

Table 2. Saturation (Pressure)

p , MPa	t , °C	Density, kg/m ³		Enthalpy, kJ/kg			Entropy, kJ/(kg·K)			Volume, cm ³ /g	
		ρ_L	ρ_V	h_L	h_V	Δh	s_L	s_V	Δs	v_L	v_V
611.657 Pa	0.01	999.79	0.004 855	0.00	2500.9	2500.9	0.000 00	9.1555	9.1555	1.000 21	205 991.
0.0007	1.881	999.89	0.005 518	7.89	2504.3	2496.5	0.028 78	9.1058	9.0770	1.000 11	181 217.
0.0008	3.761	999.92	0.006 264	15.81	2507.8	2492.0	0.057 48	9.0567	8.9992	1.000 08	159 640.
0.0009	5.444	999.91	0.007 005	22.89	2510.9	2488.0	0.082 97	9.0135	8.9305	1.000 09	142 757.
0.0010	6.970	999.86	0.007 741	29.30	2513.7	2484.4	0.105 91	8.9749	8.8690	1.000 14	129 178.
0.0012	9.654	999.68	0.009 202	40.57	2518.6	2478.0	0.145 95	8.9082	8.7623	1.000 32	108 670.
0.0014	11.969	999.46	0.010 650	50.28	2522.8	2472.5	0.180 15	8.8521	8.6719	1.000 54	93 899.
0.0016	14.010	999.20	0.012 086	58.83	2526.5	2467.7	0.210 04	8.8035	8.5935	1.000 80	82 743.
0.0018	15.837	998.93	0.013 511	66.49	2529.9	2463.4	0.236 62	8.7608	8.5241	1.001 08	74 011.
0.0020	17.495	998.64	0.014 928	73.43	2532.9	2459.4	0.260 56	8.7226	8.4620	1.001 36	66 987.
0.0024	20.414	998.08	0.017 738	85.65	2538.2	2452.5	0.302 39	8.6567	8.3544	1.001 93	56 375.
0.0028	22.935	997.51	0.020 522	96.19	2542.8	2446.6	0.338 16	8.6012	8.2631	1.002 49	48 729.
0.0032	25.158	996.96	0.023 282	105.49	2546.8	2441.3	0.369 45	8.5533	8.1838	1.003 05	42 952.
0.0036	27.152	996.43	0.026 021	113.83	2550.4	2436.6	0.397 29	8.5110	8.1138	1.003 58	38 430.
0.0040	28.960	995.92	0.028 743	121.39	2553.7	2432.3	0.422 39	8.4734	8.0510	1.004 10	34 791.
0.0045	31.012	995.30	0.032 122	129.96	2557.4	2427.4	0.450 69	8.4313	7.9806	1.004 73	31 131.
0.0050	32.874	994.70	0.035 480	137.75	2560.7	2423.0	0.476 20	8.3938	7.9176	1.005 33	28 185.
0.0055	34.581	994.13	0.038 816	144.88	2563.8	2418.9	0.499 45	8.3599	7.8605	1.005 90	25 762.
0.0060	36.159	993.59	0.042 135	151.48	2566.6	2415.2	0.520 82	8.3290	7.8082	1.006 45	23 733.
0.0065	37.627	993.06	0.045 436	157.61	2569.3	2411.6	0.540 60	8.3007	7.7601	1.006 99	22 009.
0.0070	39.000	992.55	0.048 722	163.35	2571.7	2408.4	0.559 03	8.2745	7.7154	1.007 50	20 524.
0.0075	40.290	992.06	0.051 994	168.75	2574.0	2405.3	0.576 27	8.2501	7.6738	1.008 00	19 233.
0.0080	41.509	991.59	0.055 252	173.84	2576.2	2402.4	0.592 49	8.2273	7.6348	1.008 48	18 099.
0.0085	42.663	991.13	0.058 498	178.67	2578.3	2399.6	0.607 80	8.2060	7.5982	1.008 95	17 095.
0.0090	43.761	990.69	0.061 731	183.25	2580.2	2397.0	0.622 30	8.1858	7.5635	1.009 40	16 199.
0.0095	44.807	990.25	0.064 954	187.63	2582.1	2394.5	0.636 07	8.1668	7.5308	1.009 84	15 396.
0.010	45.806	989.83	0.068 166	191.81	2583.9	2392.1	0.649 20	8.1488	7.4996	1.010 27	14 670.
0.011	47.683	989.03	0.074 560	199.65	2587.2	2387.5	0.673 72	8.1154	7.4417	1.011 10	13 412.
0.012	49.419	988.26	0.080 917	206.91	2590.3	2383.4	0.696 28	8.0849	7.3887	1.011 88	12 358.
0.013	51.034	987.53	0.087 242	213.67	2593.1	2379.4	0.717 17	8.0570	7.3398	1.012 63	11 462.
0.014	52.547	986.82	0.093 535	219.99	2595.8	2375.8	0.736 64	8.0311	7.2945	1.013 35	10 691.
