</td><td>4157.0</td><td>8.6061</td> </tr> <tr> <td>900</td><td>1.08227</td><td>3854.4</td><td>4396.6</td><td>9.0362</td> <td>0.90179</td><td>3855.1</td><td>4396.2</td><td>8.9518</td> <td>0.67619</td><td>3854.5</td><td>4395.5</td><td>8.8185</td> </tr> <tr> <td>1000</td><td>1.17480</td><td>4045.0</td><td>4641.4</td><td>9.2364</td> <td>0.97893</td><td>4053.8</td><td>4641.1</td><td>9.1521</td> <td>0.73411</td><td>4053.3</td><td>4640.5</td><td>9.0189</td> </tr> <tr> <td>1100</td><td>1.26728</td><td>4259.0</td><td>4892.6</td><td>9.4263</td> <td>1.05603</td><td>4258.8</td><td>4892.4</td><td>9.3420</td> <td>0.79197</td><td>4258.3</td><td>4891.9</td><td>9.2090</td> </tr> <tr> <td>1200</td><td>1.35972</td><td>4470.0</td><td>5149.8</td><td>9.6071</td> <td>1.13309</td><td>4469.8</td><td>5149.6</td><td>9.5229</td> <td>0.84980</td><td>4469.4</td><td>5149.3</td><td>9.3898</td> </tr> <tr> <td>1300</td><td>1.45214</td><td>4686.6</td><td>5412.6</td><td>9.7797</td> <td>1.21012</td><td>4686.4</td><td>5412.5</td><td>9.6955</td> <td>0.90761</td><td>4686.1</td><td>5412.2</td><td>9.5625</td> </tr> </table>													P = 0.50 MPa (151.83°C)				P = 0.60 MPa (158.83°C)				P = 0.80 MPa (170.41°C)				Sat. 1	0.37483	2560.7	2748.1	6.8207	0.31560	2566.8	2756.2	6.7593	0.24035	2576.0	2768.3	6.6616	200	0.42503	2643.3	2855.8	7.0610	0.35212	2639.4	2850.6	6.9683	0.26088	2631.1	2839.8	6.8177	250	0.47443	2723.8	2961.0	7.2725	0.39390	2721.2	2957.6	7.1833	0.29321	2715.9	2950.4	7.0402	300	0.52261	2803.3	3064.6	7.4614	0.43442	2801.4	3062.0	7.3740	0.32416	2797.5	3056.9	7.2345	350	0.57015	2883.0	3168.1	7.6346	0.47428	2881.6	3166.1	7.5481	0.35442	2878.6	3162.2	7.4107	400	0.61731	2963.7	3272.4	7.7956	0.51374	2962.5	3270.8	7.7097	0.38429	2962.0	3267.7	7.5735	500	0.71095	3129.0	3484.5	8.0893	0.59200	3128.2	3483.4	8.0041	0.44332	3126.6	3481.3	7.8692	600	0.80409	3300.4	3702.5	8.3544	0.66976	3299.8	3701.7	8.2695	0.50186	3298.7	3700.1	8.1354	700	0.89696	3478.6	3927.0	8.5978	0.74725	3478.1	3926.4	8.5132	0.56011	3477.2	3925.3	8.3794	800	0.98966	3663.6	4158.4	8.8240	0.82457	3663.2	4157.9	8.7395	0.61820	3662.5	4157.0	8.6061	900	1.08227	3854.4	4396.6	9.0362	0.90179	3855.1	4396.2	8.9518	0.67619	3854.5	4395.5	8.8185	1000	1.17480	4045.0	4641.4	9.2364	0.97893	4053.8	4641.1	9.1521	0.73411	4053.3	4640.5	9.0189	1100	1.26728	4259.0	4892.6	9.4263	1.05603	4258.8	4892.4	9.3420	0.79197	4258.3	4891.9	9.2090	1200	1.35972	4470.0	5149.8	9.6071	1.13309	4469.8	5149.6	9.5229	0.84980	4469.4	5149.3	9.3898	1300	1.45214	4686.6	5412.6	9.7797	1.21012	4686.4	5412.5	9.6955	0.90761	4686.1	5412.2	9.5625																										
P = 0.50 MPa (151.83°C)				P = 0.60 MPa (158.83°C)				P = 0.80 MPa (170.41°C)																																																																																																																																																																																																																																													
Sat. 1	0.37483	2560.7	2748.1	6.8207	0.31560	2566.8	2756.2	6.7593	0.24035	2576.0	2768.3	6.6616																																																																																																																																																																																																																																									
200	0.42503	2643.3	2855.8	7.0610	0.35212	2639.4	2850.6	6.9683	0.26088	2631.1	2839.8	6.8177																																																																																																																																																																																																																																									
250	0.47443	2723.8	2961.0	7.2725	0.39390	2721.2	2957.6	7.1833	0.29321	2715.9	2950.4	7.0402																																																																																																																																																																																																																																									
300	0.52261	2803.3	3064.6	7.4614	0.43442	2801.4	3062.0	7.3740	0.32416	2797.5	3056.9	7.2345																																																																																																																																																																																																																																									
350	0.57015	2883.0	3168.1	7.6346	0.47428	2881.6	3166.1	7.5481	0.35442	2878.6	3162.2	7.4107																																																																																																																																																																																																																																									
400	0.61731	2963.7	3272.4	7.7956	0.51374	2962.5	3270.8	7.7097	0.38429	2962.0	3267.7	7.5735																																																																																																																																																																																																																																									
500	0.71095	3129.0	3484.5	8.0893	0.59200	3128.2	3483.4	8.0041	0.44332	3126.6	3481.3	7.8692																																																																																																																																																																																																																																									
600	0.80409	3300.4	3702.5	8.3544	0.66976	3299.8	3701.7	8.2695	0.50186	3298.7	3700.1	8.1354																																																																																																																																																																																																																																									
700	0.89696	3478.6	3927.0	8.5978	0.74725	3478.1	3926.4	8.5132	0.56011	3477.2	3925.3	8.3794																																																																																																																																																																																																																																									
800	0.98966	3663.6	4158.4	8.8240	0.82457	3663.2	4157.9	8.7395	0.61820	3662.5	4157.0	8.6061																																																																																																																																																																																																																																									
