

**TABLE 1**  
**Saturated steam and water table (Pressure based)**

Pressure in bar	Temp. in °C	Specific volume in m <sup>3</sup> /kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K			
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evpara- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>	
0.006113	0.01	0.001000	206.131	206.132	0.00	2375.30	2375.30	0.0	2501.3	2501.3	0.0000	9.1562	9.1562	
	0.010	0.001000	128.935	128.936	29.40	2355.97	2385.36	29.4	2484.9	2514.3	0.1063	8.8697	8.9760	
	0.015	0.001001	87.378	87.379	54.90	2339.63	2394.53	54.9	2470.7	2525.6	0.1964	8.6316	8.8280	
	0.020	0.001001	66.558	66.559	73.70	2326.98	2400.68	73.7	2460.1	2533.8	0.2611	8.4625	8.7236	
	0.025	0.001002	53.744	53.745	88.70	2317.04	2405.74	88.7	2451.4	2540.1	0.3131	8.3289	8.6420	
	0.030	24.14	0.001003	45.428	45.429	101.20	2308.02	2409.21	101.2	2444.3	2545.5	0.3553	8.2222	8.5775
	0.035	26.69	0.001003	39.471	39.472	111.80	2300.35	2412.15	111.8	2438.5	2550.3	0.3906	8.1327	8.5233
	0.040	28.99	0.001004	34.786	34.787	121.40	2294.06	2415.45	121.4	2433.2	2554.6	0.4225	8.0529	8.4754
	0.045	31.09	0.001005	30.918	30.919	130.20	2288.77	2418.96	130.2	2427.9	2558.1	0.4519	7.9799	8.4318
	0.050	32.93	0.001005	28.083	28.084	137.89	2283.49	2421.38	137.9	2423.9	2561.8	0.4764	7.9191	8.3955
	0.055	34.61	0.001006	25.754	25.755	144.89	2278.15	2423.05	144.9	2419.8	2564.7	0.4996	7.8623	8.3619
	0.060	36.21	0.001006	23.656	23.657	151.59	2273.86	2425.46	151.6	2415.8	2567.4	0.5213	7.8093	8.3306
	0.065	37.70	0.001007	21.875	21.876	157.79	2270.31	2428.11	157.8	2412.5	2570.3	0.5416	7.7598	8.3014
	0.070	39.03	0.001007	20.463	20.464	163.39	2265.96	2429.35	163.4	2409.2	2572.6	0.5592	7.7176	8.2768
	0.075	40.33	0.001008	19.215	19.216	168.79	2262.09	2430.88	168.8	2406.2	2575.0	0.5762	7.6761	8.2523
	0.080	41.55	0.001008	18.073	18.074	173.89	2258.52	2432.41	173.9	2403.1	2577.0	0.5929	7.6364	8.2293
	0.085	42.71	0.001009	17.064	17.065	178.79	2255.46	2434.25	178.8	2400.5	2579.3	0.6080	7.6001	8.2081
	0.090	43.80	0.001009	16.174	16.175	183.79	2251.63	2435.43	183.8	2397.2	2581.0	0.6225	7.5654	8.1879
	0.095	44.85	0.001010	15.375	15.376	187.69	2249.34	2437.03	187.7	2395.4	2583.1	0.6363	7.5322	8.1685
	0.100	45.81	0.001010	14.658	14.659	191.89	2246.22	2438.11	191.9	2392.8	2584.7	0.6494	7.5013	8.1507
	0.11	47.76	0.001011	13.337	13.338	199.89	2241.69	2441.58	199.9	2388.4	2588.3	0.6747	7.4421	8.1168
	0.12	49.47	0.001012	12.332	12.333	206.99	2236.32	2443.30	207.0	2384.3	2591.3	0.6968	7.3898	8.0866
	0.13	51.11	0.001013	11.400	11.401	213.89	2231.90	2445.79	213.9	2380.1	2594.0	0.7176	7.3407	8.0583
	0.14	52.59	0.001013	10.680	10.681	220.09	2227.08	2447.17	220.1	2376.6	2596.7	0.7369	7.2964	8.0333
	0.15	54.02	0.001014	9.994	9.996	226.08	2223.38	2449.46	226.1	2373.3	2599.4	0.7553	7.2537	8.0090
	0.16	55.38	0.001015	9.39399	9.395	231.78	2219.50	2451.28	231.8	2369.8	2601.6	0.7727	7.2133	7.9860
