TABLE A-4

Saturated water—Temperature table

,	tea water	Specia	fic volume,	ı	Internal e	nergy,		Enthalp	oy,	Entropy,			
			m <sup>3</sup> /kg		kJ/kg			kJ/kg			kJ/kg·K		
	Sat.	Sat.	Sat.	Sat.		Sat.	Sat.		Sat.	Sat.		Sat.	
Temp.,	press.,	liquid,	vapor,	liquid,	Evap.,	vapor,	liquid,	Evap.,	vapor,	liquid,	Evap.,	vapor,	
T °C	P <sub>sat</sub> kPa	$V_f$	Vg	$U_f$	$U_{fg}$	$U_g$	$h_f$	$h_{fg}$	h <sub>g</sub>	$S_f$	$S_{fg}$	Sg	
0.01	0.6117	0.001000	206.00	0.000	2374.9	2374.9	0.001	2500.9	2500.9	0.0000	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		
10 15	1.2281 1.7057	0.001000 0.001001	106.32 77.885	42.020 62.980	2346.6 2332.5	2388.7 2395.5	42.022 62.982	2477.2 2465.4	2519.2 2528.3	0.1511 0.2245		8.8999 8.7803	
20	2.3392	0.001001	57.762	83.913	2318.4	2402.3	83.915	2453.5	2537.4	0.2965		8.6661	
25	3.1698	0.001003	43.340	104.83	2304.3	2409.1	104.83	2441.7	2546.5	0.3672		8.5567	
30	4.2469	0.001003	32.879	125.73	2290.2	2415.9	125.74	2429.8	2555.6	0.4368		8.4520	
35	5.6291	0.001006	25.205	146.63	2276.0	2422.7	146.64	2417.9	2564.6	0.5051		8.3517	
40	7.3851	0.001008	19.515	167.53	2261.9	2429.4	167.53	2406.0	2573.5	0.5724		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		8.0748	
55	15.763	0.001015	9.5639	230.24	2219.1	2449.3	230.26	2369.8	2600.1	0.7680		7.9898	
60 65	19.947 25.043	0.001017 0.001020	7.6670 6.1935	251.16 272.09	2204.7 2190.3	2455.9 2462.4	251.18 272.12	2357.7 2345.4	2608.8 2617.5	0.8313 0.8937		7.9082 7.8296	
70	31.202	0.001020	5.0396	293.04	2175.8	2468.9	293.07	2333.0	2626.1	0.9551		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		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		7.4782	
95	84.609	0.001040	1.9808	398.00	2102.0	2500.1	398.09	2269.6	2667.6	1.2504		7.4151	
100	101.42	0.001043	1.6720	419.06	2087.0	2506.0	419.17	2256.4	2675.6	1.3072		7.3542	
105 110	120.90	0.001047 0.001052	1.4186 1.2094	440.15 461.27	2071.8 2056.4	2511.9 2517.7	440.28	2243.1	2683.4 2691.1	1.3634 1.4188		7.2952	
115	143.38 169.18	0.001052	1.2094	482.42	2036.4	2517.7	461.42 482.59	2229.7 2216.0	2691.1	1.4737		7.2382 7.1829	
120	198.67	0.001060	0.89133	503.60	2025.3	2528.9	503.81	2202.1	2706.0	1.5279		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		6.9773	
140	361.53	0.001080	0.50850	588.77	1960.9	2549.6	589.16	2144.3	2733.5	1.7392		6.9294	
145	415.68	0.001085	0.44600	610.19	1944.2	2554.4	610.64	2129.2	2739.8	1.7908		6.8827	
150	476.16	0.001091	0.39248 0.34648	631.66	1927.4 1910.3	2559.1	632.18	2113.8	2745.9 2751.8	1.8418 1.8924		6.8371 6.7927	
155 160	543.49 618.23	0.001096 0.001102	0.34648	653.19 674.79	1893.0	2563.5 2567.8	653.79 675.47	2098.0 2082.0	2751.8	1.8924		6.7492	
165	700.93	0.001102	0.27244	696.46	1875.4	2571.9	697.24	2065.6	2762.8	1.9923		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		6.5841	
185	1123.5	0.001134	0.17390	783.91	1802.1	2586.0	785.19	1996.2	2781.4	2.1875		6.5447	
190 195	1255.2 1398.8	0.001141 0.001149	0.15636 0.14089	806.00 828.18	1783.0 1763.6	2589.0 2591.7	807.43 829.78	1977.9 1959.0	2785.3 2788.8	2.2355 2.2831	4.2705 4.1847	6.5059 6.4678	
200	1554.9	0.001149	0.14089	850.46	1763.6	2591.7 2594.2	829.78 852.26	1939.0	2792.0	2.2831		6.4302	
		001107	0.12, 21		_,,	_00	502.20	_505.0	_,				

**TABLE A-4**Saturated water—Temperature table (*Concluded*)

		Specific volume, m³/kg Sat. Sat.		In	<i>ternal en</i> kJ/kg	ergy,		Enthalp kJ/kg	- ·	Entropy, kJ/kg·K			
Temp.,	Sat. press., P <sub>sat</sub> kPa	Sat. liquid, v <sub>f</sub>	Sat. vapor, $v_g$	Sat. liquid, <i>u<sub>f</sub></i>	Evap., u <sub>fg</sub>	Sat. vapor, $u_g$	Sat. liquid, <i>h<sub>f</sub></i>	Evap., <i>h<sub>fg</sub></i>	Sat. vapor, $h_g$	Sat. liquid, s <sub>f</sub>	Evap., $s_{fg}$	Sat. vapor, $s_g$	
205 210 215 220 225	1724.3 1907.7 2105.9 2319.6 2549.7	0.001164 0.001173 0.001181 0.001190 0.001199	0.11508 0.10429 0.094680 0.086094 0.078405	872.86 895.38 918.02 940.79 963.70	1723.5 1702.9 1681.9 1660.5 1638.6	2596.4 2598.3 2599.9 2601.3 2602.3	874.87 897.61 920.50 943.55	1920.0 1899.7 1878.8 1857.4 1835.4	2794.8 2797.3 2799.3 2801.0 2802.2	2.3776 2.4245 2.4712 2.5176 2.5639	4.0154 3.9318 3.8489 3.7664	6.3930 6.3563 6.3200	
230 235 240 245 250	2797.1 3062.6 3347.0 3651.2 3976.2	0.001209 0.001219 0.001229 0.001240 0.001252	0.071505 0.065300 0.059707 0.054656 0.050085	986.76 1010.0 1033.4 1056.9 1080.7	1616.1 1593.2 1569.8 1545.7 1521.1	2602.9 2603.2 2603.1 2602.7 2601.8	990.14 1013.7 1037.5 1061.5 1085.7	1812.8 1789.5 1765.5 1740.8 1715.3	2802.9 2803.2 2803.0 2802.2 2801.0	2.6100 2.6560 2.7018 2.7476 2.7933	3.4405 3.3596	6.2128 6.1775 6.1424 6.1072 6.0721	
255 260 265 270 275	4322.9 4692.3 5085.3 5503.0 5946.4	0.001263 0.001276 0.001289 0.001303 0.001317	0.045941 0.042175 0.038748 0.035622 0.032767	1104.7 1128.8 1153.3 1177.9 1202.9	1495.8 1469.9 1443.2 1415.7 1387.4	2600.5 2598.7 2596.5 2593.7 2590.3	1110.1 1134.8 1159.8 1185.1 1210.7	1689.0 1661.8 1633.7 1604.6 1574.5	2799.1 2796.6 2793.5 2789.7 2785.2	2.8390 2.8847 2.9304 2.9762 3.0221	3.0358 2.9542	6.0369 6.0017 5.9662 5.9305 5.8944	
280 285 290 295 300	6416.6 6914.6 7441.8 7999.0 8587.9	0.001333 0.001349 0.001366 0.001384 0.001404	0.030153 0.027756 0.025554 0.023528 0.021659	1228.2 1253.7 1279.7 1306.0 1332.7	1358.2 1328.1 1296.9 1264.5 1230.9	2586.4 2581.8 2576.5 2570.5 2563.6	1236.7 1263.1 1289.8 1317.1 1344.8	1543.2 1510.7 1476.9 1441.6 1404.8	2779.9 2773.7 2766.7 2758.7 2749.6	3.0681 3.1144 3.1608 3.2076 3.2548	2.6225 2.5374	5.8579 5.8210 5.7834 5.7450 5.7059	
305 310 315 320 325	9209.4 9865.0 10,556 11,284 12,051	0.001425 0.001447 0.001472 0.001499 0.001528	0.019932 0.018333 0.016849 0.015470 0.014183	1360.0 1387.7 1416.1 1445.1 1475.0	1195.9 1159.3 1121.1 1080.9 1038.5	2555.8 2547.1 2537.2 2526.0 2513.4	1373.1 1402.0 1431.6 1462.0 1493.4	1366.3 1325.9 1283.4 1238.5 1191.0	2739.4 2727.9 2715.0 2700.6 2684.3	3.3024 3.3506 3.3994 3.4491 3.4998	2.1821 2.0881	5.6657 5.6243 5.5816 5.5372 5.4908	
330 335 340 345 350	12,858 13,707 14,601 15,541 16,529	0.001560 0.001597 0.001638 0.001685 0.001741	0.012979 0.011848 0.010783 0.009772 0.008806	1505.7 1537.5 1570.7 1605.5 1642.4	993.5 945.5 893.8 837.7 775.9	2499.2 2483.0 2464.5 2443.2 2418.3	1525.8 1559.4 1594.6 1631.7 1671.2	1140.3 1086.0 1027.4 963.4 892.7	2666.0 2645.4 2622.0 2595.1 2563.9	3.5516 3.6050 3.6602 3.7179 3.7788	1.7857 1.6756	5.3907	
355 360 365 370 373.95	17,570 18,666 19,822 21,044 22,064	0.001808 0.001895 0.002015 0.002217 0.003106	0.007872 0.006950 0.006009 0.004953 0.003106	1682.2 1726.2 1777.2 1844.5 2015.7	706.4 625.7 526.4 385.6 0	2388.6 2351.9 2303.6 2230.1 2015.7	1714.0 1761.5 1817.2 1891.2 2084.3	812.9 720.1 605.5 443.1 0	2526.9 2481.6 2422.7 2334.3 2084.3	3.8442 3.9165 4.0004 4.1119 4.4070	1.2942 1.1373 0.9489 0.6890 0	4.9493	