900	1.08227	3854.4	4396.6	9.0362	0.90179	3855.1	4396.2	8.9518	0.67619	3854.5	4395.5	8.8185																																																																																																																																																																																																																																									
1000	1.17480	4045.0	4641.4	9.2364	0.97893	4053.8	4641.1	9.1521	0.73411	4053.3	4640.5	9.0189																																																																																																																																																																																																																																									
1100	1.26728	4259.0	4892.6	9.4263	1.05603	4258.8	4892.4	9.3420	0.79197	4258.3	4891.9	9.2090																																																																																																																																																																																																																																									
1200	1.35972	4470.0	5149.8	9.6071	1.13309	4469.8	5149.6	9.5229	0.84980	4469.4	5149.3	9.3898																																																																																																																																																																																																																																									
1300	1.45214	4686.6	5412.6	9.7797	1.21012	4686.4	5412.5	9.6955	0.90761	4686.1	5412.2	9.5625																																																																																																																																																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">P = 1.00 MPa (179.88°C)</th> <th colspan="4">P = 1.20 MPa (187.96°C)</th> <th colspan="4">P = 1.40 MPa (195.04°C)</th> </tr> <tr> <td>Sat. 1</td><td>0.19437</td><td>2582.8</td><td>2777.1</td><td>6.5850</td> <td>0.16326</td><td>2587.8</td><td>2783.8</td><td>6.5217</td> <td>0.14078</td><td>2591.8</td><td>2788.9</td><td>6.4675</td> </tr> <tr> <td>200</td><td>0.20602</td><td>2622.3</td><td>2828.3</td><td>6.6956</td> <td>0.16934</td><td>2612.9</td><td>2816.1</td><td>6.5909</td> <td>0.14303</td><td>2602.7</td><td>2803.0</td><td>6.4975</td> </tr> <tr> <td>250</td><td>0.23275</td><td>2710.4</td><td>2943.1</td><td>6.9265</td> <td>0.19241</td><td>2704.7</td><td>2935.6</td><td>6.8313</td> <td>0.16356</td><td>2698.9</td><td>2927.9</td><td>6.7488</td> </tr> <tr> <td>300</td><td>0.25799</td><td>2793.7</td><td>3051.6</td><td>7.1246</td> <td>0.21386</td><td>2789.7</td><td>3046.3</td><td>7.0335</td> <td>0.18233</td><td>2785.7</td><td>3040.9</td><td>6.9553</td> </tr> <tr> <td>350</td><td>0.28250</td><td>2875.7</td><td>3158.2</td><td>7.3029</td> <td>0.23455</td><td>2872.7</td><td>3154.2</td><td>7.2139</td> <td>0.20029</td><td>2869.7</td><td>3150.1</td><td>7.1379</td> </tr> <tr> <td>400</td><td>0.30661</td><td>2957.9</td><td>3264.5</td><td>7.4670</td> <td>0.25482</td><td>2955.5</td><td>3261.3</td><td>7.3793</td> <td>0.21782</td><td>2953.1</td><td>3258.1</td><td>7.3046</td> </tr> <tr> <td>500</td><td>0.35411</td><td>3125.0</td><td>3479.1</td><td>7.7642</td> <td>0.29464</td><td>3123.4</td><td>3477.0</td><td>7.6779</td> <td>0.25216</td><td>3121.8</td><td>3474.8</td><td>7.6047</td> </tr> <tr> <td>600</td><td>0.40111</td><td>3297.5</td><td>3698.6</td><td>8.0311</td> <td>0.33395</td><td>3296.3</td><td>3697.0</td><td>7.9456</td> <td>0.28597</td><td>3295.1</td><td>3695.5</td><td>7.8730</td> </tr> <tr> <td>700</td><td>0.44783</td><td>3476.3</td><td>3924.1</td><td>8.2755</td> <td>0.37297</td><td>3475.3</td><td>3922.9</td><td>8.1904</td> <td>0.31951</td><td>3474.4</td><td>3921.7</td><td>8.1183</td> </tr> <tr> <td>800</td><td>0.49438</td><td>3661.7</td><td>4156.1</td><td>8.5024</td> <td>0.41184</td><td>3661.0</td><td>4155.2</td><td>8.4176</td> <td>0.35288</td><td>3660.3</td><td>4154.3</td><td>8.3458</td> </tr> <tr> <td>900</td><td>0.54083</td><td>3853.9</td><td>4394.8</td><td>8.7150</td> <td>0.45059</td><td>3853.3</td><td>4394.0</td><td>8.6303</td> <td>0.38614</td><td>3852.7</td><td>4393.3</td><td>8.5587</td> </tr> <tr> <td>1000</td><td>0.58721</td><td>4052.7</td><td>4640.0</td><td>8.9155</td> <td>0.48928</td><td>4052.2</td><td>4639.4</td><td>8.8310</td> <td>0.41933</td><td>4051.7</td><td>4638.8</td><td>8.7595</td> </tr> <tr> <td>1100</td><td>0.63354</td><td>4257.9</td><td>4891.4</td><td>9.1057</td> <td>0.52792</td><td>4257.5</td><td>4891.0</td><td>9.0212</td> <td>0.45247</td><td>4257.0</td><td>4890.5</td><td>8.9497</td> </tr> <tr> <td>1200</td><td>0.67983</td><td>4469.0</td><td>5148.9</td><td>9.2866</td> <td>0.56652</td><td>4468.7</td><td>5148.5</td><td>9.2022</td> <td>0.48558</td><td>4468.3</td><td>5148.1</td><td>9.1308</td> </tr> <tr> <td>1300</td><td>0.72610</td><td>4685.8</td><td>5411.9</td><td>9.4593</td> <td>0.60509</td><td>4685.5</td><td>5411.6</td><td>9.3750</td> <td>0.51866</td><td>4685.1</td><td>5411.3</td><td>9.3036</td> </tr> </table>													P = 1.00 MPa (179.88°C)				P = 1.20 MPa (187.96°C)				P = 1.40 MPa (195.04°C)				Sat. 1	0.19437	2582.8	2777.1	6.5850	0.16326	2587.8	2783.8	6.5217	0.14078	2591.8	2788.9	6.4675	200	0.20602	2622.3	2828.3	6.6956	0.16934	2612.9	2816.1	6.5909	0.14303	2602.7	2803.0	6.4975	250	0.23275	2710.4	2943.1	6.9265	0.19241	2704.7	2935.6	6.8313	0.16356	2698.9	2927.9	6.7488	300	0.25799	2793.7	3051.6	7.1246	0.21386	2789.7	3046.3	7.0335	0.18233	2785.7	3040.9	6.9553	350	0.28250	2875.7	3158.2	7.3029	0.23455	2872.7	3154.2	7.2139	0.20029	2869.7	3150.1	7.1379	400	0.30661	2957.9	3264.5	7.4670	0.25482	2955.5	3261.3	7.3793	0.21782	2953.1	3258.1	7.3046	500	0.35411	3125.0	3479.1	7.7642	0.29464	3123.4	3477.0	7.6779	0.25216	3121.8	3474.8	7.6047	600	0.40111	3297.5	3698.6	8.0311	0.33395	3296.3	3697.0	7.9456	0.28597	3295.1	3695.5	7.8730	700	0.44783	3476.3	3924.1	8.2755	0.37297	3475.3	3922.9	8.1904	0.31951	3474.4	3921.7	8.1183	800	0.49438	3661.7	4156.1	8.5024	0.41184	3661.0	4155.2	8.4176	0.35288	3660.3	4154.3	8.3458	900	0.54083	3853.9	4394.8	8.7150	0.45059	3853.3	4394.0	8.6303	0.38614	3852.7	4393.3	8.5587	1000	0.58721	4052.7	4640.0	8.9155	0.48928	4052.2	4639.4	8.8310	0.41933	4051.7	4638.8	8.7595	1100	0.63354	4257.9	4891.4	9.1057	0.52792	4257.5	4891.0	9.0212	0.45247	4257.0	4890.5	8.9497	1200	0.67983	4469.0	5148.9	9.2866	0.56652	4468.7	5148.5	9.2022	0.48558	4468.3	5148.1	9.1308	1300	0.72610	4685.8	5411.9	9.4593	0.60509	4685.5	5411.6	9.3750	0.51866	4685.1	5411.3	9.3036																										