	0.17	56.66	0.001015	8.86398	8.865	237.08	2215.91	2453.00	237.1	2366.6	2603.7	0.7892	7.1758	7.9650
	0.18	57.83	0.001016	8.44298	8.444	241.98	2211.93	2453.91	242.0	2363.9	2605.9	0.8037	7.1420	7.9457
	0.19	58.98	0.001017	8.02398	8.025	246.78	2208.54	2455.33	246.8	2361.0	2607.8	0.8180	7.1090	7.9270
	0.20	60.09	0.001017	7.64698	7.648	251.48	2205.46	2456.94	251.5	2358.4	2609.9	0.8322	7.0774	7.9096

Pressure in bar	Temp. in °C	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
0.21	61.15	0.001018	7.30498	7.306	255.88	2202.40	2458.27	255.9	2355.8	2611.7	0.8453	7.0471	7.8924
0.22	62.21	0.001018	6.96098	6.962	260.28	2200.06	2460.34	260.3	2353.2	2613.5	0.8585	7.0167	7.8752
0.23	63.18	0.001019	6.68298	6.684	264.38	2196.99	2461.37	264.4	2350.7	2615.1	0.8706	6.9897	7.8603
0.24	64.11	0.001019	6.42698	6.428	268.28	2194.45	2462.73	268.3	2348.7	2617.0	0.8822	6.9640	7.8462
0.25	65.01	0.001020	6.19198	6.193	272.07	2191.50	2463.58	272.1	2346.3	2618.4	0.8934	6.9383	7.8317
0.26	65.88	0.001020	5.97398	5.975	275.67	2188.88	2464.55	275.7	2344.2	2619.9	0.9042	6.9142	7.8184
0.27	66.72	0.001021	5.76998	5.771	279.17	2186.31	2465.48	279.2	2342.1	2621.3	0.9147	6.8912	7.8059
0.28	67.58	0.001021	5.55898	5.560	282.77	2184.25	2467.02	282.8	2339.9	2622.7	0.9253	6.8676	7.7929
0.29	68.37	0.001022	5.38698	5.388	286.07	2181.68	2467.75	286.1	2337.9	2624.0	0.9351	6.8460	7.7811
0.30	69.13	0.001022	5.22498	5.226	289.27	2179.55	2468.82	289.3	2336.3	2625.6	0.9441	6.8255	7.7696
0.31	69.92	0.001023	5.04898	5.050	292.57	2177.98	2470.55	292.6	2334.5	2627.1	0.9536	6.8041	7.7577
0.32	70.63	0.001023	4.91098	4.912	295.67	2175.15	2470.82	295.7	2332.3	2628.0	0.9629	6.7840	7.7469
0.33	71.34	0.001024	4.77898	4.780	298.57	2172.89	2471.46	298.6	2330.6	2629.2	0.9711	6.7657	7.7368
0.34	72.06	0.001024	4.63398	4.635	301.57	2171.24	2472.81	301.6	2328.8	2630.4	0.9799	6.7463	7.7262
0.35	72.72	0.001025	4.51798	4.519	304.36	2168.97	2473.34	304.4	2327.1	2631.5	0.9878	6.7286	7.7164
0.36	73.37	0.001025	4.40598	4.407	307.06	2166.88	2473.95	307.1	2325.5	2632.6	0.9957	6.7112	7.7069
0.37	74.05	0.001025	4.28497	4.286	309.86	2165.36	2475.22	309.9	2323.9	2633.8	1.0038	6.6932	7.6970
0.38	74.66	0.001026	4.18597	4.187	312.46	2163.23	2475.69	312.5	2322.3	2634.8	1.0112	6.6772	7.6884
0.39	75.31	0.001026	4.07597	4.077	315.16	2161.74	2476.90	315.2	2320.7	2635.9	1.0190	6.6602	7.6792
0.40	75.89	0.001027	3.98897	3.990	317.66	2159.64	2477.30	317.7	2319.2	2636.9	1.0261	6.6447	7.6708
0.41	76.51	0.001027	3.88897	3.890	320.26	2158.15	2478.41	320.3	2317.6	2637.9	1.0336	6.6283	7.6619
0.42	77.07	0.001027	3.80997	3.811	322.56	2156.18	2478.74	322.6	2316.2	2638.8	1.0403	6.6136	7.6539
0.43	77.67	0.001028	3.71797	3.719	325.06	2154.83	2479.88	325.1	2314.7	2639.8	1.0475	6.5979	7.6454
0.44	78.21	0.001028	3.64697	3.648	327.35	2152.83	2480.19	327.4	2313.3	2640.7	1.0539	6.5844	7.6383
0.45	78.78	0.001028	3.56297	3.564	329.75	2151.57	2481.32	329.8	2311.9	2641.7	1.0609	6.5694	7.6303