0.016	55.313	985.50	0.106 04	231.57	2600.6	2369.1	0.772 01	7.9846	7.2126	1.014 71	9430.6
0.018	57.798	984.28	0.118 44	241.96	2605.0	2363.0	0.803 55	7.9437	7.1402	1.015 97	8443.1
0.020	60.058	983.13	0.130 75	251.42	2608.9	2357.5	0.832 02	7.9072	7.0752	1.017 16	7648.0
0.024	64.053	981.03	0.155 15	268.15	2615.9	2347.7	0.881 91	7.8442	6.9623	1.019 34	6445.3
0.028	67.518	979.13	0.179 28	282.66	2621.8	2339.2	0.924 72	7.7912	6.8664	1.021 31	5577.8
0.032	70.586	977.40	0.203 19	295.52	2627.1	2331.6	0.962 28	7.7453	6.7830	1.023 12	4921.5
0.036	73.345	975.80	0.226 90	307.09	2631.8	2324.7	0.995 79	7.7050	6.7092	1.024 80	4407.2
0.040	75.857	974.30	0.250 44	317.62	2636.1	2318.4	1.0261	7.6690	6.6429	1.026 38	3993.0
0.045	78.715	972.56	0.279 65	329.62	2640.9	2311.2	1.0603	7.6288	6.5686	1.028 21	3575.9
0.050	81.317	970.94	0.308 64	340.54	2645.2	2304.7	1.0912	7.5930	6.5018	1.029 93	3240.0
0.055	83.709	969.42	0.337 44	350.59	2649.2	2298.6	1.1194	7.5606	6.4412	1.031 54	2963.5
0.060	85.926	967.99	0.366 07	359.91	2652.9	2292.9	1.1454	7.5311	6.3857	1.033 07	2731.7
0.065	87.993	966.63	0.394 54	368.60	2656.3	2287.7	1.1696	7.5040	6.3345	1.034 52	2534.6
0.070	89.932	965.34	0.422 87	376.75	2659.4	2282.7	1.1921	7.4790	6.2869	1.035 90	2364.8
0.075	91.758	964.11	0.451 07	384.44	2662.4	2277.9	1.2132	7.4557	6.2425	1.037 23	2217.0
0.080	93.486	962.93	0.479 14	391.71	2665.2	2273.5	1.2330	7.4339	6.2009	1.038 50	2087.1
0.085	95.125	961.79	0.507 09	398.62	2667.8	2269.2	1.2518	7.4135	6.1617	1.039 72	1972.0
0.090	96.687	960.70	0.534 94	405.20	2670.3	2265.1	1.2696	7.3943	6.1246	1.040 91	1869.4
0.095	98.178	959.65	0.562 69	411.48	2672.7	2261.2	1.2866	7.3761	6.0895	1.042 05	1777.2
0.10	99.606	958.63	0.590 34	417.50	2674.9	2257.4	1.3028	7.3588	6.0561	1.043 15	1693.9
0.11	102.292	956.69	0.645 39	428.84	2679.2	2250.3	1.3330	7.3269	5.9938	1.045 27	1549.5
0.12	104.784	954.86	0.700 10	439.36	2683.1	2243.7	1.3609	7.2977	5.9367	1.047 27	1428.4
0.13	107.109	953.13	0.754 53	449.19	2686.6	2237.5	1.3868	7.2709	5.8840	1.049 17	1325.3
0.14	109.292	951.49	0.808 69	458.42	2690.0	2231.6	1.4110	7.2461	5.8351	1.050 99	1236.6

Table 2. Saturation (Pressure) (continued)

p , MPa	t , °C	Density, kg/m ³		Enthalpy, kJ/kg			Entropy, kJ/(kg·K)			Volume, cm ³ /g	
		ρ_L	ρ_V	h_L	h_V	Δh	s_L	s_V	Δs	v_L	v_V
0.15	111.349	949.92	0.862 60	467.13	2693.1	2226.0	1.4337	7.2230	5.7893	1.052 73	1159.3
0.16	113.297	948.41	0.916 29	475.38	2696.0	2220.7	1.4551	7.2014	5.7463	1.054 40	1091.4
0.17	115.148	946.97	0.969 76	483.22	2698.8	2215.6	1.4753	7.1812	5.7059	1.056 00	1031.2
0.18	116.911	945.57	1.0230	490.70	2701.4	2210.7	1.4945	7.1621	5.6676	1.057 56	977.47
0.19	118.596	944.23	1.0761	497.85	2703.9	2206.0	1.5127	7.1440	5.6313	1.059 06	929.24
0.20	120.210	942.94	1.1291	504.70	2706.2	2201.5	1.5302	7.1269	5.5967	1.060 52	885.68
0.21	121.759	941.68	1.1818	511.29	2708.5	2197.2	1.5469	7.1106	5.5638	1.061 93	846.14
0.22	123.250	940.47	1.2345	517.63	2710.6	2193.0	1.5628	7.0951	5.5323	1.063 30	810.07
0.23	124.686	939.28	1.2869	523.74	2712.7	2188.9	1.5782	7.0803	5.5021	1.064 64	777.04