P = 1.00 MPa (179.88°C)				P = 1.20 MPa (187.96°C)				P = 1.40 MPa (195.04°C)																																																																																																																																																																																																																																													
Sat. 1	0.19437	2582.8	2777.1	6.5850	0.16326	2587.8	2783.8	6.5217	0.14078	2591.8	2788.9	6.4675																																																																																																																																																																																																																																									
200	0.20602	2622.3	2828.3	6.6956	0.16934	2612.9	2816.1	6.5909	0.14303	2602.7	2803.0	6.4975																																																																																																																																																																																																																																									
250	0.23275	2710.4	2943.1	6.9265	0.19241	2704.7	2935.6	6.8313	0.16356	2698.9	2927.9	6.7488																																																																																																																																																																																																																																									
300	0.25799	2793.7	3051.6	7.1246	0.21386	2789.7	3046.3	7.0335	0.18233	2785.7	3040.9	6.9553																																																																																																																																																																																																																																									
350	0.28250	2875.7	3158.2	7.3029	0.23455	2872.7	3154.2	7.2139	0.20029	2869.7	3150.1	7.1379																																																																																																																																																																																																																																									
400	0.30661	2957.9	3264.5	7.4670	0.25482	2955.5	3261.3	7.3793	0.21782	2953.1	3258.1	7.3046																																																																																																																																																																																																																																									
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600	0.40111	3297.5	3698.6	8.0311	0.33395	3296.3	3697.0	7.9456	0.28597	3295.1	3695.5	7.8730																																																																																																																																																																																																																																									
700	0.44783	3476.3	3924.1	8.2755	0.37297	3475.3	3922.9	8.1904	0.31951	3474.4	3921.7	8.1183																																																																																																																																																																																																																																									
800	0.49438	3661.7	4156.1	8.5024	0.41184	3661.0	4155.2	8.4176	0.35288	3660.3	4154.3	8.3458																																																																																																																																																																																																																																									
900	0.54083	3853.9	4394.8	8.7150	0.45059	3853.3	4394.0	8.6303	0.38614	3852.7	4393.3	8.5587																																																																																																																																																																																																																																									
1000	0.58721	4052.7	4640.0	8.9155	0.48928	4052.2	4639.4	8.8310	0.41933	4051.7	4638.8	8.7595																																																																																																																																																																																																																																									
1100	0.63354	4257.9	4891.4	9.1057	0.52792	4257.5	4891.0	9.0212	0.45247	4257.0	4890.5	8.9497																																																																																																																																																																																																																																									
1200	0.67983	4469.0	5148.9	9.2866	0.56652	4468.7	5148.5	9.2022	0.48558	4468.3	5148.1	9.1308																																																																																																																																																																																																																																									
1300	0.72610	4685.8	5411.9	9.4593	0.60509	4685.5	5411.6	9.3750	0.51866	4685.1	5411.3	9.3036																																																																																																																																																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">P = 1.60 MPa (201.37°C)</th> <th colspan="4">P = 1.80 MPa (207.11°C)</th> <th colspan="4">P = 2.00 MPa (212.38°C)</th> </tr> <tr> <td>Sat. 1</td><td>0.12374</td><td>2594.8</td><td>2792.8</td><td>6.4200</td> <td>0.11037</td><td>2597.3</td><td>2795.9</td><td>6.3775</td> <td>0.09959</td><td>2599.1</td><td>2798.3</td><td>6.3390</td> </tr> <tr> <td>225</td><td>0.13293</td><td>2645.1</td><td>2857.8</td><td>6.5537</td> <td>0.11678</td><td>2637.0</td><td>2847.2</td><td>6.4825</td> <td>0.10381</td><td>2628.5</td><td>2836.1</td><td>6.4160</td> </tr> <tr> <td>250</td><td>0.14190</td><td>2696.2</td><td>2919.9</td><td>6.6753</td> <td>0.12502</td><td>2686.7</td><td>2911.7</td><td>6.6088</td> <td>0.11150</td><td>2680.3</td><td>2903.3</td><td>6.5475</td> </tr> <tr> <td>300</td><td>0.15866</td><td>2781.6</td><td>3035.4</td><td>6.8864</td> <td>0.14025</td><td>2777.4</td><td>3029.9</td><td>6.8246</td> <td>0.12551</td><td>2773.2</td><td>3024.3</td><td>6.7684</td> </tr> <tr> <td>350</td><td>0.17459</td><td>2866.6</td><td>3146.0</td><td>7.0713</td> <td>0.15460</td><td>2863.6</td><td>3141.9</td><td>7.0120</td> <td>0.13860</td><td>2860.5</td><td>3137.7</td><td>6.9583</td> </tr> <