0.46	79.29	0.001029	3.49897	3.500	331.85	2149.65	2481.50	331.9	2310.6	2642.5	1.0671	6.5560	7.6231
0.47	79.84	0.001029	3.42197	3.423	334.15	2148.47	2482.62	334.2	2309.3	2643.5	1.0737	6.5417	7.6154
0.48	80.34	0.001029	3.36297	3.364	336.35	2146.48	2482.83	336.4	2307.9	2644.3	1.0791	6.5294	7.6085
0.49	80.87	0.001030	3.29197	3.293	338.55	2145.29	2483.84	338.6	2306.6	2645.2	1.0853	6.5158	7.6011
0.50	81.33	0.001030	3.23697	3.238	340.55	2143.55	2484.10	340.6	2305.4	2646.0	1.0915	6.5029	7.5944
0.51	81.86	0.001030	3.17197	3.173	342.65	2142.43	2485.08	342.7	2304.2	2646.9	1.0976	6.4897	7.5873
0.52	82.33	0.001031	3.12097	3.122	344.65	2140.61	2485.26	344.7	2302.9	2647.6	1.1028	6.4785	7.5813
0.53	82.82	0.001031	3.06197	3.063	346.75	2139.42	2486.16	346.8	2301.7	2648.5	1.1085	6.4661	7.5746
0.54	83.31	0.001031	3.00197	3.003	348.74	2138.39	2487.14	348.8	2300.5	2649.3	1.1143	6.4536	7.5679
0.55	83.75	0.001032	2.95897	2.960	350.64	2136.56	2487.20	350.7	2299.3	2650.0	1.1194	6.4426	7.5620

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		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
0.56	84.23	0.001032	2.90497	2.906	352.64	2135.42	2488.06	352.7	2298.1	2650.8	1.1249	6.4306	7.5555
0.57	84.65	0.001032	2.86397	2.865	354.34	2133.85	2488.20	354.4	2297.1	2651.5	1.1304	6.4199	7.5503
0.58	85.10	0.001033	2.81397	2.815	356.24	2132.79	2489.03	356.3	2296.0	2652.3	1.1359	6.4084	7.5443
0.59	85.56	0.001033	2.76397	2.765	358.14	2131.73	2489.87	358.2	2294.8	2653.0	1.1414	6.3969	7.5383
0.60	85.96	0.001033	2.72197	2.722	359.94	2130.14	2490.08	360.0	2293.4	2653.4	1.1457	6.3867	7.5324
0.61	86.41	0.001034	2.68197	2.683	361.74	2128.60	2490.34	361.8	2292.2	2654.0	1.1508	6.3756	7.5264
0.62	86.80	0.001034	2.64697	2.648	363.44	2127.29	2490.72	363.5	2291.4	2654.9	1.1554	6.3661	7.5215
0.63	87.22	0.001034	2.60497	2.606	365.23	2126.19	2491.42	365.3	2290.3	2655.6	1.1604	6.3555	7.5159
0.64	87.65	0.001034	2.56297	2.564	367.03	2125.17	2492.20	367.1	2289.2	2656.3	1.1654	6.3449	7.5103
0.65	88.03	0.001035	2.53197	2.533	368.53	2123.72	2492.26	368.6	2288.3	2656.9	1.1697	6.3356	7.5053
0.66	88.44	0.001035	2.49297	2.494	370.33	2122.66	2493.00	370.4	2287.2	2657.6	1.1745	6.3254	7.4999
0.67	88.85	0.001035	2.45496	2.456	372.03	2121.72	2493.75	372.1	2286.2	2658.3	1.1793	6.3152	7.4945
0.68	89.20	0.001036	2.42696	2.428	373.53	2120.27	2493.80	373.6	2285.3	2658.9	1.1835	6.3068	7.4903
0.69	89.60	0.001036	2.39096	2.392	375.23	2119.32	2494.55	375.3	2284.3	2659.6	1.1882	6.2971	7.4853
0.70	90.00	0.001036	2.35596	2.357	376.83	2118.38	2495.21	376.9	2283.3	2660.2	1.1928	6.2874	7.4802
0.71	90.34	0.001036	2.32996	2.331	378.33	2116.97	2495.30	378.4	2282.4	2660.8	1.1963	6.2789	7.4752
0.72	90.73	0.001037	2.29696	2.298	379.93	2116.12	2496.04	380.0	2281.5	2661.5	1.2006	6.2696	7.4702
0.73	91.11	0.001037	2.26496	2.266	381.52	2115.16	2496.68	381.6	2280.5	2662.1	1.2049	6.2602	7.4651
0.74	91.44	0.001037	2.24196	2.243	382.92	2113.49	2496.42	383.0	2279.4	2662.4	1.2092	6.2521	7.4613