0.24	126.072	938.13	1.3393	529.64	2714.6	2185.0	1.5930	7.0661	5.4731	1.065 94	746.68
0.25	127.411	937.02	1.3915	535.34	2716.5	2181.1	1.6072	7.0524	5.4452	1.067 22	718.66
0.26	128.708	935.93	1.4436	540.87	2718.3	2177.4	1.6210	7.0394	5.4184	1.068 46	692.73
0.27	129.965	934.86	1.4955	546.24	2720.0	2173.8	1.6343	7.0268	5.3925	1.069 68	668.65
0.28	131.185	933.83	1.5474	551.44	2721.7	2170.3	1.6471	7.0146	5.3675	1.070 86	646.24
0.29	132.370	932.81	1.5992	556.50	2723.3	2166.8	1.6596	7.0029	5.3433	1.072 03	625.33
0.30	133.522	931.82	1.6508	561.43	2724.9	2163.5	1.6717	6.9916	5.3199	1.073 17	605.76
0.31	134.644	930.85	1.7024	566.22	2726.4	2160.2	1.6835	6.9807	5.2972	1.074 29	587.41
0.32	135.737	929.90	1.7539	570.90	2727.8	2157.0	1.6949	6.9701	5.2752	1.075 39	570.17
0.33	136.802	928.96	1.8052	575.46	2729.3	2153.8	1.7060	6.9598	5.2538	1.076 47	553.95
0.34	137.842	928.05	1.8565	579.91	2730.6	2150.7	1.7168	6.9498	5.2330	1.077 53	538.64
0.35	138.857	927.15	1.9077	584.26	2732.0	2147.7	1.7274	6.9401	5.2128	1.078 57	524.18
0.36	139.849	926.27	1.9589	588.52	2733.2	2144.7	1.7377	6.9307	5.1931	1.079 60	510.50
0.37	140.819	925.40	2.0099	592.68	2734.5	2141.8	1.7477	6.9216	5.1739	1.080 61	497.53
0.38	141.769	924.55	2.0609	596.75	2735.7	2139.0	1.7575	6.9126	5.1551	1.081 61	485.22
0.39	142.698	923.71	2.1119	600.74	2736.9	2136.2	1.7671	6.9040	5.1369	1.082 59	473.52
0.40	143.608	922.89	2.1627	604.65	2738.1	2133.4	1.7765	6.8955	5.1190	1.083 55	462.38
0.42	145.375	921.28	2.2642	612.25	2740.3	2128.0	1.7946	6.8791	5.0846	1.085 44	441.65
0.44	147.076	919.72	2.3655	619.58	2742.4	2122.8	1.8120	6.8636	5.0516	1.087 29	422.74
0.46	148.716	918.20	2.4666	626.64	2744.4	2117.7	1.8287	6.8487	5.0199	1.089 08	405.42
0.48	150.300	916.73	2.5674	633.47	2746.3	2112.8	1.8448	6.8344	4.9895	1.090 84	389.50
0.50	151.831	915.29	2.6680	640.09	2748.1	2108.0	1.8604	6.8207	4.9603	1.092 55	374.81
0.52	153.314	913.89	2.7685	646.50	2749.9	2103.4	1.8754	6.8075	4.9321	1.094 23	361.20
0.54	154.753	912.52	2.8688	652.72	2751.5	2098.8	1.8899	6.7948	4.9049	1.095 87	348.58
0.56	156.149	911.18	2.9689	658.77	2753.1	2094.4	1.9040	6.7825	4.8786	1.097 48	336.82
0.58	157.506	909.87	3.0689	664.65	2754.7	2090.0	1.9176	6.7707	4.8531	1.099 05	325.85
0.60	158.826	908.59	3.1687	670.38	2756.1	2085.8	1.9308	6.7592	4.8284	1.100 60	315.58
0.62	160.112	907.34	3.2684	675.96	2757.6	2081.6	1.9437	6.7482	4.8045	1.102 12	305.96
0.64	161.365	906.11	3.3680	681.41	2758.9	2077.5	1.9562	6.7374	4.7813	1.103 62	296.91
0.66	162.587	904.91	3.4675	686.73	2760.3	2073.5	1.9684	6.7270	4.7587	1.105 09	288.40
0.68	163.781	903.72	3.5668	691.92	2761.5	2069.6	1.9802	6.7169	4.7367	1.106 54	280.36
0.70	164.946	902.56	3.6660	697.00	2762.8	2065.8	1.9918	6.7071	4.7153	1.107 96	272.77
0.72	166.086	901.42	3.7652	701.97	2763.9	2062.0	2.0031	6.6975	4.6944	1.109 36	265.59
0.74	167.200	900.30	3.8642	706.84	2765.1	2058.2	2.0141	6.6882	4.6741	1.110 75	258.79
0.76	168.291	899.19	3.9631	711.61	2766.2	2054.6	2.0248	6.6791	4.6543	1.112 11	252.33