tr> <td>400</td><td>0.19007</td><td>2950.8</td><td>3254.9</td><td>7.2394</td> <td>0.16849</td><td>2948.3</td><td>3251.6</td><td>7.1814</td> <td>0.15122</td><td>2945.9</td><td>3248.4</td><td>7.1292</td> </tr> <tr> <td>500</td><td>0.22029</td><td>3120.1</td><td>3472.6</td><td>7.5410</td> <td>0.19551</td><td>3118.5</td><td>3470.4</td><td>7.4845</td> <td>0.17568</td><td>3116.9</td><td>3468.7</td><td>7.4337</td> </tr> <tr> <td>600</td><td>0.24999</td><td>3293.9</td><td>3693.9</td><td>7.8101</td> <td>0.22200</td><td>3293.7</td><td>3692.3</td><td>7.7543</td> <td>0.19962</td><td>3291.5</td><td>3680.7</td><td>7.7043</td> </tr> <tr> <td>700</td><td>0.27941</td><td>3473.5</td><td>3920.5</td><td>8.0558</td> <td>0.24822</td><td>3472.6</td><td>3919.4</td><td>8.0005</td> <td>0.22326</td><td>3471.7</td><td>3918.2</td><td>7.9509</td> </tr> <tr> <td>800</td><td>0.30865</td><td>3659.5</td><td>4153.4</td><td>8.2834</td> <td>0.27426</td><td>3658.8</td><td>4152.4</td><td>8.2284</td> <td>0.24674</td><td>3658.0</td><td>4151.5</td><td>8.1791</td> </tr> <tr> <td>900</td><td>0.33780</td><td>3851.2</td><td>4392.6</td><td>8.4965</td> <td>0.30020</td><td>3851.5</td><td>4391.9</td><td>8.4417</td> <td>0.27012</td><td>3850.9</td><td>4391.1</td><td>8.3925</td> </tr> <tr> <td>1000</td><td>0.36687</td><td>4051.2</td><td>4638.2</td><td>8.6974</td> <td>0.32606</td><td>4050.7</td><td>4637.6</td><td>8.6427</td> <td>0.29342</td><td>4050.2</td><td>4637.1</td><td>8.5936</td> </tr> <tr> <td>1100</td><td>0.39589</td><td>4256.6</td><td>4890.0</td><td>8.8878</td> <td>0.35188</td><td>4256.2</td><td>4889.6</td><td>8.8331</td> <td>0.31667</td><td>4255.7</td><td>4889.1</td><td>8.7842</td> </tr> <tr> <td>1200</td><td>0.42488</td><td>4467.9</td><td>5147.7</td><td>9.0689</td> <td>0.37766</td><td>4467.6</td><td>5147.3</td><td>9.0143</td> <td>0.33989</td><td>4467.2</td><td>5</td></tr></table>													P = 1.60 MPa (201.37°C)				P = 1.80 MPa (207.11°C)				P = 2.00 MPa (212.38°C)				Sat. 1	0.12374	2594.8	2792.8	6.4200	0.11037	2597.3	2795.9	6.3775	0.09959	2599.1	2798.3	6.3390	225	0.13293	2645.1	2857.8	6.5537	0.11678	2637.0	2847.2	6.4825	0.10381	2628.5	2836.1	6.4160	250	0.14190	2696.2	2919.9	6.6753	0.12502	2686.7	2911.7	6.6088	0.11150	2680.3	2903.3	6.5475	300	0.15866	2781.6	3035.4	6.8864	0.14025	2777.4	3029.9	6.8246	0.12551	2773.2	3024.3	6.7684	350	0.17459	2866.6	3146.0	7.0713	0.15460	2863.6	3141.9	7.0120	0.13860	2860.5	3137.7	6.9583	400	0.19007	2950.8	3254.9	7.2394	0.16849	2948.3	3251.6	7.1814	0.15122	2945.9	3248.4	7.1292	500	0.22029	3120.1	3472.6	7.5410	0.19551	3118.5	3470.4	7.4845	0.17568	3116.9	3468.7	7.4337	600	0.24999	3293.9	3693.9	7.8101	0.22200	3293.7	3692.3	7.7543	0.19962	3291.5	3680.7	7.7043	700	0.27941	3473.5	3920.5	8.0558	0.24822	3472.6	3919.4	8.0005	0.22326	3471.7	3918.2	7.9509	800	0.30865	3659.5	4153.4	8.2834	0.27426	3658.8	4152.4	8.2284	0.24674	3658.0	4151.5	8.1791	900	0.33780	3851.2	4392.6	8.4965	0.30020	3851.5	4391.9	8.4417	0.27012	3850.9	4391.1	8.3925	1000	0.36687	4051.2	4638.2	8.6974	0.32606	4050.7	4637.6	8.6427	0.29342	4050.2	4637.1	8.5936	1100	0.39589	4256.6	4890.0	8.8878	0.35188	4256.2	4889.6	8.8331	0.31667	4255.7	4889.1	8.7842	1200	0.42488	4467.9	5147.7	9.0689	0.37766	4467.6	5147.3	9.0143	0.33989	4467.2	5																																								
P = 1.60 MPa (201.37°C)				P = 1.80 MPa (207.11°C)				P = 2.00 MPa (212.38°C)																																																																																																																																																																																																																																													
Sat. 1	0.12374	2594.8	2792.8	6.4200	0.11037	2597.3	2795.9	6.3775	0.09959	2599.1	2798.3	6.3390																																																																																																																																																																																																																																									
225	0.13293	2645.1	2857.8	6.5537	0.11678	2637.0	2847.2	6.4825	0.10381	2628.5	2836.1	6.4160																																																																																																																																																																																																																																									
250	0.14190	2696.2	2919.9	6.6753	0.12502	2686.7	2911.7	6.6088	0.11150	2680.3	2903.3	6.5475																																																																																																																																																																																																																																									
300	0.15866	2781.6	3035.4	6.8864	0.14025	2777.4	3029.9	6.8246	0.12551	2773.2	3024.3	6.7684																																																																																																																																																																																																																																									
350	0.17459	2866.6	3146.0	7.0713	0.15460	2863.6	3141.9	7.0120	0.13860	2860.5	3137.7	6.9583																																																																																																																																																																																																																																									
400	0.19007	2950.8	3254.9	7.2394	0.16849	2948.3	3251.6	7.1814	0.15122	2945.9	3248.4	7.1292																																																																																																																																																																																																																																									
500	0.22029	3120.1	3472.6	7.5410	0.19551	3118.5	3470.4	7.4845	0.17568	3116.9	3468.7	7.4337																																																																																																																																																																																																																																									
600	0.24999	3293.9	3693.9	7.8101	0.22200	3293.7	3692.3	7.7543	0.19962	3291.5	3680.7	7.7043																																																																																																																																																																																																																																									