0.75	91.80	0.001037	2.21196	2.213	384.42	2112.50	2496.93	384.5	2278.4	2662.9	1.2135	6.2431	7.4566
0.76	92.17	0.001038	2.18096	2.182	386.02	2111.55	2497.57	386.1	2277.3	2663.4	1.2178	6.2341	7.4519
0.77	92.49	0.001038	2.15996	2.161	387.32	2110.48	2497.80	387.4	2276.8	2664.2	1.2215	6.2268	7.4483
0.78	92.85	0.001038	2.13296	2.134	388.82	2109.53	2498.35	388.9	2275.9	2664.8	1.2257	6.2182	7.4439
0.79	93.20	0.001039	2.10496	2.106	390.42	2108.61	2499.03	390.5	2274.9	2665.4	1.2298	6.2097	7.4395
0.80	93.52	0.001039	2.08396	2.085	391.72	2107.38	2499.10	391.8	2274.1	2665.9	1.2331	6.2020	7.4351
0.81	93.87	0.001039	2.05696	2.058	393.12	2106.69	2499.80	393.2	2273.3	2666.5	1.2371	6.1936	7.4307
0.82	94.22	0.001039	2.03096	2.032	394.61	2105.86	2500.48	394.7	2272.4	2667.1	1.2411	6.1852	7.4263
0.83	94.57	0.001040	2.00396	2.005	396.11	2105.17	2501.29	396.2	2271.5	2667.7	1.2451	6.1767	7.4218
0.84	94.92	0.001040	1.97696	1.978	397.61	2104.54	2502.15	397.7	2270.6	2668.3	1.2491	6.1683	7.4174
0.85	95.27	0.001040	1.94996	1.951	399.01	2103.95	2502.97	399.1	2269.7	2668.8	1.2532	6.1598	7.4130
0.86	95.62	0.001040	1.93373	1.935	400.51	2102.50	2503.01	400.6	2268.8	2669.4	1.2572	6.1514	7.4086
0.87	95.80	0.001040	1.91091	1.912	401.21	2101.95	2503.16	401.3	2268.2	2669.5	1.2592	6.1476	7.4068
0.88	96.12	0.001041	1.89296	1.894	402.61	2100.60	2503.30	402.7	2267.3	2670.0	1.2630	6.1398	7.4028
0.89	96.45	0.001041	1.87603	1.877	404.01	2099.43	2503.44	404.1	2266.4	2670.5	1.2667	6.1320	7.3987
0.90	96.78	0.001041	1.85796	1.859	405.41	2098.28	2503.69	405.5	2265.5	2671.0	1.2705	6.1241	7.3946

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		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
0.91	97.10	0.001041	1.83496	1.836	406.71	2097.72	2504.68	406.8	2264.7	2671.5	1.2742	6.1164	7.3906
0.92	97.43	0.001042	1.81196	1.813	408.10	2096.58	2505.06	408.2	2263.8	2672.0	1.2780	6.1085	7.3865
0.93	97.76	0.001042	1.79696	1.798	409.50	2095.56	2505.52	409.6	2262.9	2672.5	1.2818	6.1006	7.3824
0.94	97.92	0.001042	1.79196	1.793	410.20	2095.32	2505.96	410.3	2262.5	2672.8	1.2831	6.0973	7.3804
0.95	98.22	0.001042	1.77296	1.774	411.50	2094.46	2506.34	411.6	2261.7	2673.3	1.2866	6.0901	7.3767
0.96	98.53	0.001043	1.75396	1.755	412.80	2093.54	2506.34	412.9	2260.8	2673.7	1.2900	6.0829	7.3729
0.97	98.83	0.001043	1.73396	1.735	414.00	2092.86	2506.86	414.1	2260.1	2674.2	1.2935	6.0756	7.3691
0.98	99.14	0.001043	1.71496	1.716	415.30	2092.09	2507.39	415.4	2259.3	2674.7	1.2969	6.0684	7.3653
0.99	99.44	0.001043	1.69496	1.696	416.60	2091.27	2507.87	416.7	2258.5	2675.2	1.3004	6.0611	7.3615
1.00	99.62	0.001043	1.67596	1.677	417.90	2090.44	2508.34	418.0	2257.4	2675.4	1.3038	6.0539	7.3577
1.01325	100.00	0.001044	1.67196	1.673	418.95	2089.40	2508.35	419.1	2256.9	2676.0	1.3069	6.0485	7.3554
1.05	101.05	0.001045	1.60996	1.611	423.39	2085.15	2508.55	423.5	2254.2	2677.7	1.3186	6.0241	7.3427
1.10	102.32	0.001046	1.54695	1.548	428.78	2080.64	2509.42	428.9	2250.8	2679.7	1.3329	5.9949	7.3278