0.78	169.360	898.10	4.0620	716.28	2767.3	2051.0	2.0354	6.6703	4.6349	1.113 46	246.18
0.80	170.406	897.04	4.1608	720.86	2768.3	2047.4	2.0457	6.6616	4.6160	1.114 78	240.34
0.82	171.433	895.98	4.2595	725.36	2769.3	2043.9	2.0557	6.6532	4.5975	1.116 09	234.77
0.84	172.440	894.94	4.3581	729.78	2770.3	2040.5	2.0656	6.6449	4.5793	1.117 39	229.46
0.86	173.428	893.92	4.4567	734.11	2771.2	2037.1	2.0753	6.6369	4.5616	1.118 67	224.38
0.88	174.398	892.91	4.5552	738.37	2772.1	2033.8	2.0847	6.6290	4.5443	1.119 93	219.53
0.90	175.350	891.92	4.6536	742.56	2773.0	2030.5	2.0940	6.6213	4.5272	1.121 18	214.89
0.92	176.287	890.93	4.7520	746.68	2773.9	2027.2	2.1032	6.6137	4.5106	1.122 42	210.44
0.94	177.207	889.96	4.8503	750.73	2774.7	2024.0	2.1121	6.6063	4.4942	1.123 64	206.17
0.96	178.112	889.01	4.9486	754.72	2775.5	2020.8	2.1209	6.5991	4.4782	1.124 85	202.08
0.98	179.002	888.06	5.0468	758.65	2776.3	2017.7	2.1296	6.5920	4.4624	1.126 05	198.14

Table 2. Saturation (Pressure) (continued)

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		ρ_L	ρ_V	h_L	h_V	Δh	s_L	s_V	Δs	v_L	v_V
1.00	179.878	887.13	5.1450	762.52	2777.1	2014.6	2.1381	6.5850	4.4470	1.127 23	194.36
1.05	182.009	884.84	5.3903	771.94	2778.9	2007.0	2.1587	6.5681	4.4095	1.130 14	185.52
1.10	184.062	882.62	5.6354	781.03	2780.6	1999.6	2.1785	6.5520	4.3735	1.132 99	177.45
1.15	186.043	880.46	5.8804	789.82	2782.2	1992.4	2.1976	6.5365	4.3390	1.135 77	170.06
1.20	187.957	878.35	6.1251	798.33	2783.7	1985.4	2.2159	6.5217	4.3058	1.138 50	163.26
1.25	189.809	876.29	6.3698	806.58	2785.1	1978.6	2.2337	6.5074	4.2737	1.141 18	156.99
1.30	191.605	874.28	6.6144	814.60	2786.5	1971.9	2.2508	6.4936	4.2428	1.143 80	151.19
1.35	193.347	872.31	6.8589	822.39	2787.7	1965.3	2.2674	6.4803	4.2129	1.146 38	145.80
1.40	195.039	870.39	7.1034	829.97	2788.8	1958.9	2.2835	6.4675	4.1839	1.148 92	140.78
1.45	196.685	868.50	7.3479	837.35	2789.9	1952.6	2.2992	6.4550	4.1559	1.151 41	136.09
1.50	198.287	866.65	7.5924	844.56	2791.0	1946.4	2.3143	6.4430	4.1286	1.153 87	131.71
1.55	199.848	864.84	7.8369	851.59	2791.9	1940.3	2.3291	6.4313	4.1022	1.156 29	127.60
1.60	201.370	863.05	8.0815	858.46	2792.8	1934.4	2.3435	6.4199	4.0765	1.158 68	123.74
1.65	202.856	861.30	8.3261	865.17	2793.7	1928.5	2.3575	6.4089	4.0514	1.161 03	120.10
1.70	204.307	859.58	8.5708	871.74	2794.5	1922.7	2.3711	6.3981	4.0270	1.163 36	116.67
1.75	205.725	857.89	8.8156	878.17	2795.2	1917.0	2.3845	6.3877	4.0032	1.165 65	113.43
1.80	207.112	856.22	9.0606	884.47	2795.9	1911.4	2.3975	6.3775	3.9800	1.167 92	110.37
1.85	208.469	854.58	9.3056	890.65	2796.6	1905.9	2.4102	6.3675	3.9573	1.170 16	107.46
1.90	209.798	852.96	9.5508	896.71	2797.2	1900.5	2.4227	6.3578	3.9351	1.172 38	104.70
1.95	211.101	851.37	9.7962	902.66	2797.8	1895.1	2.4348	6.3483	3.9135	1.174 58	102.08
2.0	212.377	849.80	10.042	908.50	2798.3	1889.8	2.4468	6.3390	3.8923	1.176 75	99.585
2.1	214.858	846.72	10.533	919.87	2799.3	1879.4	2.4699	6.3210	3.8511	1.181 03	94.938
2.2	217.249	843.72	11.026	930.87	2800.1	1869.2	2.4921	6.3038	3.8116	1.185 23	90.698