700	0.27941	3473.5	3920.5	8.0558	0.24822	3472.6	3919.4	8.0005	0.22326	3471.7	3918.2	7.9509																																																																																																																																																																																																																																									
800	0.30865	3659.5	4153.4	8.2834	0.27426	3658.8	4152.4	8.2284	0.24674	3658.0	4151.5	8.1791																																																																																																																																																																																																																																									
900	0.33780	3851.2	4392.6	8.4965	0.30020	3851.5	4391.9	8.4417	0.27012	3850.9	4391.1	8.3925																																																																																																																																																																																																																																									
1000	0.36687	4051.2	4638.2	8.6974	0.32606	4050.7	4637.6	8.6427	0.29342	4050.2	4637.1	8.5936																																																																																																																																																																																																																																									
1100	0.39589	4256.6	4890.0	8.8878	0.35188	4256.2	4889.6	8.8331	0.31667	4255.7	4889.1	8.7842																																																																																																																																																																																																																																									
1200	0.42488	4467.9	5147.7	9.0689	0.37766	4467.6	5147.3	9.0143	0.33989	4467.2	5																																																																																																																																																																																																																																										

Ideal-gas properties of air **S.I unit**

T	h	P _r	u	v _r	s°	T	h	P _r	u	v _r	s°
K	kJ/kg		kJ/kg		kJ/kg · K	K	kJ/kg		kJ/kg		kJ/kg · K
200	199.97	0.3363	142.56	1707.0	1.29559	750	767.29	37.35	551.99	57.63	2.64737
210	209.97	0.3987	149.69	1512.0	1.34444	760	778.18	39.27	560.01	55.54	2.66176
220	219.97	0.4690	156.82	1346.0	1.39105	780	800.03	43.35	576.12	51.64	2.69013
230	230.02	0.5477	164.00	1205.0	1.43557	800	821.95	47.75	592.30	48.08	2.71787
240	240.02	0.6355	171.13	1084.0	1.47824	820	843.98	52.59	608.59	44.84	2.74504
250	250.05	0.7329	178.28	979.0	1.51917	840	866.08	57.60	624.95	41.85	2.77170
260	260.09	0.8405	185.45	887.8	1.55848	860	888.27	63.09	641.40	39.12	2.79783
270	270.11	0.9590	192.60	808.0	1.59634	880	910.56	68.98	657.95	36.61	2.82344
280	280.13	1.0889	199.75	738.0	1.63279	900	932.93	75.29	674.58	34.31	2.84856
285	285.14	1.1584	203.33	706.1	1.65055	920	955.38	82.05	691.28	32.18	2.87324
290	290.16	1.2311	206.91	676.1	1.66802	940	977.92	89.28	708.08	30.22	2.89748
295	295.17	1.3068	210.49	647.9	1.68515	960	1000.55	97.00	725.02	28.40	2.92128
298	298.18	1.3543	212.64	631.9	1.69528	980	1023.25	105.2	741.98	26.73	2.94468
300	300.19	1.3860	214.07	621.2	1.70203	1000	1046.04	114.0	758.94	25.17	2.96770
305	305.22	1.4686	217.67	596.0	1.71865	1020	1068.89	123.4	776.10	23.72	2.99034
310	310.24	1.5546	221.25	572.3	1.73498	1040	1091.85	133.3	793.36	23.29	3.01260
315	315.27	1.6442	224.85	549.8	1.75106	1060	1114.86	143.9	810.62	21.14	3.03444
320	320.29	1.7375	228.42	528.6	1.76690	1080	1137.89	155.2	827.88	19.98	3.05608
325	325.31	1.8345	232.02	508.4	1.78249	1100	1161.07	167.1	845.33	18.896	3.07732
330	330.34	1.9352	235.61	489.4	1.79783	1120	1184.28	179.7	862.79	17.886	3.09825
340	340.42	2.149	242.82	454.1	1.82790	1140	1207.57	193.1	880.35	16.946	3.11883
350	350.49	2.379	250.02	422.2	1.85708	1160	1230.92	207.2	897.91	16.064	3.13916
360	360.58	2.626	257.24	393.4	1.88543	1180	1254.34	222.2	915.57	15.241	3.15916
370	370.67	2.892	264.46	367.2	1.91313	1200	1277.79	238.0	933.33	14.470	3.17888
380	380.77	3.176	271.69	343.4	1.94001	1220	1301.31	254.7	951.09	13.747	3.19834
390	390.88	3.481	278.93	321.5	1.96633	1240	1324.93	272.3	968.95	13.069	3.21751
400	400.98	3.806	286.16	301.6	1.99194	1260	1348.55	290.8	986.90	12.435	3.23638
410	411.12	4.153	293.43	283.3	2.01699	1280	1372.24	310.4	1004.76	11.835	3.25510
420	421.26	4.522	300.69	266.6	2.04142	1300	1395.97	330.9	1022.82	11.275	3.27345
430	431.43	4.915	307.99	251.1	2.06533	1320	1419.76	352.5	1040.88	10.747	3.29160
440	441.61	5.332	315.30	236.8	2.08870	1340	1443.60	375.3	1058.94	10.247	3.30959
450	451.80	5.775	322.62	223.6	2.11161	1360	1467.49	399.1	1077.10	9.780	3.32724
460	462.02	6.245	329.97	211.4	2.13407	1380	1491.44	424.2	1095.26	9.337	3.34474
470	472.24	6.742	337.32	200.1	2.15604	1400	1515.42	450.5	1113.52	8.919	3.36200
480	482.49	7.268	344.70	189.5	2.17760	1420	1539.44	478.0	1131.77	8.526	3.37901
490	492.74	7.824	352.08	179.7	2.19876	1440	1563.51	506.9	1150.13	8.153	3.39586
500	503.02	8.411	359.49	170.6	2.21952	1460	1587.63	537.1	1168.49	7.801	3.41247
510	513.32	9.031	366.92	162.1	2.23993	1480	1611.79	568.8	1186.95	7.468	3.42892
520	523.63	9.684	374.36	154.1	2.25997	1500	1635.97	601.9	1205.41	7.152	3.44516
530	533.98	10.37	381.84	146.7	2.27967	1520	1660.23	636.5	1223.87	6.854	3.46120
540	544.35	11.10	389.34	139.7	2.29906	1540	1684.51	672.8	1242.43	6.569	3.47712
550	555.74	11.86	396.86	133.1	2.31809	1560	1708.82	710.5	1260.99	6.301	3.49276
560	565.17	12.66	404.42	127.0	2.33685	1580	1733.17	750.0	1279.65	6.046	3.50829
570	575.59	13.50	411.97	121.2	2.35531	1600	1757.57	791.2	1298.30	5.804	3.52364
580	586.04	14.38	419.55	115.7	2.37348	1620	1782.00	834.1	1316.96	5.574	3.53879
590	596.52	15.31	427.15	110.6	2.39140	1640	1806.46	878.9	1335.72	5.355	3.55381
600	607.02	16.28	434.78	105.8	2.40902	1660	1830.96	925.6	1354.48	5.147	3.56867
610	617.53	17.30	442.42	101.2	2.42644	1680	1855.50	974.2	1373.24	4.949	3.58335
620	628.07	18.36	450.09	96.92	2.44356	1700	1880.1	1025	1392.7	4.761	3.5979
630	638.63	19.44	457.78	92.84	2.46048	1750	1941.6	1161	1439.8	4.328	3.6336
640	649.22	20.64	465.50	88.99	2.47716	1800	2003.3	1310	1487.2	3.994	3.6684
650	659.84	21.86	473.25	85.34	2.49364	1850	2065.3	1475	1534.9	3.601	3.7023
660	670.47	23.13	481.01	81.89	2.50985	1900	2127.4	1655	1582.6	3.295	3.7354