1.15	103.66	0.001047	1.47595	1.477	434.38	2077.57	2511.95	434.5	2247.3	2681.8	1.3480	5.9640	7.3120
1.20	104.82	0.001048	1.42495	1.426	439.27	2073.01	2512.28	439.4	2244.0	2683.4	1.3612	5.9369	7.2981
1.25	106.08	0.001049	1.36395	1.365	444.57	2070.01	2514.58	444.7	2240.5	2685.2	1.3754	5.9078	7.2832
1.30	107.15	0.001050	1.32195	1.323	448.96	2066.15	2515.11	449.1	2238.0	2687.1	1.3870	5.8840	7.2710
1.35	108.33	0.001051	1.26895	1.270	453.46	2062.99	2516.45	453.6	2235.3	2688.9	1.4001	5.8572	7.2573
1.40	109.33	0.001051	1.23295	1.234	457.05	2060.39	2517.44	457.2	2233.0	2690.2	1.4113	5.8352	7.2465
1.45	110.44	0.001052	1.18795	1.189	462.15	2056.25	2518.40	462.3	2229.5	2691.8	1.4235	5.8106	7.2341
1.50	111.38	0.001053	1.15695	1.158	467.04	4052.76	2519.80	467.2	2226.3	2693.5	1.4336	5.7905	7.2241
1.55	112.42	0.001054	1.11695	1.118	471.34	2050.47	2521.81	471.5	2223.6	2695.1	1.4449	5.7689	7.2241
1.60	113.46	0.001055	1.07795	1.079	475.73	2048.33	2524.06	475.9	2220.8	2696.7	1.4563	5.7483	7.2046
1.65	114.30	0.001056	1.05494	1.056	479.33	2044.13	2523.46	479.5	2218.2	2697.7	1.4660	5.7277	7.1937
1.70	115.27	0.001056	1.02094	1.022	483.52	2041.84	2525.36	483.7	2215.4	2699.1	1.4769	5.7053	7.1822
1.75	116.08	0.001057	0.99994	1.001	486.92	2039.21	2526.13	487.1	2213.2	2700.3	1.4848	5.6864	7.1712
1.80	117.00	0.001058	0.971163	0.972221	490.81	2035.89	2526.70	491.0	2210.7	2701.7	1.4947	5.6663	7.1610
1.85	117.78	0.001059	0.947840	0.948899	494.10	2033.15	2527.25	494.3	2208.5	2702.8	1.5036	5.6495	7.1531
1.90	118.65	0.001059	0.925525	0.926584	497.80	2030.25	2528.05	498.0	2206.1	2704.1	1.5130	5.6308	7.1438
1.95	119.52	0.001060	0.904293	0.905353	501.49	2027.36	2528.86	501.7	2203.7	2705.4	1.5225	5.6119	7.1344
2.00	120.23	0.001061	0.883908	0.884969	504.49	2024.92	2529.41	504.7	2201.7	2706.4	1.5304	5.5963	7.1267
2.10	121.87	0.001062	0.838911	0.839973	511.48	2020.93	2532.41	511.7	2197.1	2708.8	1.5482	5.5609	7.1091
2.20	123.31	0.001064	0.806122	0.807186	517.57	2015.45	2533.02	517.8	2192.8	2710.6	1.5634	5.5309	7.0943
2.30	124.71	0.001065	0.775321	0.776386	523.56	2010.58	2534.13	523.8	2188.9	2712.7	1.5784	5.5016	7.0800
2.40	126.17	0.001066	0.740997	0.742063	529.74	2007.06	2536.80	530.0	2184.9	2714.9	1.5941	5.4708	7.0649
2.50	127.46	0.001068	0.715946	0.717014	535.23	2002.02	2537.25	535.5	2181.0	2716.5	1.6073	5.4443	7.0516

TABLE 1

Pressure in bar	Temp. in °C	Specific volume in m <sup>3</sup> /kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
2.60	128.84	0.001069	0.685866	0.686935	541.02	1998.67	2539.70	541.3	2177.0	2718.3	1.6219	5.4154	7.0373
2.70	130.03	0.001070	0.665189	0.666259	546.11	1993.90	2540.01	546.4	2173.5	2719.9	1.6351	5.3905	7.0256
2.80	131.21	0.001071	0.644851	0.645922	551.20	1989.44	2540.64	551.5	2170.0	2721.5	1.6472	5.3668	7.0140
2.90	132.44	0.001072	0.621676	0.622748	556.39	1986.21	2542.60	556.7	2166.5	2723.2	1.6603	5.3414	7.0017