Source: Tables A-4 through A-8 are generated using the Engineering Equation Solver (EES) software developed by S. A. Klein and F. L. Alvarado. The routine used in calculations is the highly accurate Steam\_IAPWS, which incorporates the 1995 Formulation for the Thermodynamic Properties of Ordinary Water Substance for General and Scientific Use, issued by The International Association for the Properties of Water and Steam (IAPWS). This formulation replaces the 1984 formulation of Haar, Gallagher, and Kell (NBS/NRC Steam Tables, Hemisphere Publishing Co., 1984), which is also available in EES as the routine STEAM. The new formulation is based on the correlations of Saul and Wagner (J. Phys. Chem. Ref. Data, 16, 893, 1987) with modifications to adjust to the International Temperature Scale of 1990. The modifications are described by Wagner and Pruss (J. Phys. Chem. Ref. Data, 22, 783, 1993). The properties of ice are based on Hyland and Wexler, "Formulations for the Thermodynamic Properties of the Saturated Phases of H<sub>2</sub>O from 173.15 K to 473.15 K," ASHRAE Trans., Part 2A, Paper 2793, 1983.

TABLE A-5

Saturated water—Pressure table

			<i>fic volume,</i> m³/kg		<i>Internal e.</i> kJ/kg			Enthalpy kJ/kg	<i>'</i> ,		Entropy, kJ/kg·K	
Press., P kPa	Sat. temp., $T_{\text{sat}}$ °C	Sat. liquid, $V_f$	Sat. vapor, $v_g$	Sat. liquid, $u_f$	Evap., u <sub>fg</sub>	Sat. vapor, $u_g$	Sat. liquid, $h_f$	Evap., h <sub>fg</sub>	Sat. vapor, $h_g$	Sat. liquid, $s_f$	Evap., s <sub>fg</sub>	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	
1.5	13.02	0.001001	87.964	54.686	2338.1	2392.8	54.688	2470.1	2524.7	0.1956	8.6314	
2.0	17.50	0.001001	66.990	73.431	2325.5	2398.9	73.433	2459.5	2532.9	0.2606	8.4621	
2.5	21.08	0.001002	54.242	88.422	2315.4	2403.8	88.424	2451.0	2539.4	0.3118	8.3302	
3.0	24.08	0.001003	45.654	100.98	2306.9	2407.9	100.98	2443.9	2544.8	0.3543	8.2222	
4.0	28.96	0.001004	34.791	121.39	2293.1	2414.5	121.39	2432.3	2553.7	0.4224	8.0510	8.1488
5.0	32.87	0.001005	28.185	137.75	2282.1	2419.8	137.75	2423.0	2560.7	0.4762	7.9176	
7.5	40.29	0.001008	19.233	168.74	2261.1	2429.8	168.75	2405.3	2574.0	0.5763	7.6738	
10	45.81	0.001010	14.670	191.79	2245.4	2437.2	191.81	2392.1	2583.9	0.6492	7.4996	
15	53.97	0.001014	10.020	225.93	2222.1	2448.0	225.94	2372.3	2598.3	0.7549	7.2522	
20	60.06	0.001017	7.6481	251.40	2204.6	2456.0	251.42	2357.5	2636.1	0.8320	7.0752	7.9073
25	64.96	0.001020	6.2034	271.93	2190.4	2462.4	271.96	2345.5		0.8932	6.9370	7.8302
30	69.09	0.001022	5.2287	289.24	2178.5	2467.7	289.27	2335.3		0.9441	6.8234	7.7675
40	75.86	0.001026	3.9933	317.58	2158.8	2476.3	317.62	2318.4		1.0261	6.6430	7.6691
50	81.32	0.001030	3.2403	340.49	2142.7	2483.2	340.54	2304.7		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

TABLE A-5

Saturated water—Pressure table (Concluded)

		,	o volume, <sup>3</sup> /kg	In	<i>ternal en</i> kJ/kg	ergy,		<i>Enthalpy</i> kJ/kg	; 		Entropy, kJ/kg·K	
Press., P kPa	Sat. temp., $T_{\rm sat}$ °C	Sat. Iiquid, <sub>Vf</sub>	Sat. vapor, v <sub>g</sub>	Sat. Iiquid, <i>u<sub>f</sub></i>	Evap., u <sub>fg</sub>	Sat. vapor, u <sub>g</sub>	Sat. liquid, <i>h<sub>f</sub></i>	Evap., <i>h<sub>fg</sub></i>	Sat. vapor, $h_g$	Sat. liquid, s <sub>f</sub>	Evap., s <sub>fg</sub>	Sat. vapor, $s_g$
800 850 900 950 1000	170.41 172.94 175.35 177.66 179.88	0.001115 0.001118 0.001121 0.001124 0.001127	0.24035 0.22690 0.21489 0.20411 0.19436	731.00 741.55 751.67	1856.1 1846.9 1838.1 1829.6 1821.4	2576.0 2577.9 2579.6 2581.3 2582.8	720.87 731.95 742.56 752.74 762.51	2047.5 2038.8 2030.5 2022.4 2014.6	2775.2	2.0457 2.0705 2.0941 2.1166 2.1381	4.6160 4.5705 4.5273 4.4862 4.4470	6.6616 6.6409 6.6213 6.6027 6.5850
1100 1200 1300 1400 1500	184.06 187.96 191.60 195.04 198.29	0.001133 0.001138 0.001144 0.001149 0.001154	0.17745 0.16326 0.15119 0.14078 0.13171	796.96 813.10 828.35	1805.7 1790.9 1776.8 1763.4 1750.6	2585.5 2587.8 2589.9 2591.8 2593.4	781.03 798.33 814.59 829.96 844.55	1999.6 1985.4 1971.9 1958.9 1946.4	2786.5 2788.9	2.1785 2.2159 2.2508 2.2835 2.3143	4.3735 4.3058 4.2428 4.1840 4.1287	6.5520 6.5217 6.4936 6.4675 6.4430
1750 2000 2250 2500 3000	205.72 212.38 218.41 223.95 233.85	0.001166 0.001177 0.001187 0.001197 0.001217	0.11344 0.099587 0.088717 0.079952 0.066667	906.12 933.54	1720.6 1693.0 1667.3 1643.2 1598.5	2596.7 2599.1 2600.9 2602.1 2603.2	878.16 908.47 936.21 961.87 1008.3	1917.1 1889.8 1864.3 1840.1 1794.9	2798.3 2800.5 2801.9	2.3844 2.4467 2.5029 2.5542 2.6454	4.0033 3.8923 3.7926 3.7016 3.5402	6.3877 6.3390 6.2954 6.2558 6.1856
3500 4000 5000 6000 7000	242.56 250.35 263.94 275.59 285.83	0.001235 0.001252 0.001286 0.001319 0.001352		1045.4 1082.4 1148.1 1205.8 1258.0	1557.6 1519.3 1448.9 1384.1 1323.0	2603.0 2601.7 2597.0 2589.9 2581.0	1087.4 1154.5 1213.8	1753.0 1713.5 1639.7 1570.9 1505.2	2802.7 2800.8 2794.2 2784.6 2772.6	2.7253 2.7966 2.9207 3.0275 3.1220	3.3991 3.2731 3.0530 2.8627 2.6927	6.1244 6.0696 5.9737 5.8902 5.8148
8000 9000 10,000 11,000 12,000	295.01 303.35 311.00 318.08 324.68	0.001384 0.001418 0.001452 0.001488 0.001526	0.023525 0.020489 0.018028 0.015988 0.014264	1433.9	1264.5 1207.6 1151.8 1096.6 1041.3	2570.5 2558.5 2545.2 2530.4 2514.3	1363.7 1407.8 1450.2	1441.6 1379.3 1317.6 1256.1 1194.1	2706.3	3.2077 3.2866 3.3603 3.4299 3.4964	2.5373 2.3925 2.2556 2.1245 1.9975	5.7450 5.6791 5.6159 5.5544 5.4939
13,000 14,000 15,000 16,000 17,000	330.85 336.67 342.16 347.36 352.29	0.001566 0.001610 0.001657 0.001710 0.001770	0.012781 0.011487 0.010341 0.009312 0.008374		985.5 928.7 870.3 809.4 745.1	2496.6 2477.1 2455.7 2432.0 2405.4	1571.0 1610.3 1649.9	1131.3 1067.0 1000.5 931.1 857.4	2581.0	3.5606 3.6232 3.6848 3.7461 3.8082	1.8730 1.7497 1.6261 1.5005 1.3709	5.4336 5.3728 5.3108 5.2466 5.1791
18,000 19,000 20,000 21,000 22,000 22,064	356.99 361.47 365.75 369.83 373.71 373.95	0.001840 0.001926 0.002038 0.002207 0.002703 0.003106	0.007504 0.006677 0.005862 0.004994 0.003644 0.003106	1699.1 1740.3 1785.8 1841.6 1951.7 2015.7	675.9 598.9 509.0 391.9 140.8	2375.0 2339.2 2294.8 2233.5 2092.4 2015.7	1776.8 1826.6 1888.0 2011.1	777.8 689.2 585.5 450.4 161.5	2172.6	3.9396	1.2343 1.0860 0.9164 0.7005 0.2496 0	5.1064 5.0256 4.9310 4.8076 4.5439 4.4070