2.3	219.557	840.79	11.519	941.53	2800.8	1859.3	2.5136	6.2872	3.7736	1.189 36	86.815
2.4	221.789	837.92	12.013	951.87	2801.4	1849.6	2.5343	6.2712	3.7369	1.193 43	83.244
2.5	223.950	835.12	12.508	961.91	2801.9	1840.0	2.5543	6.2558	3.7015	1.197 43	79.949
2.6	226.046	832.37	13.004	971.67	2802.3	1830.7	2.5736	6.2409	3.6672	1.201 38	76.899
2.7	228.080	829.68	13.501	981.18	2802.7	1821.5	2.5924	6.2264	3.6340	1.205 28	74.066
2.8	230.057	827.04	14.000	990.46	2802.9	1812.4	2.6106	6.2124	3.6018	1.209 13	71.429
2.9	231.980	824.45	14.500	999.51	2803.1	1803.6	2.6283	6.1988	3.5705	1.212 93	68.968
3.0	233.853	821.90	15.001	1008.3	2803.2	1794.8	2.6455	6.1856	3.5400	1.216 69	66.664
3.1	235.679	819.39	15.503	1017.0	2803.2	1786.2	2.6623	6.1727	3.5104	1.220 42	64.504
3.2	237.459	816.92	16.006	1025.4	2803.1	1777.7	2.6787	6.1602	3.4815	1.224 10	62.475
3.3	239.198	814.49	16.512	1033.7	2803.0	1769.3	2.6946	6.1479	3.4533	1.227 76	60.564
3.4	240.897	812.10	17.018	1041.8	2802.9	1761.0	2.7102	6.1360	3.4258	1.231 38	58.761
3.5	242.557	809.74	17.526	1049.8	2802.6	1752.8	2.7254	6.1243	3.3989	1.234 97	57.058
3.6	244.182	807.41	18.036	1057.6	2802.4	1744.8	2.7403	6.1129	3.3726	1.238 54	55.446
3.7	245.772	805.10	18.547	1065.3	2802.1	1736.8	2.7549	6.1018	3.3469	1.242 08	53.918
3.8	247.330	802.83	19.059	1072.8	2801.7	1728.9	2.7691	6.0908	3.3217	1.245 59	52.467
3.9	248.857	800.59	19.574	1080.2	2801.3	1721.1	2.7831	6.0801	3.2970	1.249 08	51.089
4.0	250.354	798.37	20.090	1087.5	2800.8	1713.3	2.7968	6.0696	3.2728	1.252 56	49.776
4.1	251.823	796.17	20.608	1094.7	2800.3	1705.7	2.8102	6.0592	3.2491	1.256 01	48.525
4.2	253.264	794.00	21.127	1101.7	2799.8	1698.1	2.8234	6.0491	3.2257	1.259 44	47.332
4.3	254.680	791.85	21.649	1108.7	2799.2	1690.6	2.8363	6.0391	3.2028	1.262 86	46.192
4.4	256.070	789.73	22.172	1115.5	2798.6	1683.1	2.8490	6.0293	3.1803	1.266 26	45.102
4.5	257.437	787.62	22.697	1122.2	2797.9	1675.7	2.8615	6.0197	3.1582	1.269 65	44.059
4.6	258.780	785.53	23.224	1128.9	2797.3	1668.4	2.8738	6.0102	3.1364	1.273 02	43.059
4.7	260.101	783.47	23.753	1135.5	2796.5	1661.1	2.8859	6.0009	3.1150	1.276 38	42.100
4.8	261.402	781.42	24.284	1141.9	2795.8	1653.9	2.8978	5.9917	3.0939	1.279 73	41.180
4.9	262.681	779.38	24.816	1148.3	2795.0	1646.7	2.9095	5.9826	3.0731	1.283 06	40.296
5.0	263.941	777.37	25.351	1154.6	2794.2	1639.6	2.9210	5.9737	3.0527	1.286 39	39.446
5.1	265.181	775.37	25.888	1160.9	2793.4	1632.5	2.9323	5.9648	3.0325	1.289 71	38.628
5.2	266.403	773.39	26.427	1167.0	2792.5	1625.5	2.9435	5.9561	3.0126	1.293 02	37.840
5.3	267.608	771.42	26.968	1173.1	2791.6	1618.5	2.9546	5.9475	2.9930	1.296 32	37.081
5.4	268.795	769.46	27.512	1179.1	2790.7	1611.5	2.9654	5.9391	2.9736	1.299 61	36.348

Table 2. Saturation (Pressure) (continued)

p , MPa	t , °C	Density, kg/m ³		Enthalpy, kJ/kg			Entropy, kJ/(kg·K)			Volume, cm ³ /g	
		ρ_L	ρ_V	h_L	h_V	Δh	s_L	s_V	Δs	v_L	v_V
5.5	269.965	767.52	28.057	1185.1	2789.7	1604.6	2.9762	5.9307	2.9545	1.302 90	35.642
5.6	271.120	765.59	28.605	1191.0	2788.7	1597.8	2.9868	5.9224	2.9356	1.306 18	34.959