670	681.14	24.46	488.81	78.61	2.52589	1950	2189.7	1852	1630.6	3.022	3.7677
680	691.82	25.85	496.62	75.50	2.54175	2000	2252.1	2068	1678.7	2.776	3.7994
690	702.52	27.29	504.45	72.56	2.55731	2050	2314.6	2303	1726.8	2.555	3.8303
700	713.27	28.80	512.33	69.76	2.57277	2100	2377.7	2559	1775.3	2.356	3.8605
710	724.04	30.38	520.23	67.07	2.58810	2150	2440.3	2837	1823.8	2.175	3.8901
720	734.82	32.02	528.14	64.53	2.60319	2200	2503.2	3138	1872.4	2.012	3.9191
730	745.62	33.72	536.07	62.13	2.61803	2250	2566.4	3464	1921.3	1.864	3.9474
740	756.44	35.50	544.02	59.82	2.63280						

Ideal-gas properties of air **English unit**

T	h	P _r	u	v _r	s°	T	h	P _r	u	v _r	s°
R	Btu/lbm		Btu/lbm		Btu/lbm · R	R	Btu/lbm		Btu/lbm		Btu/lbm · R
360	85.97	0.3363	61.29	396.6	0.50369	2200	560.59	256.6	409.78	3.176	0.95919
380	90.75	0.4061	64.70	346.6	0.51663	2250	574.69	281.4	420.46	2.961	0.96501
400	95.53	0.4858	68.11	305.0	0.52890	2300	588.82	308.1	431.16	2.765	0.97123
420	100.32	0.5760	71.52	270.1	0.54058	2350	603.00	336.8	441.91	2.585	0.97732
440	105.11	0.6776	74.93	240.6	0.55172	2400	617.22	367.6	452.70	2.419	0.98331
460	109.90	0.7913	78.36	215.33	0.56235	2450	631.48	400.5	463.54	2.266	0.98919
480	114.69	0.9182	81.77	193.65	0.57255	2500	645.78	435.7	474.40	2.125	0.99497
500	119.48	1.0590	85.20	174.90	0.58233	2550	660.12	473.3	485.31	1.996	1.00064
520	124.27	1.2147	88.62	158.58	0.59173	2600	674.49	513.5	496.26	1.876	1.00623
537	128.10	1.3593	91.53	146.34	0.59945	2650	688.90	556.3	507.25	1.765	1.01172
540	129.06	1.3860	92.04	144.32	0.60078	2700	703.35	601.9	518.26	1.662	1.01712
560	133.86	1.5742	95.47	131.78	0.60950	2750	717.83	650.4	529.31	1.566	1.02244
580	138.66	1.7800	98.90	120.70	0.61793	2800	732.33	702.0	540.40	1.478	1.02767
600	143.47	2.005	102.34	110.88	0.62607	2850	746.88	756.7	551.52	1.395	1.03282
620	148.28	2.249	105.78	102.12	0.63395	2900	761.45	814.8	562.66	1.318	1.03788
640	153.09	2.514	109.21	94.30	0.64159	2950	776.05	876.4	573.84	1.247	1.04288
660	157.92	2.801	112.67	87.27	0.64902	3000	790.68	941.4	585.04	1.180	1.04779
680	162.73	3.111	116.12	80.96	0.65621	3050	805.34	1011	596.28	1.118	1.05264
700	167.56	3.446	119.58	75.25	0.66321	3100	820.03	1083	607.53	1.060	1.05741
720	172.39	3.806	123.04	70.07	0.67002	3150	834.75	1161	618.82	1.006	1.06212
740	177.23	4.193	126.51	65.38	0.67665	3200	849.48	1242	630.12	0.955	1.06676
760	182.08	4.607	129.99	61.10	0.68312	3250	864.24	1328	641.46	0.907	1.07134
780	186.94	5.051	133.47	57.20	0.68942	3300	879.02	1418	652.81	0.8621	1.07585
800	191.81	5.526	136.97	53.63	0.69558	3350	893.83	1513	664.20	0.8202	1.08031
820	196.69	6.033	140.47	50.35	0.70160	3400	908.66	1613	675.60	0.7807	1.08470
840	201.56	6.573	143.98	47.34	0.70747	3450	923.52	1719	687.04	0.7436	1.08904
860	206.46	7.149	147.50	44.57	0.71323	3500	938.40	1829	698.48	0.7087	1.09332
880	211.35	7.761	151.02	42.01	0.71886	3550	953.30	1946	709.95	0.6759	1.09755
900	216.26	8.411	154.57	39.64	0.72438	3600	968.21	2068	721.44	0.6449	1.10172
920	221.18	9.102	158.12	37.44	0.72979						

Saturated water—Temperature table English unit

Temp., T °F	Specific volume, ft ³ /lbm			Internal energy, Btu/lbm			Enthalpy, Btu/lbm			Entropy, Btu/lbm · R		
	Sat. press., P _{sat} psia	Sat. liquid, v _f	Sat. vapor, v _g	Sat. liquid, u _f	Evap., u _{fg}	Sat. vapor, u _g	Sat. liquid, h _f	Evap., h _{fg}	Sat. vapor, h _g	Sat. liquid, s _f	Evap., s _{fg}	Sat. vapor, s _g
32.018	0.08871	0.01602	3299.9	0.000	1021.0	1021.0	0.000	1075.2	1075.2	0.00000	2.18672	2.1867
35	0.09998	0.01602	2945.7	3.004	1019.0	1022.0	3.004	1073.5	1076.5	0.00609	2.17011	2.1762
40	0.12173	0.01602	2443.6	8.032	1015.6	1023.7	8.032	1070.7	1078.7	0.01620	2.14271	2.1589
45	0.14756	0.01602	2035.8	13.05	1012.2	1025.3	13.05	1067.8	1080.9	0.02620	2.11587	2.1421
50	0.17812	0.01602	1703.1	18.07	1008.9	1026.9	18.07	1065.0	1083.1	0.03609	2.08956	2.1256
55	0.21413	0.01603	1430.4	23.07	1005.5	1028.6	23.07	1062.2	1085.3	0.04586	2.06377	2.1096
60	0.25638	0.01604	1206.1	28.08	1002.1	1030.2	28.08	1059.4	1087.4	0.05554	2.03847	2.0940
65	0.30578	0.01604	1020.8	33.08	998.76	1031.8	33.08	1056.5	1089.6	0.06511	2.01366	2.0788
70	0.36334	0.01605	867.18	38.08	995.39	1033.5	38.08	1053.7	1091.8	0.07459	1.98931	2.0639
75	0.43016	0.01606	739.27	43.07	992.02	1035.1	43.07	1050.9	1093.9	0.08398	1.96541	2.0494
80	0.50745	0.01607	632.41	48.06	988.65	1036.7	48.07	1048.0	1096.1	0.09328	1.94196	2.0352
85	0.59659	0.01609	542.80	53.06	985.28	1038.3	53.06	1045.2	1098.3	0.10248	1.91892	2.0214
90	0.69904	0.01610	467.40	58.05	981.90	1040.0	58.05	1042.4	1100.4	0.11161	1.89630	2.0079
95	0.81643	0.01612	403.74	63.04	978.52	1041.6	63.04	1039.5	1102.6	0.12065	1.87408	1.9947
100	0.95052	0.01613	349.83	68.03	975.14	1043.2	68.03	1036.7	1104.7	0.12961	1.85225	1.9819
110	1.2767	0.01617	264.96	78.01	968.36	1046.4	78.02	1031.0	1109.0	0.14728	1.80970	1.9570
120	1.6951	0.01620	202.94	88.00	961.56	1049.6	88.00	1025.2	1113.2	0.16466	1.76856	1.9332
130	2.2260	0.01625	157.09	97.99	954.73	1052.7	97.99	1019.4	1117.4	0.18174	1.72877	1.9105
140	2.8931	0.01629	122.81	107.98	947.87	1055.9	107.99	1013.6	1121.6	0.19855	1.69024	1.8888
150	3.7234	0.01634	96.929	117.98	940.98	1059.0	117.99	1007.8	1125.7	0.21508	1.65291	1.8680
160	4.7474	0.01639	77.185	127.98	934.05	1062.0	128.00	1001.8	1129.8	0.23136	1.61670	1.8481
170	5.9999	0.01645	61.982	138.00	927.08	1065.1	138.02	995.88	1133.9	0.24739	1.58155	1.8289
180	7.5197	0.01651	50.172	148.02	920.06	1068.1	148.04	989.85	1137.9	0.26318	1.54741	1.8106
190	9.3497	0.01657	40.920	158.05	912.99	1071.0	158.08	983.76	1141.8	0.27874	1.51421	1.7930
200	11.538	0.01663	33.613	168.10	905.87	1074.0	168.13	977.60	1145.7	0.29409	1.48191	1.7760
210	14.136	0.01670	27.998	178.15	898.68	1076.8	178.20	971.35	1149.5	0.30922	1.45046	1.7597
220	17.001	0.01677	23.136	188.16	891.24	1079.4	180.21	965.00	1153.3	0.32422	1.41980	1.7439
230	20.795	0.01684	19.374	198.31	884.10	1082.4	198.37	958.59	1157.0	0.33887	1.38989	1.7288
240	24.985	0.01692	16.316	208.41	876.70	1085.1	208.49	952.06	1160.6	0.35342	1.36069	1.7141
250	29.844	0.01700	13.816	218.54	869.21	1087.7	218.63	945.41	1164.0	0.36779	1.33216	1.6999
260	35.447	0.01708	11.760	228.68	861.62	1090.3	228.79	938.65	1167.4	0.38198	1.30425	1.6862