TABLE A-6

Superh	eated wate	r										
Т	V	И	h	S	V	и	h	S	V	и	h	S
°C	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg·K	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg·K	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg·K
						_						
			°a (45.81°			0.05 MP				0.10 MP		
Sat.†	14.670	2437.2		8.1488	3.2403	2483.2	2645.2	7.5931	1.6941	2505.6	2675.0	7.3589
50	14.867	2443.3	2592.0	8.1741	2 4107	0511.5	0600.4	7.6050	1 6050	0506.0	0675.0	7.0611
100	17.196	2515.5		8.4489	3.4187	2511.5	2682.4	7.6953	1.6959	2506.2	2675.8	
150	19.513	2587.9	2783.0 2879.6	8.6893	3.8897	2585.7	2780.2 2877.8	7.9413	1.9367 2.1724	2582.9 2658.2	2776.6 2875.5	
200 250	21.826 24.136	2661.4 2736.1		8.9049 9.1015	4.3562 4.8206	2660.0 2735.1	2976.2	8.1592 8.3568	2.1724	2733.9	2974.5	
300	26.446	2812.3	3076.7	9.2827	5.2841	2811.6	3075.8	8.5387	2.4002	2810.7	3074.5	
400	31.063	2969.3	3280.0	9.6094	6.2094	2968.9	3279.3	8.8659	3.1027	2968.3	3278.6	
500	35.680	3132.9	3489.7	9.8998	7.1338	3132.6	3489.3	9.1566	3.5655	3132.2	3488.7	
600	40.296	3303.3	3706.3	10.1631	8.0577	3303.1	3706.0	9.4201	4.0279	3302.8	3705.6	
700	44.911	3480.8	3929.9	10.4056	8.9813	3480.6	3929.7	9.6626	4.4900	3480.4	3929.4	
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	11.0429	11.7513	4055.2	4642.7	10.3000	5.8755	4055.0	4642.6	
1100	63.373	4260.0	4893.8	11.2326	12.6745	4259.9		10.4897	6.3372	4259.8		10.1698
1200	67.989	4470.9	5150.8	11.4132	13.5977	4470.8		10.6704	6.7988	4470.7		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 =	0.20 MP	a (120.21	L°C)	<i>P</i> =	0.30 MPa	(133.52	°C)	P =	0.40 MPa	a (143.6)	1°C)
Sat.	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	3 2564.4	2752.8	6.9306
200	1.08049	2654.6	2870.7	7.5081	0.71643	2651.0	2865.9	7.3132		2647.2	2860.9	
250	1.19890	2731.4	2971.2	7.7100	0.79645	2728.9	2967.9	7.5180		2726.4	2964.5	
300	1.31623	2808.8	3072.1	7.8941	0.87535	2807.0	3069.6	7.7037		2805.1	3067.1	7.5677
400	1.54934	2967.2	3277.0	8.2236	1.03155	2966.0	3275.5	8.0347		2964.9	3273.9	
500	1.78142		3487.7	8.5153	1.18672	3130.6	3486.6	8.3271		3129.8	3485.5	
600	2.01302 2.24434	3479.9	3704.8 3928.8	8.7793	1.34139 1.49580	3301.6 3479.5	3704.0	8.5915		3301.0	3703.3	
700 800	2.4454	3664.7	4159.8	9.0221 9.2479	1.49360	3664.3	3928.2 4159.3	8.8345 9.0605		3479.0	3927.6 4158.9	
900	2.70656	3856.3	4397.7	9.4598	1.80417	3856.0	4397.3	9.2725		3855.7	4396.9	
1000	2.70030	4054.8	4642.3	9.6599	1.95824	4054.5	4642.0	9.4726		4054.3	4641.7	
1100	3.16848	4259.6	4893.3	9.8497	2.11226	4259.4	4893.1	9.6624		4259.2	4892.9	
1200	3.39938	4470.5	5150.4	10.0304	2.26624	4470.3	5150.2	9.8431		4470.2	5150.0	
1300	3.63026	4687.1	5413.1	10.2029	2.42019	4686.9		10.0157		4686.7	5412.8	
	P =	0.50 MP	a (151.83	3°C)	P =	0.60 MPa	(158.83	°C)	P =	0.80 MPa	a (170.4)	l°C)
Sat.	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			7.0610	0.35212		2850.6	6.9683		2631.1	2839.8	
250	0.47443			7.2725	0.39390		2957.6	7.1833		2715.9	2950.4	
300	0.52261			7.4614	0.43442		3062.0	7.3740		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	
400	0.61731	2963.7	3272.4	7.7956	0.51374	2962.5	3270.8	7.7097	0.38429	2960.2	3267.7	7.5735
500	0.71095			8.0893	0.59200		3483.4	8.0041		3126.6	3481.3	
600	0.80409			8.3544	0.66976		3701.7			3298.7	3700.1	
700	0.89696			8.5978	0.74725		3926.4			3477.2	3925.3	
800	0.98966			8.8240	0.82457		4157.9	8.7395		3662.5	4157.0	
900	1.08227			9.0362	0.90179		4396.2	8.9518		3854.5	4395.5	
1000	1.17480			9.2364	0.97893		4641.1			4053.3	4640.5	
1100	1.26728			9.4263	1.05603 1.13309		4892.4	9.3420 9.5229		4258.3	4891.9	
1200 1300	1.35972 1.45214			9.6071 9.7797	1.13309		5149.6 5412.5			4469.4	5149.3	9.3898 9.5625
1300	1.40214	4000.0	5412.0	5.1131	1.21012	+000.4	5412.5	9.0900	0.30701	4000.1	5412.2	5.5025

 $<sup>{}^{\</sup>ast}\mathsf{The}$  temperature in parentheses is the saturation temperature at the specified pressure.

 $<sup>^{\</sup>dagger}$  Properties of saturated vapor at the specified pressure.