5.7	272.258	763.67	29.155	1196.8	2787.7	1590.9	2.9972	5.9142	2.9170	1.309 46	34.300
5.8	273.382	761.77	29.707	1202.6	2786.7	1584.1	3.0075	5.9061	2.8985	1.312 73	33.662
5.9	274.490	759.88	30.262	1208.3	2785.7	1577.4	3.0177	5.8981	2.8803	1.316 00	33.045
6.0	275.585	758.00	30.818	1213.9	2784.6	1570.7	3.0278	5.8901	2.8623	1.319 26	32.448
6.1	276.666	756.13	31.378	1219.5	2783.5	1564.0	3.0377	5.8823	2.8445	1.322 53	31.870
6.2	277.733	754.27	31.940	1225.1	2782.4	1557.3	3.0476	5.8745	2.8269	1.325 79	31.309
6.3	278.787	752.42	32.504	1230.5	2781.2	1550.7	3.0573	5.8668	2.8095	1.329 05	30.766
6.4	279.829	750.58	33.070	1236.0	2780.1	1544.1	3.0669	5.8592	2.7923	1.332 30	30.238
6.5	280.858	748.75	33.640	1241.4	2778.9	1537.5	3.0764	5.8516	2.7752	1.335 56	29.727
6.6	281.875	746.93	34.211	1246.7	2777.7	1530.9	3.0858	5.8441	2.7583	1.338 82	29.230
6.7	282.880	745.11	34.786	1252.0	2776.4	1524.4	3.0951	5.8367	2.7416	1.342 08	28.747
6.8	283.874	743.31	35.363	1257.3	2775.2	1517.9	3.1043	5.8293	2.7250	1.345 33	28.278
6.9	284.857	741.51	35.943	1262.5	2773.9	1511.4	3.1134	5.8220	2.7086	1.348 59	27.822
7.0	285.829	739.72	36.525	1267.7	2772.6	1505.0	3.1224	5.8148	2.6924	1.351 86	27.378
7.1	286.790	737.94	37.110	1272.8	2771.3	1498.5	3.1313	5.8076	2.6762	1.355 12	26.947
7.2	287.741	736.17	37.698	1277.9	2770.0	1492.1	3.1402	5.8004	2.6603	1.358 39	26.526
7.3	288.682	734.40	38.289	1282.9	2768.6	1485.7	3.1489	5.7933	2.6444	1.361 66	26.117
7.4	289.614	732.64	38.883	1287.9	2767.3	1479.3	3.1576	5.7863	2.6287	1.364 93	25.718
7.5	290.535	730.88	39.479	1292.9	2765.9	1473.0	3.1662	5.7793	2.6131	1.368 21	25.330
7.6	291.448	729.14	40.079	1297.9	2764.5	1466.6	3.1747	5.7723	2.5976	1.371 49	24.951
7.7	292.351	727.39	40.681	1302.8	2763.1	1460.3	3.1832	5.7654	2.5823	1.374 77	24.581
7.8	293.245	725.66	41.287	1307.7	2761.6	1454.0	3.1915	5.7586	2.5671	1.378 06	24.221
7.9	294.131	723.92	41.895	1312.5	2760.2	1447.7	3.1998	5.7518	2.5519	1.381 36	23.869
8.0	295.008	722.20	42.507	1317.3	2758.7	1441.4	3.2081	5.7450	2.5369	1.384 67	23.526
8.1	295.876	720.47	43.122	1322.1	2757.2	1435.1	3.2162	5.7383	2.5220	1.387 97	23.190
8.2	296.737	718.76	43.740	1326.8	2755.7	1428.8	3.2243	5.7316	2.5072	1.391 29	22.863
8.3	297.589	717.04	44.361	1331.6	2754.1	1422.6	3.2324	5.7249	2.4925	1.394 61	22.542
8.4	298.434	715.34	44.985	1336.3	2752.6	1416.3	3.2403	5.7183	2.4779	1.397 95	22.229
8.5	299.271	713.63	45.613	1340.9	2751.0	1410.1	3.2483	5.7117	2.4634	1.401 28	21.923
8.6	300.100	711.93	46.244	1345.6	2749.4	1403.9	3.2561	5.7051	2.4490	1.404 63	21.624
8.7	300.922	710.23	46.879	1350.2	2747.8	1397.7	3.2639	5.6986	2.4347	1.407 99	21.332
8.8	301.737	708.54	47.517	1354.8	2746.2	1391.5	3.2717	5.6921	2.4204	1.411 35	21.045
8.9	302.544	706.85	48.159	1359.3	2744.6	1385.3	3.2793	5.6856	2.4062	1.414 73	20.765
9.0	303.345	705.16	48.804	1363.9	2742.9	1379.1	3.2870	5.6791	2.3922	1.418 11	20.490
9.1	304.139	703.48	49.453	1368.4	2741.3	1372.9	3.2946	5.6727	2.3782	1.421 51	20.221