3.00	133.55	0.001074	0.604218	0.605291	561.08	1982.03	2543.11	561.4	2163.3	2724.7	1.6715	5.3192	6.9907
3.10	134.72	0.001075	0.583794	0.584869	566.17	1978.82	2544.99	566.5	2159.8	2726.3	1.6836	5.2954	6.9790
3.20	135.76	0.001076	0.568729	0.569805	570.56	1974.61	2545.16	570.9	2156.6	2727.5	1.6949	5.2284	6.9233
3.30	136.87	0.001077	0.550762	0.551839	575.34	1971.45	2546.79	575.7	2153.2	2728.9	1.7066	5.1849	6.8915
3.40	137.86	0.001078	0.537312	0.538390	579.53	1967.81	2547.35	579.9	2150.5	2730.4	1.7166	5.2338	6.9504
3.50	138.92	0.001079	0.521415	0.522494	584.02	1964.90	2548.93	584.4	2147.4	2731.8	1.7275	5.2327	6.9602
3.60	139.97	0.001080	0.505517	0.506597	588.61	1962.21	2550.83	589.0	2144.2	2733.2	1.7385	5.2314	6.9699
3.70	140.86	0.001081	0.495305	0.496386	592.50	1957.94	2550.44	592.9	2141.2	2734.1	1.7483	5.1717	6.9200
3.80	141.87	0.001082	0.481254	0.482336	596.79	1955.32	2552.11	597.2	2138.2	2735.4	1.7589	5.1515	6.9104
3.90	142.73	0.001083	0.471804	0.472887	600.48	1951.60	2552.07	600.9	2135.6	2736.5	1.7670	5.1356	6.9026
4.00	143.63	0.001084	0.459360	0.460444	604.57	1948.96	2553.52	605.0	2132.7	2737.7	1.7767	5.1169	6.8936
4.10	144.52	0.001085	0.450493	0.451578	608.16	1945.40	2553.55	608.6	2130.1	2738.7	1.7856	5.1006	6.8862
4.20	145.42	0.001086	0.439448	0.440534	611.94	1942.93	2554.88	612.4	2127.5	2739.9	1.7950	5.0828	6.8778
4.30	146.33	0.001087	0.428414	0.429501	615.83	1940.48	2555.31	616.3	2124.7	2741.0	1.8044	5.0651	6.8695
4.40	147.10	0.001087	0.421175	0.422262	619.22	1936.98	2556.20	619.7	2122.3	2742.0	1.8119	5.0504	6.8623
4.50	147.97	0.001088	0.411373	0.412461	622.91	1934.58	2557.49	623.4	2119.7	2743.1	1.8207	5.0337	6.8544
4.60	148.83	0.001089	0.401570	0.402659	626.60	1932.28	2557.88	627.1	2117.0	2744.1	1.8294	5.0170	6.8464
4.70	149.55	0.001090	0.395568	0.396658	629.69	1928.58	2558.27	630.2	2114.5	2744.7	1.8373	5.0025	6.8398
4.80	150.37	0.001091	0.386849	0.387940	633.18	1926.31	2559.49	633.7	2112.0	2745.7	1.8458	4.9864	6.8322
4.90	151.19	0.001092	0.378131	0.379223	636.66	1924.12	2560.78	637.2	2109.4	2746.6	1.8543	4.9703	6.8246
5.00	151.86	0.001093	0.36703	0.36812	639.55	1921.08	2563.64	640.1	2107.6	2747.7	1.8608	4.9581	6.8189
6.00	158.85	0.001101	0.313677	0.314777	670.14	1896.39	2566.53	670.8	2084.6	2755.4	1.9310	4.8260	6.7570
7.00	164.97	0.001108	0.271349	0.272457	696.22	1875.06	2571.28	697.0	2065.0	2762.0	1.9919	4.7129	6.7048
8.00	170.43	0.001115	0.238351	0.239466	720.41	1855.32	2575.73	721.3	2046.0	2767.3	2.0461	4.6126	6.6587
9.00	175.44	0.001122	0.212661	0.213783	742.09	1837.80	2579.90	743.1	2029.2	2772.3	2.0948	4.5238	6.6186
10.00	179.91	0.001127	0.192217	0.193344	761.87	1822.68	2584.56	763.0	2014.9	2777.9	2.1392	4.4427	6.5819
11.00	184.14	0.001133	0.175578	0.176711	780.05	1805.36	2585.42	781.3	1998.5	2779.8	2.1792	4.3694	6.5486
12.00	187.99	0.001139	0.161782	0.162921	797.33	1789.76	2587.09	798.7	1983.9	2782.6	2.2163	4.3024	6.5187
13.00	191.62	0.001144	0.149892	0.151036	813.31	1775.84	2589.15	814.8	1970.7	2785.5	2.2511	4.2399	6.4910