TABLE A-6

The color of th	INDLL												
P	Superh	neated wat	er ( <i>Concl</i>	uded)		1							
P = 1.00 MPa (179.88°C)	T	V	И	h	S	V	И	h	S	V	И	h	S
P = 1.00 MPa (179.88°C)	°C	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg·K	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg·K	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg·K
Sat         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         0.20502         2622.3         2828.3         6.6956         0.19241         2704.7         2935.6         6.8313         0.16356         2698.9         2927.9         6.7488           300         0.28250         2875.7         3051.6         7.1246         0.12386         2789.7         3046.3         7.0335         0.18233         2785.7         3040.9         6.9581           400         0.30661         2957.9         3264.5         7.4670         0.25482         2955.5         3261.3         7.3793         0.21782         2953.1         3258.1         7.3079         3150.1         7.1379           400         0.40111         3297.5         3698.6         8.0311         0.33395         3296.3         3697.0         7.9456         0.28597         3251.1         3479.7         7.4679         0.2557.6         3729.7         3475.3         3292.9         8.194         0.2851.3         334.4         391.3         3458.1         7.3379         0.2859.3         3295.1         3695.5         7.4670 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></th<>									-				
200   0.20602   262.3   2828.3   6.6996   0.16934   2612.9   2816.1   6.5909   0.14303   260.7   2803.0   6.4975     200   0.25799   2793.7   3051.6   7.1246   0.21386   2789.7   3046.3   7.0335   0.18233   2785.7   3040.9   6.9553     200   200   200   200   2.23455   2872.7   3144.2   7.2139   0.20029   2829.7   3150.1   7.1379     400   0.30661   2957.9   3264.5   7.4670   0.25882   2955.5   3261.3   7.3793   0.21782   2953.1   3258.1   7.3046     500   0.34711   3125.0   3479.1   7.7642   0.22464   3123.4   3477.0   7.6779   0.25216   3121.8   3474.8   7.6047     700   0.44783   3661.7   4156.1   8.0526   0.41184   3661.0   4155.2   8.4176   0.28997   32951   3695.5   7.8730     800   0.49483   3661.7   4156.1   8.0526   0.41184   3661.0   4155.2   8.4176   0.39521   3474.4   3921.7   8.1183     900   0.54083   3853.9   4394.8   8.7150   0.48559   3853.3   3394.0   8.6303   0.38614   3850.7   4393.8   8.7150   0.48559   3853.3   3394.0   8.6303   0.38614   3852.7   4393.3   8.5587     100   0.63354   4257.9   4891.4   9.1057   0.45292   4257.5   4891.0   9.0212   0.45247   4257.0   4890.5   8.4949   4.91087   0.67363   4.685.5   4.646.5   5.416.5   9.2022   0.45247   4257.0   4890.5   8.4949   4.91087   0.46654   4.685.5   4.646.5   5.416.5   9.2022   0.45247   4.527.0   4.890.5   8.4949   4.91087   0.46654   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465   4.685.1   4.6465	0-4	-											
250													
300 0.25799 2793.7 3051.6 7.1246 0.21386 2789.7 3063.5 0.18233 2785.7 3040.9 6.955.3   502 0.28250 2875.7 3158.2 7.3029 0.2355.5 2872.7 3154.2 7.2139 0.20029 2869.7 3150.1 7.1379   400 0.30611 2957.9 3264.5 7.4670 0.25482 2955.3 361.3 7.3793 0.21782 2953.1 3258.1 7.3046   500 0.35411 3227.5 3698.6 8.0311 0.33395 3296.3 3697.0 7.9456   500 0.44783 3476.3 3924.1 8.2755 0.37297 3475.3 3922.9 8.1904   0.34943 3661.7 4156.1 8.5024 0.41184 3661.0 4155.2 8.4176   0.054043 3863.9 4394.8 8.7150 0.45059 3853.3 4394.0 8.6303   0.35871 4052.7 460.0 8.9155 0.48928 4052.2 4639.4 8.8110   0.53354 4257.9 4891.4 9.1057   0.52792 4257.5 4891.0 9.2012   0.45783 4469.0 5148.9 9.286   0.72610 4685.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610 4885.8 5411.9 9.4593   0.72610													
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   0.35411   3125.0   3479.1   7.7642   0.29464   3123.4   3477.0   7.6779   0.25216   3121.8   3474.8   7.6047     500   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   4163.8   8.3589     800   0.58721   4052.7   4640.0   8.9155   0.48928   4052.2   4639.4   8.8310   0.41933   4051.7   4638.8   8.7595     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     1000   0.58354   4257.9   4891.4   9.1075   0.52792   4257.5   4891.9   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   4468.5   5141.9   9.308													
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         0.44783         3476.3         3294.1         8.2755         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           900         0.54083         3853.9         4394.8         8.1500         0.45059         3853.3         4394.0         8.6303         0.38614         3852.7         4393.3         8.5587           100         0.63354         4257.9         4891.4         9.1057         0.52792         £257.5         4891.0         9.0212         0.45247         4257.0         4890.5         8.4991           100         0.63354         4259.2         6.4805         5411.0         9.3750         6.3753         0.11678         2620.2         0.4853         0.1141.3         9.3036           5at         1.129         2.646.8						1				1			
500         0.35411         3125.0         3479.1         7.6779         0.25216         31218.         3474.8         7.6047           600         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         0.44783         3661.7         4156.1         8.5024         0.41184         3661.0         4155.2         8.4176         0.35288         3660.3         4158.2         3434.8         3150         0.48098         385.3         3940.8         8.3010         0.35288         3661.7         4638.8         34588           1000         0.58721         4052.7         4690.0         8.915         0.48098         4652.2         4639.4         8.8310         0.41933         4051.7         4638.8         8.7595           1000         0.67983         4469.0         5141.9         9.2866         0.56652         4468.7         5148.5         9.2022         0.48558         4468.5         5411.9         9.2375           250         0.12374         2594.8         2792.8         6.4253         0.16673         3.1252.2         2687.5         5411.6         9.3750         0.1963 </td <td></td>													
600         0.40111         3297.5         3698.6         8.0311         0.33395         3292.9         8.1904         0.31597         3292.9         8.1904         0.31597         3292.1         38.92.9         8.1904         0.31588         3660.3         4154.3         8.3488           900         0.54083         3853.9         4394.8         8.7150         0.45099         3853.3         4394.0         8.6303         0.38614         3852.7         4393.3         8.5587           100         0.63354         4257.9         4891.4         9.1057         0.52792         4257.5         4891.0         0.90212         0.45247         4257.0         4890.5         8.9899           100         0.63354         4257.9         4891.4         9.1057         0.52792         4257.5         4891.0         0.45247         4257.0         4890.5         8.9497           100         0.63354         4259.8         6.4000         0.60509         4685.5         5411.6         9.3750         0.51866         4685.1         5411.3         9.3036           255         0.13239         2645.1         2857.8         2659.0         1.2228.8         6236.1         6.160.2         266.7         2911.7         6.6088         0.1										1			
No.										1			
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P = 1.60 MPa (201.37°C)         P = 1.80 MPa (207.11°C)         P = 2.00 MPa (212.38°C)           Sat.         0.12374 2594.8         2792.8         6.4200         0.11037         2597.3         2795.9         6.3775         0.09959         2599.1         2798.3         6.3390           255         0.13293 2646.1         2867.8         6.5537         0.11678         2637.0         2847.2         6.4825         0.10381         2628.5         2836.1         6.4160           250         0.114190 2692.9         2919.9         6.6753         0.12502         2686.7         2911.7         6.6088         0.11150         2680.3         2993.3         6.5475           300         0.15866         2781.6         3035.4         6.8864         0.114025         2777.4         3029.9         6.8246         0.12551         2773.2         3024.2         6.7653           300         0.17459 2866.6         3146.0         7.0713         0.15460 2863.6         3141.9         7.0120         0.13680         2860.5         3137.7         6.9583           400         0.22903         329.13         3472.6         7.5410         0.15860         3137.7         6.9583           400         0.23943         3253.5										1			
Sat.         0.12374         2594.8         2792.8         6.4200         0.11037         2597.3         2795.9         6.3775         0.09959         259.1         2798.3         6.3390           255         0.13293         2645.1         2857.8         6.5537         0.11678         2637.0         2847.2         6.4825         0.10381         2628.5         2836.1         6.4160           350         0.15866         2781.6         3035.4         6.8864         0.14025         2777.4         3029.9         6.8246         0.12551         2773.2         3024.2         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         7.1290           00         0.22499         3293.9         3693.9         7.8101         0.22520         3292.7         3692.3         7.7543         0.19561         3118.5         3470.4         7.48455         0.12366         3451.7         3918.2	1000	-											
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500         0.22029         3120.1         3472.6         7.5410         0.19551         3118.5         3470.4         7.4845         0.17568         3116.9         3468.3         7.4337           600         0.24999         3293.9         3693.9         7.8101         0.22200         3292.7         3692.3         7.7543         0.19962         3291.5         3690.7         7.7043           700         0.27941         3473.5         3920.5         8.0558         0.24822         3472.6         391.9         8.4806         0.22326         3471.7         3918.2         7.9509           800         0.33780         3852.1         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         8.7422           1200         0.42488										1			
600         0.24999         3293.9         3693.9         7.8101         0.22200         3292.7         3692.3         7.7543         0.19962         3291.5         3690.7         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         0.3365         3655.5         4153.4         8.2834         0.27426         3658.8         4152.4         8.2284         0.24674         3658.0         4151.5         8.1791           900         0.33780         3852.1         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         0.3488         4266.9         5147.3         9.0694         303898         4467.9         5147.7         9.0899         0.37766         4467.6         5147.3         9.0143         0.33989         4467.2         5147.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						1							
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           1000         0.33680         3852.1         4392.6         8.4965         0.30606         4050.7         4637.6         8.6427         0.29342         4050.2         4631.1         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         5147.0         8.9654           1300         0.45383         4684.8         5410.9         9.2418         0.40341         4684.5         5410.6         9.1872         0.36308         4684.2         5410.3         9.1384           225         0.08026 <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						1							
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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         5147.0         8.9654           1300         0.45383         4684.8         5410.9         9.2418         0.40341         4684.5         5410.6         9.1872         0.36308         4684.2         5410.3         9.1384           250         0.08026         2604.8         2805.5         6.2629         250         0.08705         2663.3         2880.9         6.4107         0.07063         2644.7         2856.5         6.2893         0.05876         2624.0         2829.7         6.1764           300         0.09894         2762.2         3009.6         6.6459         0.0818         2750.8         2994.3         6.5412         0.06845         2738.8						1				1			
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 5147.0 8.9654 1300 0.45383 4684.8 5410.9 9.2418 0.40341 4684.5 5410.6 9.1872 0.36308 4684.2 5410.3 9.1384    P = 2.50 MPa (223.95°C) P = 3.00 MPa (233.85°C) P = 3.50 MPa (242.56°C)    Sat. 0.07995 2602.1 2801.9 6.2558 0.06667 2603.2 2803.2 6.1856 0.05706 2603.0 2802.7 6.1244   225 0.08026 2604.8 2805.5 6.2629   250 0.08705 2663.3 2880.9 6.4107 0.07063 2644.7 2856.5 6.2893 0.05876 2624.0 2829.7 6.1764   300 0.09894 2762.2 3009.6 6.6459 0.08118 2750.8 2994.3 6.5412 0.06845 2738.8 2978.4 6.4484   350 0.10979 2852.5 3127.0 6.8424 0.09056 2844.4 3116.1 6.7450 0.07680 2836.0 3104.9 6.6601   400 0.12012 2939.8 3240.1 7.0170 0.09938 2933.6 3231.7 6.9235 0.08456 2927.2 3223.2 6.8428   450 0.13015 3026.2 3351.6 7.1768 0.10789 3021.2 3344.9 7.0856 0.09198 3016.1 3338.1 7.0074   500 0.13999 3112.8 3462.8 7.3254 0.11620 3108.6 3457.2 7.2359 0.09919 3104.5 3451.7 7.1593   600 0.15931 3288.5 3686.8 7.5979 0.13245 3285.5 3682.8 7.5103 0.11325 3282.5 3678.9 7.4357   700 0.17835 3469.3 3915.2 7.8455 0.14841 3467.0 3912.2 7.7590 0.12702 3464.7 3909.3 7.6855   800 0.19722 3656.2 4149.2 8.0744 0.16420 3654.3 4146.9 7.9885 0.14061 3652.5 4144.6 7.9156   900 0.21597 3849.4 4389.3 8.2882 0.17988 3847.9 4387.5 8.2028 0.15410 3846.4 4385.7 8.1304   1000 0.23466 4049.0 4635.6 8.4897 0.19549 4047.7 4634.2 8.4045 0.16751 4046.4 4632.7 8.3324   1100 0.25330 4254.7 4887.9 8.6804 0.21105 4253.6 4886.7 8.5955 0.18087 4252.5 4885.6 8.5236   1200 0.27190 4466.3 5146.0 8.8618 0.22658 4465.3 5145.1 8.7771 0.19420 4464.4 5144.1 8.7053													
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						1				1			
P = 2.50 MPa (223.95°C)         P = 3.00 MPa (233.85°C)         P = 3.50 MPa (242.56°C)           Sat.         0.07995         2602.1         2801.9         6.2558         0.06667         2603.2         2803.2         6.1856         0.05706         2603.0         2802.7         6.1244           255         0.08026         2604.8         2805.5         6.2629         0.07063         2644.7         2856.5         6.2893         0.05876         2624.0         2829.7         6.1764           300         0.09894         2762.2         3009.6         6.6459         0.08118         2750.8         2994.3         6.5412         0.06845         2738.8         2978.4         6.4484           350         0.10979         2852.5         3127.0         6.8424         0.09056         2844.4         3116.1         6.7450         0.07680         2836.0         3104.9         6.6601           400         0.12012         2939.8         3240.1         7.0170         0.09938         2933.6         3231.7         6.9235         0.08456         2927.2         3223.2         6.8428           450         0.13999         3112.8         3462.8         7.3254         0.10789         3021.2         3344.9 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