270	41.877	0.01717	10.059	238.85	853.94	1092.8	238.98	931.76	1170.7	0.39601	1.27694	1.6730
280	49.222	0.01726	8.6439	249.04	846.16	1095.2	249.20	924.74	1173.9	0.40989	1.25018	1.6601
290	57.573	0.01735	7.4607	259.26	838.27	1097.5	259.45	917.57	1177.0	0.42354	1.22393	1.6475
300	67.028	0.01745	6.4663	269.51	830.25	1099.8	269.73	910.24	1180.0	0.43720	1.19818	1.6354
310	77.691	0.01755	5.6266	279.79	822.11	1101.9	280.05	902.75	1182.8	0.45065	1.17289	1.6235
320	89.667	0.01765	4.9144	290.11	813.84	1104.0	290.40	895.09	1185.5	0.46396	1.14802	1.6120
330	103.07	0.01776	4.3076	300.46	805.43	1105.9	300.80	887.25	1188.1	0.47716	1.12355	1.6007
340	118.02	0.01787	3.7885	310.85	796.87	1107.7	311.24	879.22	1190.5	0.49024	1.09945	1.5897
350	134.63	0.01799	3.3425	321.29	788.16	1109.4	321.73	870.98	1192.7	0.50321	1.07570	1.5789
360	153.03	0.01811	2.9580	331.76	779.28	1111.0	332.28	862.53	1194.8	0.51607	1.05227	1.5683
370	173.36	0.01824	2.6252	342.29	770.23	1112.5	342.88	853.86	1196.7	0.52884	1.02914	1.5580
380	195.74	0.01836	2.3361	352.87	761.00	1113.9	353.53	844.96	1198.5	0.54152	1.00628	1.5478
390	220.33	0.01850	2.0842	363.50	751.58	1115.1	364.25	835.81	1200.1	0.55411	0.98356	1.5378
400	247.26	0.01864	1.8639	374.19	741.97	1116.2	375.04	826.39	1201.4	0.56663	0.96127	1.5279
410	276.69	0.01878	1.6706	384.94	732.14	1117.1	385.90	816.71	1202.6	0.57907	0.93908	1.5182
420	308.76	0.01894	1.5006	395.76	722.08	1117.8	396.84	806.74	1203.6	0.59145	0.91707	1.5085
430	343.64	0.01910	1.3505	406.65	711.80	1118.4	407.86	796.46	1204.3	0.60377	0.89522	1.4990
440	381.49	0.01926	1.2178	417.61	701.26	1118.9	418.97	785.87	1204.8	0.61603	0.87349	1.4895
450	422.47	0.01944	1.0999	428.66	690.47	1119.1	430.18	774.94	1205.1	0.62826	0.85187	1.4801
460	466.75	0.01962	0.99510	439.79	679.39	1119.2	441.48	763.65	1205.1	0.64044	0.83033	1.4708
470	514.52	0.01981	0.90158	451.01	668.02	1119.0	452.90	751.98	1204.9	0.65260	0.80885	1.4615
480	565.96	0.02001	0.81794	462.34	656.34	1118.7	464.43	739.91	1204.3	0.66474	0.78739	1.4521
490	621.24	0.02022	0.74296	473.77	644.32	1118.1	476.09	727.40	1203.5	0.67686	0.76594	1.4428
500	680.56	0.02044	0.67558	485.32	631.94	1117.3	487.89	714.44	1202.3	0.68899	0.74445	1.4334
510	744.11	0.02067	0.61489	496.99	619.17	1116.2	499.84	700.99	1200.8	0.70112	0.72290	1.4240
520	812.11	0.02092	0.56009	508.80	605.99	1114.8	511.94	687.01	1199.0	0.71327	0.70126	1.4146
530	884.74	0.02118	0.51051	520.76	592.35	1113.1	524.23	672.47	1196.7	0.72546	0.67947	1.4049
540	962.24	0.02146	0.46553	532.88	578.23	1111.1	536.70	657.31	1194.0	0.73770	0.65751	1.3952
550	1044.8	0.02176	0.42465	545.18	563.58	1108.8	549.39	641.47	1190.9	0.75000	0.63532	1.3853
560	1132.7	0.02207	0.38740	557.68	548.33	1106.0	562.31	624.91	1187.2	0.76238	0.61284	1.3752
570	1226.2	0.02242	0.35339	570.40	532.45	1102.8	575.49	607.55	1183.0	0.77486	0.59003	1.3649
580	1325.5	0.02279	0.32225	583.37	515.84	1099.2	588.95	589.29	1178.2	0.78748	0.56679	1.3543
590	1430.8	0.02319	0.29367	596.61	498.43	1095.0	602.75	570.04	1172.8	0.80026	0.54306	1.3433
600	1542.5	0.02362	0.26737	610.18	480.10	1090.3	616.92	549.67	1166.6	0.81323	0.51871	1.3319
610	1660.9	0.02411	0.24309	624.11	460.73	1084.8	631.52	528.03	1159.5	0.82645	0.49363	1.3201
620	1786.2	0.02464	0.22061	638.47	440.14	1078.6	646.62	504.92	1151.5	0.83998	0.46765	1.3076
630	1918.9	0.02524	0.19972	653.35	418.12	1071.5	662.32	480.07	1142.4	0.85389	0.44056	1.2944
640	2059.3	0.02593	0.18019	668.86	394.36	1063.2	678.74	453.14	1131.9	0.86828	0.41206	1.2803
650	2207.8	0.02673	0.16184	685.16	368.44	1053.6	696.08	423.65	1119.7	0.88332	0.38177	1.2651
660	2364.9	0.02767	0.14444	702.48	339.74	1042.2	714.59	390.84	1105.4	0.89922	0.34906	1.2483
670	2531.2	0.02884	0.12774	721.23	307.22	1028.5	734.74	353.54	1088.3	0.91636	0.31296	1.2293
680	2707.3	0.03035	0.11134	742.11	269.00	1011.1	757.32	309.57	1066.9	0.93541	0.27163	1.2070
690	2894.1	0.03255	0.09451	766.81	220.77	987.6	784.24	253.96	1038.2	0.95797	0.22089	1.1789
700	3093.0	0.03670	0.07482	801.75	146.50	948.3	822.76	168.32	991.1	0.99023	0.14514	1.1354
709.1	3200.1	0.04975	0.04975	866.61	0	866.6	896.07	0	896.1	1.05257	0	1.0526

Saturated water—Pressure table English unit

Press., P psia	Specific volume, ft ³ /lbm			Internal energy, Btu/lbm			Enthalpy, Btu/lbm			Entropy, Btu/lbm · R		
	Sat. temp., T _{sat} °F	Sat. liquid, v _f	Sat. vapor, v _g	Sat. liquid, u _f	Evap., u _{fg}	Sat. vapor, u _g	Sat. liquid, h _f	Evap., h _{fg}	Sat. vapor, h _g	Sat. liquid, s _f	Evap., s _{fg}	Sat. vapor, s _g
1	101.69	0.01614	333.49	69.72	973.99	1043.7	69.72	1035.7	1105.4	0.13262	1.84495	1.9776
2	126.02	0.01623	1									

Superheated water **English unit**

T °F	P = 1.0 psia (101.69°F)*				P = 5.0 psia (162.18°F)				P = 10 psia (193.16°F)			
	v ft³/lbm	u Btu/lbm	h Btu/lbm	s Btu/lbm · R	v ft³/lbm	u Btu/lbm	h Btu/lbm	s Btu/lbm · R	v ft³/lbm	u Btu/lbm	h Btu/lbm	s Btu/lbm · R
Sat.¹	333.49	1043.7	1105.4	1.9776	73.525	1062.7	1130.7	1.8438	38.425	1072.0	1143.1	1.7875
200	392.53	1077.5	1150.1	2.0509	78.153	1076.2	1148.5	1.8716	38.849	1074.5	1146.4	1.7926
240	416.44	1091.2	1168.3	2.0777	83.009	1090.3	1167.1	1.8989	41.326	1089.1	1165.5	1.8207
280	440.33	1105.0	1186.5	2.1030	87.838	1104.3	1185.6	1.9246	43.774	1103.4	1184.4	1.8469
320	464.20	1118.9	1204.8	2.1271	92.650	1118.4	1204.1	1.9490	46.205	1117.6	1203.1	1.8716
360	488.07	1132.9	1223.3	2.1502	97.452	1132.5	1222.6	1.9722	48.624	1131.9	1221.8	1.8950
400	511.92	1147.1	1241.8	2.1722	102.25	1146.7	1241.3	1.9944	51.035	1146.2	1240.6	1.9174
440	535.77	1161.3	1260.4	2.1934	107.03	1160.9	1260.0	2.0156	53.441	1160.5	1259.4	1.9388
500	571.54	1182.8	1288.6	2.2237	114.21	1182.6	1288.2	2.0461	57.041	1182.2	1287.8	1.9693
600	631.14	1219.4	1336.2	2.2709	126.15	1219.2	1335.9	2.0933	63.029	1219.0	1335.6	2.0167
700	690.73	1256.8	1384.6	2.3146	138.09	1256.7	1384.4	2.1371	69.007	1256.5	1384.2	2.0605
800	750.31	1295.1	1433.9	2.3553	150.02	1294.9	1433.7	2.1778	74.980	1294.8	1433.5	2.1010
1000	869.47	1374.2	1535.1	2.4299	173.86	1374.2	1535.0	2.2524	86.913	1374.1	1534.9	2.1763
1200	988.62	1457.1	1640.0	2.4972	197.70	1457.0	1640.0	2.3198	98.840	1457.0	1639.9	2.2433
1400	1107.8	1543.7	1748.7	2.5590	221.54	1543.7	1748.7	2.3816	110.762	1543.6	1748.6	2.3052