14.00	195.07	0.001149	0.139134	0.140283	828.79	1762.51	2591.30	830.4	1957.3	2787.7	2.2845	4.1804	6.4649
15.00	198.30	0.001154	0.130427	0.131581	843.07	1749.46	2592.53	844.8	1945.1	2789.9	2.3144	4.1260	6.4404

Pressure in bar	Temp. in °C	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evpara- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
16.00	201.40	0.001159	0.122262	0.123421	856.95	1737.48	2594.43	858.8	1933.1	2791.9	2.3444	4.0725	6.4169
17.00	204.38	0.001163	0.115019	0.116182	870.22	1725.57	2595.79	872.2	1921.1	2793.3	2.3721	4.0233	6.3954
18.00	207.15	0.001168	0.109098	0.110266	882.40	1714.02	2596.42	884.5	1910.4	2794.9	2.3979	3.9768	6.3747
19.00	209.82	0.001172	0.103361	0.104533	894.77	1702.61	2597.39	897.0	1899.0	2796.0	2.4227	3.9323	6.3550
20.00	212.42	0.001176	0.098191	0.099367	906.25	1692.52	2598.77	908.6	1888.9	2797.5	2.4473	3.8893	6.3366
21.00	214.90	0.001181	0.093495	0.094676	917.72	1681.86	2599.58	920.2	1878.2	2798.4	2.4707	3.8474	6.3181
22.00	217.30	0.001186	0.089242	0.090427	928.59	1671.47	2600.06	931.2	1867.8	2799.0	2.4926	3.8086	6.3012
23.00	219.61	0.001189	0.085346	0.086535	939.06	1662.01	2601.07	941.8	1858.3	2800.1	2.5139	3.7708	6.2847
24.00	221.84	0.001193	0.081640	0.082833	949.24	1652.16	2601.40	952.1	1848.1	2800.2	2.5352	3.7335	6.2687
25.00	223.99	0.001198	0.078510	0.079708	959.11	1642.72	2601.83	962.1	1839.0	2801.1	2.5548	3.6985	6.2533
26.00	226.07	0.001201	0.075492	0.076692	968.98	1632.92	2601.90	972.1	1829.2	2801.3	2.5741	3.6642	6.2383
27.00	228.11	0.001205	0.072688	0.073893	977.95	1624.24	2602.19	981.2	1820.5	2801.7	2.5928	3.6310	6.2238
28.00	230.07	0.001209	0.070085	0.071294	987.21	1615.26	2602.48	990.6	1811.5	2802.1	2.6109	3.5995	6.2104
29.00	231.99	0.001213	0.067655	0.068868	996.18	1606.30	2602.48	999.7	1802.5	2802.2	2.6286	3.5679	6.1965
30.00	233.90	0.001216	0.065379	0.066596	1004.75	1597.86	2602.61	1008.4	1794.0	2802.4	2.6458	3.5378	6.1836
31.00	235.67	0.001220	0.063242	0.064462	1013.22	1589.35	2602.57	1017.0	1785.4	2802.4	2.6621	3.5089	6.1710
32.00	237.50	0.001224	0.061056	0.062280	1021.68	1581.42	2603.10	1025.6	1776.8	2802.4	2.6787	3.4795	6.1582
33.00	239.22	0.001227	0.059204	0.060431	1029.65	1573.33	2602.98	1033.7	1768.7	2802.4	2.6949	3.4513	6.1462
34.00	240.90	0.001231	0.057445	0.058677	1037.81	1564.69	2602.50	1042.0	1760.0	2802.0	2.7105	3.4240	6.1345
35.00	242.60	0.001234	0.055778	0.057012	1045.58	1556.78	2602.36	1049.9	1752.0	2801.9	2.7252	3.3974	6.1226
36.00	244.22	0.001238	0.054038	0.055276	1053.45	1549.26	2602.71	1057.9	1743.8	2801.7	2.7403	3.3703	6.1106
37.00	245.79	0.001242	0.052570	0.053811	1060.51	1541.89	2602.40	1065.1	1736.4	2801.5	2.7552	3.3448	6.1000
38.00	247.32	0.001245	0.051165	0.052410	1068.27	1533.67	2601.94	1073.0	1728.1	2801.1	2.7688	3.3205	6.0893
39.00	248.90	0.001249	0.049665	0.050913	1075.83	1526.31	2602.14	1080.7	1720.0	2800.7	2.7831	3.2952	6.0783