Sat.         0.07995         2602.1         2801.9         6.2558         0.06667         2603.2         2803.2         6.1856         0.05706         2603.0         2802.7         6.1244           225         0.08026         2604.8         2805.5         6.2629           250         0.08705         2663.3         2880.9         6.4107         0.07063         2644.7         2856.5         6.2893         0.05876         2624.0         2829.7         6.1764           300         0.09894         2762.2         3009.6         6.6459         0.08118         2750.8         2994.3         6.5412         0.06845         2738.8         2978.4         6.4484           350         0.10979         2852.5         3127.0         6.8424         0.09056         2844.4         3116.1         6.7450         0.07680         2836.0         3104.9         6.6601           400         0.12012         2939.8         3240.1         7.0170         0.09938         2933.6         3231.7         6.9235         0.08456         2927.2         3223.2         6.8428           450         0.13015         3026.2         3351.6         7.1768         0.10789         3021.2         3344.9         7.0856         0.09198	1300	0.45383	4684.8	5410.9	9.2418	0.40341	4684.5	5410.	.6 9.18/2	0.36308	4684.2	5410.3	9.1384
225         0.08026         2604.8         2805.5         6.2629           250         0.08705         2663.3         2880.9         6.4107         0.07063         2644.7         2856.5         6.2893         0.05876         2624.0         2829.7         6.1764           300         0.09894         2762.2         3009.6         6.6459         0.08118         2750.8         2994.3         6.5412         0.06845         2738.8         2978.4         6.4484           350         0.10979         2852.5         3127.0         6.8424         0.09056         2844.4         3116.1         6.7450         0.07680         2836.0         3104.9         6.6601           400         0.12012         2939.8         3240.1         7.0170         0.09938         2933.6         3231.7         6.9235         0.08456         2927.2         3223.2         6.8428           450         0.13015         3026.2         3351.6         7.1768         0.10789         3021.2         3344.9         7.0856         0.09198         3016.1         3338.1         7.0074           500         0.15931         3288.5         3686.8         7.5979         0.13245         3285.5         3682.8         7.5103         0.11325		P	= 2.50 MI	Pa (223.9	5°C)	Р	= 3.00 1	MPa (233	.85°C)	P =	3.50 MP	a (242.5	6°C)
250         0.08705         2663.3         2880.9         6.4107         0.07063         2644.7         2856.5         6.2893         0.05876         2624.0         2829.7         6.1764           300         0.09894         2762.2         3009.6         6.6459         0.08118         2750.8         2994.3         6.5412         0.06845         2738.8         2978.4         6.4484           350         0.10979         2852.5         3127.0         6.8424         0.09056         2844.4         3116.1         6.7450         0.07680         2836.0         3104.9         6.6601           400         0.12012         2939.8         3240.1         7.0170         0.09938         2933.6         3231.7         6.9235         0.08456         2927.2         3223.2         6.8428           450         0.13015         3026.2         3351.6         7.1768         0.10789         3021.2         3344.9         7.0856         0.09198         3016.1         3338.1         7.0074           500         0.13999         3112.8         3462.8         7.5979         0.13245         3285.5         3682.8         7.5103         0.11325         3282.5         3678.9         7.4357           700         0.17835	Sat.	0.07995	2602.1	2801.9	6.2558	0.06667	2603.2	2803.	2 6.1856	0.05706	2603.0	2802.7	6.1244
300         0.09894         2762.2         3009.6         6.6459         0.08118         2750.8         2994.3         6.5412         0.06845         2738.8         2978.4         6.4484           350         0.10979         2852.5         3127.0         6.8424         0.09056         2844.4         3116.1         6.7450         0.07680         2836.0         3104.9         6.6601           400         0.12012         2939.8         3240.1         7.0170         0.09938         2933.6         3231.7         6.9235         0.08456         2927.2         3223.2         6.8428           450         0.13015         3026.2         3351.6         7.1768         0.10789         3021.2         3344.9         7.0856         0.09198         3016.1         3338.1         7.0074           500         0.13999         3112.8         3462.8         7.3254         0.11620         3108.6         3457.2         7.2359         0.09919         3104.5         3451.7         7.1593           600         0.15931         3288.5         3686.8         7.5979         0.13245         3285.5         3682.8         7.5103         0.11325         3282.5         3678.9         7.4357           700         0.17835	225	0.08026	2604.8	2805.5	6.2629								
350         0.10979         2852.5         3127.0         6.8424         0.09056         2844.4         3116.1         6.7450         0.07680         2836.0         3104.9         6.6601           400         0.12012         2939.8         3240.1         7.0170         0.09938         2933.6         3231.7         6.9235         0.08456         2927.2         3223.2         6.8428           450         0.13015         3026.2         3351.6         7.1768         0.10789         3021.2         3344.9         7.0856         0.09198         3016.1         3338.1         7.0074           500         0.13999         3112.8         3462.8         7.3254         0.11620         3108.6         3457.2         7.2359         0.09919         3104.5         3451.7         7.1593           600         0.15931         3288.5         3686.8         7.5979         0.13245         3285.5         3682.8         7.5103         0.11325         3282.5         3678.9         7.4357           700         0.17835         3469.3         3915.2         7.8455         0.14841         3467.0         3912.2         7.7590         0.12702         3464.7         3909.3         7.6855           800         0.19722	250	0.08705	2663.3	2880.9	6.4107	0.07063	2644.7	2856.	5 6.2893	0.05876	2624.0	2829.7	6.1764
400         0.12012         2939.8         3240.1         7.0170         0.09938         2933.6         3231.7         6.9235         0.08456         2927.2         3223.2         6.8428           450         0.13015         3026.2         3351.6         7.1768         0.10789         3021.2         3344.9         7.0856         0.09198         3016.1         3338.1         7.0074           500         0.13999         3112.8         3462.8         7.3254         0.11620         3108.6         3457.2         7.2359         0.09919         3104.5         3451.7         7.1593           600         0.15931         3288.5         3686.8         7.5979         0.13245         3285.5         3682.8         7.5103         0.11325         3282.5         3678.9         7.4357           700         0.17835         3469.3         3915.2         7.8455         0.14841         3467.0         3912.2         7.7590         0.12702         3464.7         3909.3         7.6855           800         0.19722         3656.2         4149.2         8.0744         0.16420         3654.3         4146.9         7.9885         0.14061         3652.5         4144.6         7.9156           900         0.21597	300	0.09894	2762.2	3009.6	6.6459	0.08118	2750.8	2994.			2738.8	2978.4	6.4484
450         0.13015         3026.2         3351.6         7.1768         0.10789         3021.2         3344.9         7.0856         0.09198         3016.1         3338.1         7.0074           500         0.13999         3112.8         3462.8         7.3254         0.11620         3108.6         3457.2         7.2359         0.09919         3104.5         3451.7         7.1593           600         0.15931         3288.5         3686.8         7.5979         0.13245         3285.5         3682.8         7.5103         0.11325         3282.5         3678.9         7.4357           700         0.17835         3469.3         3915.2         7.8455         0.14841         3467.0         3912.2         7.7590         0.12702         3464.7         3909.3         7.6855           800         0.19722         3656.2         4149.2         8.0744         0.16420         3654.3         4146.9         7.9885         0.14061         3652.5         4144.6         7.9156           900         0.21597         3849.4         4389.3         8.2882         0.17988         3847.9         4387.5         8.2028         0.15410         3846.4         4385.7         8.1304           1000         0.23466	350	0.10979	2852.5	3127.0	6.8424	0.09056	2844.4	3116.	1 6.7450	0.07680	2836.0	3104.9	6.6601
500         0.13999         3112.8         3462.8         7.3254         0.11620         3108.6         3457.2         7.2359         0.09919         3104.5         3451.7         7.1593           600         0.15931         3288.5         3686.8         7.5979         0.13245         3285.5         3682.8         7.5103         0.11325         3282.5         3678.9         7.4357           700         0.17835         3469.3         3915.2         7.8455         0.14841         3467.0         3912.2         7.7590         0.12702         3464.7         3909.3         7.6855           800         0.19722         3656.2         4149.2         8.0744         0.16420         3654.3         4146.9         7.9885         0.14061         3652.5         4144.6         7.9156           900         0.21597         3849.4         4389.3         8.2882         0.17988         3847.9         4387.5         8.2028         0.15410         3846.4         4385.7         8.1304           1000         0.23466         4049.0         4635.6         8.4897         0.19549         4047.7         4634.2         8.4045         0.16751         4046.4         4632.7         8.3324           1200         0.27190	400	0.12012	2939.8	3240.1	7.0170	0.09938	2933.6	3231.	7 6.9235	0.08456	2927.2	3223.2	6.8428
600       0.15931       3288.5       3686.8       7.5979       0.13245       3285.5       3682.8       7.5103       0.11325       3282.5       3678.9       7.4357         700       0.17835       3469.3       3915.2       7.8455       0.14841       3467.0       3912.2       7.7590       0.12702       3464.7       3909.3       7.6855         800       0.19722       3656.2       4149.2       8.0744       0.16420       3654.3       4146.9       7.9885       0.14061       3652.5       4144.6       7.9156         900       0.21597       3849.4       4389.3       8.2882       0.17988       3847.9       4387.5       8.2028       0.15410       3846.4       4385.7       8.1304         1000       0.23466       4049.0       4635.6       8.4897       0.19549       4047.7       4634.2       8.4045       0.16751       4046.4       4632.7       8.3324         1100       0.25330       4254.7       4887.9       8.6804       0.21105       4253.6       4886.7       8.5955       0.18087       4252.5       4885.6       8.5236         1200       0.27190       4466.3       5146.0       8.8618       0.22658       4465.3       5145.1       8.7771<	450	0.13015	3026.2	3351.6	7.1768	0.10789	3021.2	3344.	9 7.0856	0.09198	3016.1	3338.1	7.0074
600       0.15931       3288.5       3686.8       7.5979       0.13245       3285.5       3682.8       7.5103       0.11325       3282.5       3678.9       7.4357         700       0.17835       3469.3       3915.2       7.8455       0.14841       3467.0       3912.2       7.7590       0.12702       3464.7       3909.3       7.6855         800       0.19722       3656.2       4149.2       8.0744       0.16420       3654.3       4146.9       7.9885       0.14061       3652.5       4144.6       7.9156         900       0.21597       3849.4       4389.3       8.2882       0.17988       3847.9       4387.5       8.2028       0.15410       3846.4       4385.7       8.1304         1000       0.23466       4049.0       4635.6       8.4897       0.19549       4047.7       4634.2       8.4045       0.16751       4046.4       4632.7       8.3324         1100       0.25330       4254.7       4887.9       8.6804       0.21105       4253.6       4886.7       8.5955       0.18087       4252.5       4885.6       8.5236         1200       0.27190       4466.3       5146.0       8.8618       0.22658       4465.3       5145.1       8.7771<	500	0.13999	3112.8		7.3254	0.11620	3108.6	3457.	2 7.2359	0.09919	3104.5	3451.7	7.1593
700     0.17835     3469.3     3915.2     7.8455     0.14841     3467.0     3912.2     7.7590     0.12702     3464.7     3909.3     7.6855       800     0.19722     3656.2     4149.2     8.0744     0.16420     3654.3     4146.9     7.9885     0.14061     3652.5     4144.6     7.9156       900     0.21597     3849.4     4389.3     8.2882     0.17988     3847.9     4387.5     8.2028     0.15410     3846.4     4385.7     8.1304       1000     0.23466     4049.0     4635.6     8.4897     0.19549     4047.7     4634.2     8.4045     0.16751     4046.4     4632.7     8.3324       1100     0.25330     4254.7     4887.9     8.6804     0.21105     4253.6     4886.7     8.5955     0.18087     4252.5     4885.6     8.5236       1200     0.27190     4466.3     5146.0     8.8618     0.22658     4465.3     5145.1     8.7771     0.19420     4464.4     5144.1     8.7053				3686.8		0.13245	3285.5			0.11325		3678.9	7.4357
800       0.19722       3656.2       4149.2       8.0744       0.16420       3654.3       4146.9       7.9885       0.14061       3652.5       4144.6       7.9156         900       0.21597       3849.4       4389.3       8.2882       0.17988       3847.9       4387.5       8.2028       0.15410       3846.4       4385.7       8.1304         1000       0.23466       4049.0       4635.6       8.4897       0.19549       4047.7       4634.2       8.4045       0.16751       4046.4       4632.7       8.3324         1100       0.25330       4254.7       4887.9       8.6804       0.21105       4253.6       4886.7       8.5955       0.18087       4252.5       4885.6       8.5236         1200       0.27190       4466.3       5146.0       8.8618       0.22658       4465.3       5145.1       8.7771       0.19420       4464.4       5144.1       8.7053							3467.0						
900     0.21597     3849.4     4389.3     8.2882     0.17988     3847.9     4387.5     8.2028     0.15410     3846.4     4385.7     8.1304       1000     0.23466     4049.0     4635.6     8.4897     0.19549     4047.7     4634.2     8.4045     0.16751     4046.4     4632.7     8.3324       1100     0.25330     4254.7     4887.9     8.6804     0.21105     4253.6     4886.7     8.5955     0.18087     4252.5     4885.6     8.5236       1200     0.27190     4466.3     5146.0     8.8618     0.22658     4465.3     5145.1     8.7771     0.19420     4464.4     5144.1     8.7053		0.19722	3656.2			0.16420							
1000     0.23466     4049.0     4635.6     8.4897     0.19549     4047.7     4634.2     8.4045     0.16751     4046.4     4632.7     8.3324       1100     0.25330     4254.7     4887.9     8.6804     0.21105     4253.6     4886.7     8.5955     0.18087     4252.5     4885.6     8.5236       1200     0.27190     4466.3     5146.0     8.8618     0.22658     4465.3     5145.1     8.7771     0.19420     4464.4     5144.1     8.7053						1							
1100     0.25330     4254.7     4887.9     8.6804     0.21105     4253.6     4886.7     8.5955     0.18087     4252.5     4885.6     8.5236       1200     0.27190     4466.3     5146.0     8.8618     0.22658     4465.3     5145.1     8.7771     0.19420     4464.4     5144.1     8.7053						1							
1200 0.27190 4466.3 5146.0 8.8618 0.22658 4465.3 5145.1 8.7771 0.19420 4464.4 5144.1 8.7053										1			
						1							
										1			