9.2	304.926	701.80	50.105	1372.9	2739.6	1366.7	3.3021	5.6663	2.3642	1.424 91	19.958
9.3	305.707	700.12	50.761	1377.4	2737.9	1360.5	3.3096	5.6599	2.3504	1.428 33	19.700
9.4	306.481	698.44	51.421	1381.8	2736.2	1354.4	3.3170	5.6536	2.3366	1.431 76	19.447
9.5	307.249	696.77	52.085	1386.2	2734.4	1348.2	3.3244	5.6473	2.3229	1.435 20	19.199
9.6	308.010	695.09	52.753	1390.6	2732.7	1342.0	3.3317	5.6410	2.3092	1.438 65	18.956
9.7	308.766	693.42	53.424	1395.0	2730.9	1335.9	3.3390	5.6347	2.2957	1.442 12	18.718
9.8	309.516	691.76	54.100	1399.4	2729.1	1329.7	3.3463	5.6284	2.2822	1.445 60	18.484
9.9	310.259	690.09	54.779	1403.7	2727.3	1323.6	3.3535	5.6222	2.2687	1.449 09	18.255
10.0	310.997	688.42	55.463	1408.1	2725.5	1317.4	3.3606	5.6160	2.2553	1.452 59	18.030
10.2	312.456	685.10	56.843	1416.7	2721.8	1305.1	3.3749	5.6035	2.2287	1.459 65	17.592
10.4	313.893	681.77	58.240	1425.2	2718.0	1292.8	3.3889	5.5912	2.2023	1.466 76	17.170
10.6	315.308	678.45	59.655	1433.7	2714.2	1280.5	3.4028	5.5789	2.1761	1.473 94	16.763
10.8	316.703	675.13	61.089	1442.1	2710.3	1268.2	3.4166	5.5667	2.1501	1.481 19	16.370
11.0	318.079	671.81	62.541	1450.4	2706.3	1255.9	3.4303	5.5545	2.1242	1.488 51	15.990
11.2	319.434	668.49	64.012	1458.7	2702.3	1243.6	3.4438	5.5423	2.0985	1.495 90	15.622
11.4	320.771	665.17	65.504	1467.0	2698.2	1231.2	3.4572	5.5302	2.0730	1.503 37	15.266
11.6	322.090	661.85	67.016	1475.2	2694.0	1218.8	3.4705	5.5181	2.0476	1.510 93	14.922
11.8	323.391	658.52	68.550	1483.3	2689.8	1206.4	3.4836	5.5060	2.0224	1.518 57	14.588

Table 2. Saturation (Pressure) (continued)

p , MPa	t , °C	Density, kg/m ³		Enthalpy, kJ/kg			Entropy, kJ/(kg·K)			Volume, cm ³ /g	
		ρ_L	ρ_V	h_L	h_V	Δh	s_L	s_V	Δs	v_L	v_V
12.0	324.675	655.18	70.106	1491.5	2685.4	1194.0	3.4967	5.4939	1.9972	1.526 30	14.264
12.2	325.942	651.84	71.684	1499.5	2681.0	1181.5	3.5097	5.4819	1.9722	1.534 13	13.950
12.4	327.194	648.49	73.287	1507.6	2676.6	1169.0	3.5226	5.4698	1.9472	1.542 05	13.645
12.6	328.429	645.13	74.914	1515.6	2672.0	1156.4	3.5354	5.4577	1.9223	1.550 09	13.349
12.8	329.649	641.75	76.566	1523.6	2667.4	1143.8	3.5481	5.4457	1.8975	1.558 23	13.061
13.0	330.854	638.37	78.245	1531.5	2662.7	1131.2	3.5608	5.4336	1.8728	1.566 49	12.780
13.2	332.044	634.97	79.950	1539.4	2657.9	1118.5	3.5734	5.4215	1.8481	1.574 87	12.508
13.4	333.220	631.56	81.685	1547.3	2653.0	1105.7	3.5859	5.4093	1.8234	1.583 38	12.242
13.6	334.382	628.13	83.448	1555.2	2648.0	1092.8	3.5984	5.3972	1.7988	1.592 02	11.983
13.8	335.531	624.69	85.243	1563.1	2643.0	1079.9	3.6108	5.3850	1.7742	1.600 81	11.731
14.0	336.666	621.22	87.069	1571.0	2637.9	1066.9	3.6232	5.3727	1.7495	1.609 74	11.485
14.2	337.789	617.73	88.928	1578.8	2632.6	1053.8	3.6355	5.3604	1.7249	1.618 83	11.245
14.4	338.899	614.22	90.822	1586.7	2627.3	1040.6	3.6478	5.3481	1.7002	1.628 09	11.011
14.6	339.996	610.68	92.752	1594.5	2621.9	1027.4	3.6601	5.3356	1.6756	1.637 52	10.781
14.8	341.082	607.11	94.720	1602.3	2616.3	1014.0	3.6723	5.3231	1.6508	1.647 14	10.557
15.0	342.155	603.52	96.727	1610.2	2610.7	1000.5	3.6846	5.3106	1.6260	1.656 95	10.338