P = 15 psia (212.99°F) P = 20 psia (227.92°F) P = 40 psia (267.22°F)												
Sat.	26.297	1077.7	1150.7	1.7549	20.093	1081.8	1156.2	1.7319	10.501	1092.1	1169.8	1.6766
240	27.429	1087.8	1163.9	1.7742	20.478	1086.5	1162.3	1.7406				
280	29.085	1102.4	1183.2	1.8010	21.739	1101.4	1181.9	1.7679	10.713	1097.3	1176.6	1.6858
320	30.722	1116.9	1202.2	1.8260	22.980	1116.1	1201.2	1.7933	11.363	1112.9	1197.1	1.7128
360	32.348	1131.3	1221.1	1.8496	24.209	1131.0	1220.2	1.8171	11.999	1128.1	1216.9	1.7376
400	33.965	1145.7	1239.9	1.8721	25.429	1145.1	1239.3	1.8398	12.625	1143.1	1236.5	1.7610
440	35.576	1160.1	1258.8	1.8936	26.644	1159.7	1258.3	1.8614	13.244	1157.9	1256.0	1.7831
500	37.986	1181.9	1287.3	1.9243	28.458	1181.6	1286.9	1.8922	14.165	1180.2	1285.0	1.8143
600	41.988	1218.7	1335.3	1.9718	31.467	1218.5	1334.9	1.9398	15.686	1217.5	1333.6	1.8625
700	45.981	1256.3	1383.9	2.0156	34.467	1256.3	1383.7	1.9837	17.197	1255.3	1382.6	1.9067
800	49.967	1294.6	1433.3	2.0565	37.461	1294.5	1433.1	2.0247	18.702	1293.9	1432.3	1.9478
1000	57.930	1374.0	1534.8	2.1312	43.438	1373.8	1534.6	2.0994	21.700	1373.4	1534.1	2.0277
1200	65.885	1456.9	1639.8	2.1986	49.407	1456.8	1639.7	2.1668	24.691	1456.5	1639.3	2.0902
1400	73.836	1543.6	1748.5	2.2640	55.373	1543.5	1748.4	2.2287	27.678	1543.3	1748.1	2.1522
1600	81.784	1634.0	1861.0	2.3178	61.335	1633.9	1860.9	2.2861	30.662	1633.7	1860.7	2.2096
P = 60 psia (292.69°F) P = 80 psia (312.02°F) P = 100 psia (327.81°F)												
Sat.	7.1766	1098.1	1177.8	1.6442	5.4733	1102.3	1183.4	1.6212	4.4327	1105.5	1187.5	1.6032
320	7.4863	1109.6	1192.7	1.6636	5.5440	1105.9	1187.9	1.6271				
360	7.9259	1125.5	1213.5	1.6897	5.8876	1122.7	1209.9	1.6545	4.6628	1119.8	1206.1	1.6263
400	8.3548	1140.9	1233.7	1.7138	6.2187	1138.7	1230.8	1.6794	4.9359	1136.4	1227.8	1.6521
440	8.7766	1156.1	1253.6	1.7364	6.5420	1154.3	1251.2	1.7026	5.2006	1152.4	1248.7	1.6759
500	9.4005	1178.8	1283.1	1.7682	7.0177	1177.3	1281.2	1.7350	5.5876	1175.9	1279.3	1.7088
600	10.4256	1216.5	1332.2	1.8168	7.7951	1215.4	1330.8	1.7841	6.2167	1214.4	1329.4	1.7586
700	11.4401	1254.5	1381.6	1.8613	8.5616	1253.8	1380.5	1.8289	6.8344	1253.0	1379.5	1.8037
800	12.4484	1293.3	1431.5	1.9026	9.3218	1292.6	1430.6	1.8704	7.4457	1292.0	1429.8	1.8453
1000	14.4543	1373.0	1533.5	1.9777	10.8313	1372.6	1532.9	1.9457	8.6575	1372.2	1532.4	1.9208
1200	16.4525	1456.2	1638.9	2.0454	12.3331	1455.9	1638.5	2.0135	9.8615	1455.6	1638.1	1.9887
1400	18.4464	1543.0	1747.8	2.1073	13.8306	1542.8	1747.5	2.0755	11.0612	1542.6	1747.2	2.0508
1600	20.438	1633.5	1860.5	2.1648	15.3257	1633.3	1860.2	2.1330	12.2584	1633.2	1860.0	2.1083
1800	22.428	1727.6	1976.6	2.2187	16.8192	1727.5	1976.5	2.1869	13.4541	1727.3	1976.3	2.1622
2000	24.417	1825.2	2096.3	2.2694	18.3111	1825.0	2096.1	2.2376	14.6487	1824.9	2096.0	2.2130
P = 120 psia (341.25°F) P = 140 psia (353.03°F) P = 160 psia (363.54°F)												
Sat.	3.7289	1107.9	1190.8	1.5883	3.2202	1109.9	1193.4	1.5757	2.8347	1111.6	1195.5	1.5647
360	3.8446	1116.7	1202.1	1.6023	3.2584	1113.4	1197.8	1.5811				
400	4.0799	1134.0	1224.6	1.6292	3.4676	1131.5	1221.4	1.6092	3.0076	1129.0	1218.0	1.5914
450	4.3613	1154.5	1251.4	1.6594	3.7147	1152.6	1248.9	1.6403	3.2293	1150.7	1246.3	1.6234
500	4.6340	1174.4	1277.3	1.6872	3.9525	1172.9	1275.3	1.6686	3.4412	1171.4	1273.2	1.6522
550	4.9010	1193.9	1302.8	1.7131	4.1845	1192.7	1301.1	1.6948	3.6469	1191.4	1299.4	1.6788
600	5.1642	1213.4	1328.0	1.7375	4.4124	1212.3	1326.6	1.7195	3.8484	1211.3	1325.2	1.7037
700	5.6829	1252.2	1378.4	1.7829	4.8604	1251.4	1377.3	1.7652	4.2434	1250.6	1376.3	1.7498
800	6.1950	1291.4	1429.0	1.8247	5.3017	1290.8	1428.1	1.8072	4.6316	1290.2	1427.3	1.7920
1000	7.2083	1371.7	1531.8	1.9005	6.1732	1371.3	1531.3	1.8832	5.3968	1370.9	1530.7	1.8682
1200	8.2137	1455.3	1637.7	1.9684	7.0367	1455.0	1637.3	1.9512	6.1540	1454.7	1636.9	1.9363
1400	9.2149	1542.3	1746.9	2.0305	7.8961	1542.1	1746.6	2.0134	6.9070	1541.8	1746.3	1.9986
1600	10.2135	1633.0	1859.8	2.0881	8.7529	1632.8	1859.5	2.0711	7.6574	1632.6	1859.3	2.0563
1800	11.2106	1727.2	1976.1	2.1420	9.6082	1727.0	1975.9	2.1250	8.4063	1726.9	1975.7	2.1002
2000	12.2067	1824.8	2095.8	2.1928	10.4624	1824.6	2095.7	2.1758	9.1542	1824.5	2095.5	2.1610
P = 180 psia (373.07°F) P = 200 psia (381.80°F) P = 225 psia (391.80°F)												
Sat.	2.5322	1113.0	1197.3	1.5548	2.2882	1114.1	1198.8	1.5460	2.0423	1115.3	1200.3	1.5360
400	2.6490	1126.3	1214.5	1.5752	2.3615	1123.5	1210.9	1.5602	2.0728	1119.7	1206.0	1.5427
450	2.8514	1148.7	1243.7	1.6082	2.5488	1146.7	1241.0	1.5943	2.2457	1144.1	1237.6	1.5783
500	3.0433	1169.8	1271.2	1.6376	2.7247	1168.2	1269.0	1.6243	2.4059	1166.2	1266.3	1.6091
550	3.2286	1190.2	1297.7	1.6646	2.8939	1188.9	1296.0	1.6516	2.5590	1187.2	1293.8	1.6370
600	3.4097	1210.2	1323.8	1.6897	3.0586	1209.1	1322.3	1.6771	2.7075	1207.7	1320.5	1.6628
700	3.7635	1249.8	1375.2	1.7361	3.3796	1249.0	1374.1	1.7238	2.9956	1248.0	1372.7	1.7099
800	4.1104	1289.5	1426.5	1.7785	3.6934	1288.9	1425.6	1.7664	3.2765	1288.1	1424.5	1.7528
900	4.4531	1329.7	1478.0	1.8179	4.0031	1329.2	1477.3	1.8059	3.5530	1328.5	1476.5	1.7925
1000	4.7929	1370.5	1530.1	1.8549	4.3099	1370.1	1529.6	1.8430	3.8268	1369.5	1528.9	1.8296
1200	5.4674	1454.3	1636.5	1.9231	4.9182	1454.0	1636.1	1.9113	4.3689	1453.6	1635.6	1.8981
1400	6.1377	1541.6	1746.0	1.9855	5.5222	1541.4	1745.7	1.9737	4.9068	1541.1	1745.4	1.9606
1600	6.8054	1632.4	1859.1	2.0432	6.1238	1632.2	1858.8	2.0315	5.4429	1632.0	1858.6	2.0184
1800	7.4716	1726.7	1975.6	2.0971	6.7238	1726.5	1975.4	2.0855	5.9760	1726.4	1975.2	2.0724
2000	8.1367	1824.4	2095.4	2.1479	7.3227	1824.3	2095.3	2.1363	6.5087	1824.1	2095.1	2.1232

Superheated water (Continued) **English unit**

T °F	P = 250 psia (400.97°F)				P = 275 psia (409.45°F)				P = 300 psia (417.35°F)			
	v ft³/lbm	u Btu/lbm	h Btu/lbm	s Btu/lbm · R	v ft³/lbm	u Btu/lbm	h Btu/lbm	s Btu/lbm · R	v ft³/lbm	u Btu/lbm	h Btu/lbm	s Btu/lbm · R
Sat.	1.8440	1116.3	1201.6	1.5270	1.6806	1117.0	1202.6	1.5187	1.5435	1117.7	1203.3	1.5111
450	2.0027	1141.3	1234.0	1.5636	1.8034	1138.5	1230.3	1.5499	1.6369	1135.6	1226.4	1.5369
500	2.1506	1164.1	1263.6	1.5953	1.9415	1162.0	1260.8	1.5825	1.7670	1159.8	1257.9	1.5706
550	2.2910	1185.6	1291.5	1.6237	2.0715	1183.9	1289.3	1.6115	1.8885	1182		