TABLE A-6

			0									
Superh	neated wat	er ( <i>Conti</i>	nued)		I				ı			
T	V	И	h	S	V	И	h	S	V	И	h	S
°C	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg⋅K	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg∙K	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg·K
	Р	= 4.0 MF	Pa (250.35	5°C)	Р	= 4.5 MP	a (257.44°	°C)	P =	5.0 MPa	(263.94	°C)
Sat.	0.04978	2601.7	2800.8	6.0696	0.04406	2599.7	2798.0	6.0198	0.03945	2597.0	2794 2	5.9737
275	0.05461	2668.9	2887.3	6.2312	0.04733	2651.4	2864.4	6.1429	0.04144	2632.3		6.0571
300	0.05887	2726.2	2961.7	6.3639	0.05138	2713.0	2944.2	6.2854	0.04535	2699.0		6.2111
350	0.06647		3093.3	6.5843	0.05842	2818.6	3081.5	6.5153	0.05197	2809.5		6.4516
400	0.07343	2920.8	3214.5	6.7714	0.06477	2914.2	3205.7	6.7071	0.05784	2907.5		6.6483
450	0.08004	3011.0	3331.2	6.9386	0.07076	3005.8	3324.2	6.8770	0.06332	3000.6		6.8210
500	0.08644	3100.3	3446.0	7.0922	0.07652	3096.0	3440.4	7.0323	0.06858	3091.8		6.9781
600	0.09886	3279.4	3674.9	7.3706	0.08766	3276.4	3670.9	7.3127	0.07870	3273.3		7.2605
700	0.11098	3462.4	3906.3	7.6214	0.09850	3460.0	3903.3	7.5647	0.08852	3457.7		7.5136
800	0.12292	3650.6	4142.3	7.8523	0.10916	3648.8	4140.0	7.7962	0.09816	3646.9		7.7458
900	0.13476	3844.8	4383.9	8.0675	0.11972	3843.3	4382.1	8.0118	0.10769	3841.8		7.9619
1000	0.14653	4045.1	4631.2	8.2698	0.13020	4043.9	4629.8	8.2144	0.11715	4042.6		8.1648
1100	0.15824		4884.4	8.4612	0.14064	4250.4	4883.2	8.4060	0.12655	4249.3		8.3566
1200	0.16992	4463.5	5143.2	8.6430	0.15103	4462.6	5142.2	8.5880	0.13592	4461.6		8.5388
1300	0.18157	4680.9	5407.2	8.8164	0.16140	4680.1	5406.5	8.7616	0.14527	4679.3		8.7124
	Р	= 6.0 MF	Pa (275.59	9°C)	Р	= 7.0 MP	a (285.83°	°C)	P =	8.0 MPa	(295.01	°C)
Sat.	0.03245	2589.9	2784.6	5.8902	0.027378	2581.0	2772.6	5.8148	0.023525	2570 5	2758 7	5.7450
300	0.03619		2885.6	6.0703	0.029492		2839.9	5.9337	0.024279			5.7937
350	0.04225	2790.4	3043.9	6.3357	0.035262		3016.9	6.2305	0.029975			6.1321
400	0.04742	2893.7	3178.3	6.5432	0.039958		3159.2	6.4502	0.034344			6.3658
450	0.05217		3302.9	6.7219	0.044187		3288.3	6.6353	0.038194			6.5579
500	0.05667	3083.1	3423.1	6.8826	0.048157	3074.3	3411.4	6.8000	0.041767		3399.5	6.7266
550	0.06102	3175.2	3541.3	7.0308	0.051966	3167.9	3531.6	6.9507	0.045172		3521.8	6.8800
600	0.06527	3267.2	3658.8	7.1693	0.055665	3261.0	3650.6	7.0910	0.048463	3254.7	3642.4	7.0221
700	0.07355	3453.0	3894.3	7.4247	0.062850	3448.3	3888.3	7.3487	0.054829	3443.6		7.2822
800	0.08165	3643.2	4133.1	7.6582	0.069856		4128.5	7.5836	0.061011			7.5185
900	0.08964	3838.8	4376.6	7.8751	0.076750		4373.0	7.8014	0.067082			7.7372
1000	0.09756		4625.4	8.0786	0.083571		4622.5	8.0055	0.073079			7.9419
1100	0.10543		4879.7	8.2709	0.090341		4877.4	8.1982	0.079025			8.1350
1200	0.11326	4459.8	5139.4	8.4534	0.097075		5137.4	8.3810	0.084934			8.3181
1300	0.12107	46//./	5404.1	8.6273	0.103781	46/6.1	5402.6	8.5551	0.090817	46/4.5	5401.0	8.4925
	<i>P</i>	= 9.0 MF	Pa (303.35	5°C)	<i>P</i> :	= 10.0 MI	Pa (311.00	)°C)	<i>P</i> =	12.5 MPa	a (327.8)	l°C)
Sat.	0.020489		2742.9	5.6791	0.018028		2725.5	5.6159	0.013496	2505.6	2674.3	5.4638
325	0.023284		2857.1	5.8738	0.019877		2810.3	5.7596				
350			2957.3		0.022440		2924.0	5.9460	0.016138			
400	0.029960			6.2876	0.026436		3097.5	6.2141	0.020030			
450	0.033524		3258.0	6.4872	0.029782		3242.4	6.4219	0.023019			
500	0.036793		3387.4	6.6603	0.032811		3375.1	6.5995	0.025630			
550	0.039885		3512.0	6.8164	0.035655		3502.0	6.7585	0.028033			6.6317
600	0.042861		3634.1	6.9605	0.038378		3625.8	6.9045	0.030306			
650	0.045755		3755.2	7.0954	0.041018		3748.1	7.0408	0.032491			
700	0.048589		3876.1	7.2229	0.043597		3870.0	7.1693	0.034612			7.0540
800	0.054132		4119.2	7.4606	0.048629		4114.5	7.4085	0.038724			7.2967
900	0.059562 0.064919		4365.7	7.6802	0.053547		4362.0	7.6290	0.042720 0.046641			
1000	0.064919		4616.7 4872.7	7.8855	0.058391		4613.8	7.8349				
1100 1200	0.070224			8.0791 8.2625	0.063183		4870.3 5131.7	8.0289 8.2126	0.050510 0.054342			7.9220
1300	0.075492			8.4371	0.007938		5398.0	8.3874	0.054342			
		. 10, 2.3		0.1071	3.072007	.0,1.0		J.557 T	3.000147	1007.0	5554.1	