15.2	343.217	599.89	98.776	1618.1	2605.0	986.9	3.6968	5.2979	1.6011	1.666 97	10.124
15.4	344.268	596.23	100.87	1625.9	2599.1	973.2	3.7090	5.2852	1.5762	1.677 22	9.9140
15.6	345.308	592.52	103.00	1633.8	2593.1	959.3	3.7212	5.2723	1.5511	1.687 70	9.7083
15.8	346.337	588.78	105.19	1641.7	2587.0	945.3	3.7335	5.2594	1.5259	1.698 43	9.5067
16.0	347.355	584.99	107.42	1649.7	2580.8	931.1	3.7457	5.2463	1.5006	1.709 44	9.3088
16.2	348.362	581.15	109.71	1657.7	2574.4	916.8	3.7580	5.2331	1.4750	1.720 73	9.1147
16.4	349.360	577.26	112.06	1665.7	2567.9	902.2	3.7704	5.2197	1.4494	1.732 33	8.9240
16.6	350.347	573.31	114.46	1673.7	2561.3	887.5	3.7827	5.2062	1.4235	1.744 27	8.7366
16.8	351.325	569.29	116.93	1681.9	2554.5	872.6	3.7952	5.1925	1.3974	1.756 57	8.5523
17.0	352.293	565.21	119.46	1690.0	2547.5	857.5	3.8077	5.1787	1.3710	1.769 26	8.3709
17.2	353.251	561.05	122.07	1698.3	2540.4	842.1	3.8203	5.1646	1.3443	1.782 37	8.1923
17.4	354.200	556.81	124.75	1706.6	2533.0	826.5	3.8330	5.1504	1.3174	1.795 93	8.0163
17.6	355.140	552.49	127.51	1715.0	2525.5	810.5	3.8458	5.1359	1.2901	1.810 00	7.8426
17.8	356.071	548.06	130.36	1723.5	2517.8	794.3	3.8587	5.1211	1.2624	1.824 60	7.6712
18.0	356.992	543.54	133.30	1732.1	2509.8	777.7	3.8718	5.1061	1.2342	1.839 80	7.5017
18.2	357.906	538.90	136.35	1740.8	2501.6	760.8	3.8851	5.0907	1.2056	1.855 64	7.3341
18.4	358.810	534.13	139.51	1749.7	2493.2	743.5	3.8985	5.0750	1.1765	1.872 19	7.1681
18.6	359.706	529.24	142.79	1758.7	2484.4	725.8	3.9121	5.0590	1.1468	1.889 51	7.0034
18.8	360.594	524.20	146.20	1767.8	2475.4	707.6	3.9260	5.0425	1.1165	1.907 67	6.8399
19.0	361.473	519.00	149.76	1777.2	2466.0	688.9	3.9401	5.0256	1.0855	1.926 77	6.6773
19.2	362.344	513.64	153.49	1786.7	2456.2	669.6	3.9545	5.0081	1.0536	1.946 89	6.5153
19.4	363.208	508.09	157.39	1796.4	2446.1	649.6	3.9692	4.9901	1.0208	1.968 14	6.3535
19.6	364.063	502.35	161.51	1806.4	2435.4	629.0	3.9843	4.9713	0.9871	1.990 64	6.1915
19.8	364.910	496.39	165.87	1816.7	2424.2	607.5	3.9997	4.9518	0.9521	2.0145	6.0290
20.0	365.749	490.19	170.50	1827.2	2412.3	585.1	4.0156	4.9314	0.9158	2.0400	5.8652
20.2	366.581	483.71	175.45	1838.1	2399.8	561.7	4.0320	4.9100	0.8780	2.0674	5.6996
20.4	367.404	476.90	180.79	1849.5	2386.3	536.9	4.0491	4.8872	0.8381	2.0969	5.5313
20.6	368.220	469.67	186.60	1861.4	2371.9	510.5	4.0670	4.8629	0.7959	2.1291	5.3590
20.8	369.027	461.91	193.00	1874.0	2356.1	482.1	4.0860	4.8367	0.7507	2.1649	5.1814
21.0	369.827	453.41	200.16	1887.6	2338.6	451.0	4.1064	4.8079	0.7015	2.2055	4.9961
21.2	370.619	443.83	208.33	1902.6	2318.9	416.3	4.1291	4.7758	0.6467	2.2531	4.8000
21.4	371.402	432.62	217.96	1919.7	2296.1	376.4	4.1550	4.7390	0.5839	2.3115	4.5880
21.6	372.178	418.75	229.84	1940.4	2268.6	328.2	4.1864	4.6950	0.5086	2.3880	4.3508
21.8	372.946	400.26	245.82	1967.4	2232.9	265.5	4.2274	4.6383	0.4109	2.4983	4.0680
22.0	373.705	369.77	274.16	2011.3	2173.1	161.7	4.2945	4.5446	0.2501	2.7044	3.6475
22.064	373.946	322.00	322.00	2084.3	2084.3	0.	4.4070	4.4070	0.	3.1056	3.1056