TABLE A-6

Superl	heated wate	er ( <i>Conclu</i>	ıded)									
Т	V	и	h	S	V	и	h	S	V	и	h	S
°C	m³/kg	kJ/kg	kJ/kg	kJ/kg⋅K	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg⋅K	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg⋅K
	P =	= 15.0 MF	°a (342.16	S°C)	P = 1	17.5 MPa	(354.67	'°C)	P =	20.0 MP	a (365.7	5°C)
Sat.	0.010341	2455.7	2610.8	5.3108	0.007932				0.005862			4.9310
350	0.011481	2520.9	2693.1	5.4438								
400	0.015671	2740.6	2975.7	5.8819	0.012463		2902.4		0.009950		2816.9	5.5526
450	0.018477	2880.8	3157.9	6.1434	0.015204			6.0212	0.012721		3061.7	5.9043
500	0.020828 0.022945	2998.4 3106.2	3310.8	6.3480	0.017385			6.2424 6.4266	0.014793 0.016571		3241.2 3396.2	6.1446 6.3390
550 600	0.022943	3209.3	3450.4 3583.1	6.5230 6.6796	0.019303			6.5890	0.018371		3539.0	6.5075
650	0.024321	3310.1	3712.1	6.8233	0.021073				0.010103		3675.3	6.6593
700	0.028621	3409.8	3839.1	6.9573	0.024342				0.013033		3807.8	6.7991
800	0.032121	3609.3	4091.1	7.2037	0.027405				0.023870		4067.5	7.0531
900	0.035503	3811.2	4343.7	7.4288	0.030348		4334.6		0.026484			7.2829
1000	0.038808	4017.1	4599.2	7.6378	0.033215			7.5616	0.029020	4004.3	4584.7	7.4950
1100	0.042062	4227.7	4858.6	7.8339	0.036029			7.7588	0.031504		4847.0	7.6933
1200	0.045279	4443.1	5122.3	8.0192	0.038806	4438.5	5117.6	7.9449	0.033952	4433.8	5112.9	7.8802
1300	0.048469	4663.3	5390.3	8.1952	0.041556	4659.2	5386.5	8.1215	0.036371	4655.2	5382.7	8.0574
		P = 25	.0 MPa			P = 30.0	Э МРа			P = 35	.0 MPa	
375	0.001978	1799.9	1849.4	4.0345	0.001792	1738 1	1791 9	3.9313	0.001701	1702.8	1762.4	3.8724
400	0.006005	2428.5	2578.7	5.1400	0.002798			4.4758	0.002105	1914.9	1988.6	4.2144
425	0.007886	2607.8	2805.0	5.4708	0.005299			5.1473	0.003434	2253.3	2373.5	4.7751
450	0.009176	2721.2	2950.6	5.6759	0.006737			5.4422	0.004957		2671.0	5.1946
500	0.011143	2887.3	3165.9	5.9643	0.008691	2824.0	3084.8	5.7956	0.006933	2755.3	2997.9	5.6331
550	0.012736	3020.8	3339.2	6.1816	0.010175	2974.5	3279.7	6.0403	0.008348	2925.8	3218.0	5.9093
600	0.014140	3140.0	3493.5	6.3637	0.011445			6.2373	0.009523	3065.6	3399.0	6.1229
650	0.015430	3251.9	3637.7	6.5243	0.012590			6.4074	0.010565			6.3030
700	0.016643	3359.9	3776.0	6.6702	0.013654			6.5599	0.011523		3711.6	6.4623
800	0.018922	3570.7	4043.8	6.9322	0.015628		4020.0		0.013278		3996.3	6.7409
900	0.021075	3780.2	4307.1	7.1668	0.017473			7.0695	0.014904		4270.6	6.9853
1000	0.023150	3991.5	4570.2	7.3821	0.019240			7.2880	0.016450		4541.5	7.2069
1100	0.025172	4206.1	4835.4	7.5825	0.020954			7.4906	0.017942		4812.4	7.4118
1200 1300	0.027157 0.029115	4424.6 4647.2	5103.5 5375.1	7.7710 7.9494	0.022630 0.024279		5094.2	7.8602	0.019398 0.020827	4631.2	5085.0 5360.2	7.6034 7.7841
1300	0.023113			7.5454	0.024273			7.0002	0.020027			7.7041
		P = 40				P = 50.0				P = 60		
375	0.001641	1677.0	1742.6	3.8290		1638.6			0.001503			3.7149
400	0.001911	1855.0	1931.4	4.1145	0.001731				0.001633			
425	0.002538		2199.0		0.002009							
450	0.003692	2681.6	2511.8 2906.5	4.9449	0.002487				0.002086 0.002952			
500 550	0.005623 0.006985	2875.1	3154.4	5.4744 5.7857	0.003890				0.002952			
600	0.008983	3026.8	3350.4	6.0170	0.005118				0.003933		3156.8	5.6527
650	0.008083	3159.5	3521.6	6.2078	0.006108				0.004833			5.8867
700	0.009033	3282.0		6.3740	0.000337				0.006265			
800	0.011521	3511.8	3972.6	6.6613	0.009073				0.007456		3880.0	6.4033
900	0.012980	3733.3	4252.5	6.9107	0.010296				0.008519			6.6725
1000	0.014360	3952.9	4527.3	7.1355	0.011441				0.009504			
1100	0.015686	4173.7		7.3425	0.012534				0.010439			
1200	0.016976	4396.9	5075.9	7.5357	0.013590	4378.6	5058.1	7.4207	0.011339	4360.5	5040.8	7.3248
1300	0.018239	4623.3		7.7175	0.014620	4607.5	5338.5	7.6048	0.012213	4591.8	5324.5	7.5111
					I.				1			

TABLE A-7

Compr	essed liqui	d water										
T	V	И	h	S	V	И	h	S	V	И	h	S
°C	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg·K	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg·K	m <sup>3</sup> /kg	kJ/kg	kJ/kg	kJ/kg·K
	P =	= 5 MPa (	 (263.94°C	;)	P =	= 10 MPa	(311.00°C	C)	P =	15 MPa	(342.16°	(C)
Sat.	0.0012862	1148.1	1154.5	2.9207	0.0014522	1393.3	1407.9	3.3603	0.0016572	1585.5	1610.3	3.6848
0	0.0009977	0.04	5.03	0.0001	0.0009952	0.12	10.07	0.0003	0.0009928	0.18	15.07	0.0004
20	0.0009996	83.61	88.61	0.2954	0.0009973	83.31	93.28	0.2943	0.0009951	83.01	97.93	0.2932
40	0.0010057	166.92	171.95	0.5705	0.0010035	166.33	176.37	0.5685	0.0010013	165.75	180.77	0.5666
60	0.0010149	250.29	255.36	0.8287	0.0010127	249.43	259.55	0.8260	0.0010105	248.58	263.74	0.8234
80	0.0010267			1.0723	0.0010244	332.69	342.94	1.0691	0.0010221	331.59	346.92	
100	0.0010410	417.65	422.85	1.3034	0.0010385	416.23	426.62	1.2996	0.0010361	414.85	430.39	1.2958
120	0.0010576		507.19	1.5236	0.0010549	500.18	510.73	1.5191	0.0010522	498.50	514.28	
140	0.0010769			1.7344	0.0010738	584.72	595.45	1.7293	0.0010708	582.69	598.75	
160	0.0010988			1.9374	0.0010954	670.06	681.01	1.9316	0.0010920	667.63	684.01	
180	0.0011240		765.09	2.1338	0.0011200	756.48	767.68	2.1271	0.0011160	753.58	770.32	
200	0.0011531			2.3251	0.0011482	844.32	855.80	2.3174	0.0011435	840.84	858.00	
220	0.0011868				0.0011809	934.01	945.82	2.5037	0.0011752	929.81	947.43	
240	0.0012268		1037.7	2.6983	0.0012192		1038.3	2.6876	0.0012121		1039.2	2.6774
260	0.0012755	1128.5	1134.9	2.8841	0.0012653		1134.3	2.8710	0.0012560		1134.0	2.8586
280					0.0013226		1235.0	3.0565	0.0013096		1233.0	3.0410
300					0.0013980	1329.4	1343.3	3.2488	0.0013783		1338.3	3.2279
320									0.0014733		1454.0	3.4263
340									0.0016311	1567.9	1592.4	3.6555
	P =	20 MPa	(365.75°C	C)		P = 30	MPa			P = 50	MPa	
Sat.	0.0020378	1785.8	1826.6	4.0146								
0	0.0009904	0.23	20.03	0.0005	0.0009857	0.29	29.86	0.0003	0.0009767	0.29	49.13	-0.0010
20	0.0009929	82.71	102.57	0.2921	0.0009886	82.11	111.77	0.2897	0.0009805	80.93	129.95	0.2845
40	0.0009992	165.17	185.16	0.5646	0.0009951	164.05	193.90	0.5607	0.0009872	161.90	211.25	0.5528
60	0.0010084	247.75	267.92		0.0010042	246.14	276.26	0.8156	0.0009962	243.08	292.88	0.8055
80	0.0010199			1.0627	0.0010155	328.40	358.86	1.0564	0.0010072	324.42	374.78	
100	0.0010337			1.2920	0.0010290	410.87	441.74	1.2847	0.0010201	405.94	456.94	
120	0.0010496			1.5105	0.0010445	493.66	525.00	1.5020	0.0010349	487.69	539.43	
140	0.0010679		602.07	1.7194	0.0010623	576.90	608.76	1.7098	0.0010517	569.77	622.36	
160	0.0010886			1.9203	0.0010823	660.74	693.21	1.9094	0.0010704	652.33	705.85	
180	0.0011122			2.1143	0.0011049	745.40	778.55	2.1020	0.0010914	735.49	790.06	
200	0.0011390			2.3027	0.0011304	831.11	865.02	2.2888	0.0011149	819.45	875.19	
220	0.0011697			2.4867	0.0011595	918.15	952.93	2.4707	0.0011412	904.39	961.45	
240	0.0012053		1040.2	2.6676	0.0011927		1042.7	2.6491	0.0011708		1049.1	2.6156
260	0.0012472		1134.0	2.8469	0.0012314		1134.7	2.8250	0.0012044		1138.4	2.7864
280	0.0012978		1231.5	3.0265	0.0012770		1229.8	3.0001	0.0012430		1229.9	2.9547
300	0.0013611		1334.4	3.2091	0.0013322		1328.9	3.1761	0.0012879		1324.0	3.1218
320	0.0014450		1445.5	3.3996	0.0014014		1433.7	3.3558	0.0013409		1421.4	3.2888
340	0.0015693		1571.6	3.6086	0.0014932		1547.1	3.5438	0.0014049		1523.1	3.4575
360	0.0018248	1703.6	1740.1	3.8787	0.0016276		1675.6	3.7499	0.0014848		1630.7	3.6301
380					0.0018729	1782.0	1838.2	4.0026	0.0015884	1667.1	1746.5	3.8102

TABLE A-8

Saturated ice-water vapor

			<i>c volume,</i> <sup>3</sup> /kg		n <i>ternal er</i> kJ/kg		ergy, Enthalpy, kJ/kg				<i>Entropy,</i> kJ/kg∙K		
Temp.,	Sat. press., P <sub>sat</sub> kPa	Sat. ice, v <sub>i</sub>	Sat. vapor, $v_g$	Sat. ice, <i>u<sub>i</sub></i>	Subl., <i>u<sub>ig</sub></i>	Sat. vapor, $u_g$	Sat. ice, h <sub>i</sub>	Subl., h <sub>ig</sub>	Sat. vapor, $h_g$	Sat. ice, s <sub>i</sub>	Subl., $s_{ig}$	Sat. vapor, $s_g$	
		· ·						-					
0.01	0.61169	0.001091	205.99	-333.40	2707.9	2374.5	-333.40	2833.9	2500.5	-1.2202	10.374	9.154	
0	0.61115	0.001091	206.17	-333.43	2707.9	2374.5	-333.43	2833.9	2500.5	-1.2204	10.375	9.154	
-2	0.51772	0.001091	241.62	-337.63	2709.4	2371.8	-337.63	2834.5	2496.8	-1.2358	10.453	9.218	
-4	0.43748	0.001090	283.84	-341.80	2710.8	2369.0	-341.80	2835.0	2493.2	-1.2513	10.533	9.282	
-6	0.36873	0.001090	334.27	-345.94	2712.2	2366.2	-345.93	2835.4	2489.5	-1.2667	10.613	9.347	
-8	0.30998	0.001090	394.66	-350.04	2713.5	2363.5	-350.04	2835.8	2485.8	-1.2821	10.695	9.413	
-10	0.25990	0.001089	467.17	-354.12	2714.8	2360.7	-354.12	2836.2	2482.1	-1.2976	10.778	9.480	
-12	0.21732	0.001089	554.47	-358.17	2716.1	2357.9	-358.17	2836.6	2478.4	-1.3130	10.862	9.549	
-14	0.18121	0.001088	659.88	-362.18	2717.3	2355.2	-362.18	2836.9	2474.7	-1.3284	10.947	9.618	
-16	0.15068	0.001088	787.51	-366.17	2718.6	2352.4	-366.17	2837.2	2471.0	-1.3439	11.033	9.689	
-18	0.12492	0.001088	942.51	-370.13	2719.7	2349.6	-370.13	2837.5	2467.3	-1.3593	11.121	9.761	
-20	0.10326	0.001087	1131.3	-374.06	2720.9	2346.8	-374.06	2837.7	2463.6	-1.3748	11.209	9.835	
-22	0.08510	0.001087	1362.0	-377.95	2722.0	2344.1	-377.95	2837.9	2459.9	-1.3903	11.300	9.909	
-24	0.06991	0.001087	1644.7	-381.82	2723.1	2341.3	-381.82	2838.1	2456.2	-1.4057	11.391	9.985	
-26	0.05725	0.001087	1992.2	-385.66	2724.2	2338.5	-385.66	2838.2	2452.5	-1.4212	11.484	10.063	
-28	0.04673	0.001086	2421.0	-389.47	2725.2	2335.7	-389.47	2838.3	2448.8	-1.4367	11.578	10.141	
-30	0.03802	0.001086	2951.7	-393.25	2726.2	2332.9	-393.25	2838.4	2445.1	-1.4521	11.673	10.221	
-32	0.03082	0.001086	3610.9	-397.00	2727.2	2330.2	-397.00	2838.4	2441.4	-1.4676	11.770	10.303	
-34	0.02490	0.001085	4432.4	-400.72	2728.1	2327.4	-400.72	2838.5	2437.7	-1.4831	11.869	10.386	
-36	0.02004	0.001085	5460.1	-404.40	2729.0	2324.6	-404.40	2838.4	2434.0	-1.4986	11.969	10.470	
-38	0.01608	0.001085	6750.5	-408.07	2729.9	2321.8	-408.07	2838.4	2430.3	-1.5141	12.071	10.557	
-40	0.01285	0.001084	8376.7	-411.70	2730.7	2319.0	-411.70	2838.3	2426.6	-1.5296	12.174	10.644	

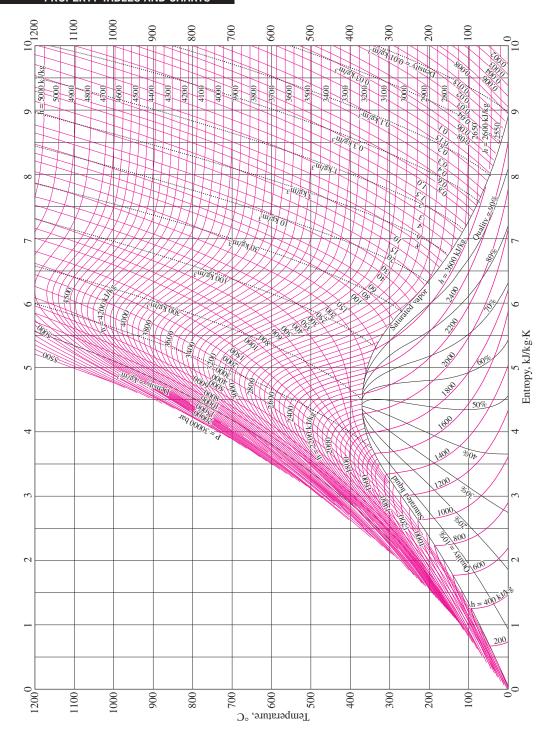


FIGURE A–9 T-s diagram for water.

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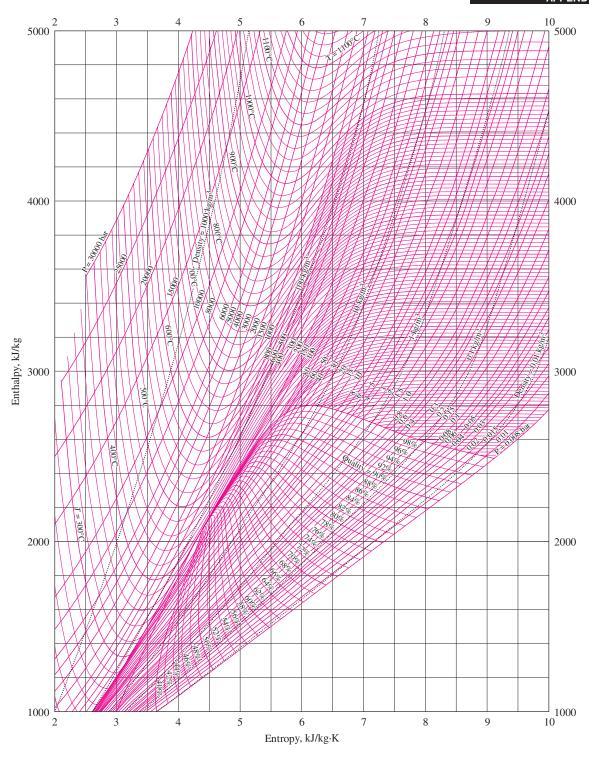


FIGURE A-10

Mollier diagram for water.

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