40.00	250.40	0.001252	0.048419	0.049671	1082.49	1519.22	2601.72	1087.5	1712.9	2800.4	2.7970	3.2711	6.0681
41.00	251.81	0.001256	0.047216	0.048471	1089.35	1511.72	2601.07	1094.5	1705.3	2799.8	2.8098	3.2482	6.0580
42.00	253.30	0.001260	0.045918	0.047178	1096.41	1504.84	2601.25	1101.7	1697.7	2799.4	2.8233	3.2243	6.0476
43.00	254.69	0.001262	0.044844	0.046106	1103.27	1497.37	2600.65	1108.7	1690.2	2798.9	2.8365	3.2015	6.0380
44.00	256.05	0.001266	0.043797	0.045063	1109.83	1490.09	2599.92	1115.4	1682.8	2798.2	2.8486	3.1799	6.0285
45.00	257.48	0.001270	0.042693	0.043942	1116.69	1483.17	2599.86	1122.4	1675.2	2797.6	2.8613	3.1574	6.0187
46.00	258.77	0.001272	0.041729	0.043001	1122.95	1476.35	2599.29	1128.8	1668.3	2797.1	2.8738	3.1357	6.0095
47.00	260.08	0.001276	0.040803	0.042079	1129.21	1469.32	2598.53	1135.2	1661.1	2796.3	2.8854	3.1150	6.0004
48.00	261.40	0.001279	0.039826	0.041105	1135.66	1462.63	2598.30	1141.8	1653.8	2795.6	2.8974	3.0938	5.9912
49.00	262.66	0.001283	0.038982	0.040265	1141.91	1455.69	2597.60	1148.2	1646.7	2794.9	2.9093	3.0731	5.9824
50.00	263.99	0.001287	0.038070	0.039356	1148.27	1449.15	2597.42	1154.7	1639.5	2794.2	2.9212	3.0522	5.9734

TABLE 1

Pressure in bar	Temp. in °C	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
51.00	265.16	0.001289	0.037301	0.038590	1154.23	1442.26	2596.49	1160.8	1632.5	2793.3	2.9318	3.0326	5.9644
52.00	266.42	0.001292	0.036450	0.037742	1160.38	1435.86	2596.24	1167.1	1625.4	2792.5	2.9432	3.0122	5.9554
53.00	267.59	0.001296	0.035741	0.037037	1166.13	1429.37	2595.50	1173.0	1618.8	2791.8	2.9544	2.9932	5.9476
54.00	268.82	0.001300	0.034946	0.036245	1172.28	1422.99	2595.28	1179.3	1611.7	2791.0	2.9657	2.9733	5.9390
55.00	269.95	0.001302	0.034295	0.035597	1177.74	1416.48	2594.22	1184.9	1605.1	2790.0	2.9762	2.9543	5.9305
56.00	271.15	0.001305	0.033552	0.034857	1183.49	1410.41	2593.90	1190.8	1598.3	2789.1	2.9872	2.9348	5.9220
57.00	272.25	0.001309	0.032947	0.034255	1189.24	1403.40	2592.65	1196.7	1591.2	2787.9	2.9967	2.9180	5.9147
58.00	273.35	0.001312	0.032338	0.033651	1194.79	1397.04	2591.83	1202.4	1584.6	2787.0	3.0071	2.8995	5.9066
59.00	274.48	0.001316	0.031687	0.033003	1200.44	1390.95	2591.38	1208.2	1577.9	2786.1	3.0175	2.8810	5.8985
60.00	275.64	0.001319	0.031036	0.032355	1206.08	1384.89	2590.97	1214.0	1571.1	2785.1	3.0280	2.8624	5.8904
61.00	276.65	0.001322	0.030510	0.031831	1211.24	1378.49	2589.73	1219.3	1564.6	2783.9	3.0376	2.8454	5.8830
62.00	277.75	0.001325	0.029900	0.031225	1216.79	1372.52	2589.31	1225.0	1557.9	2782.9	3.0477	2.8274	5.8751
63.00	278.77	0.001328	0.029404	0.030733	1222.13	1366.15	2588.28	1230.5	1551.4	2781.9	3.0571	2.8107	5.8678
64.00	279.84	0.001332	0.028833	0.030164	1227.58	1360.27	2587.85	1236.1	1544.8	2780.9	3.0671	2.7930	5.8601
65.00	280.83	0.001335	0.028366	0.029701	1232.32	1354.22	2486.54	1241.0	1538.6	2779.6	3.0762	2.7763	5.8525
66.00	281.88	0.001338	0.027830	0.029168	1237.57	1348.42	2585.99	1246.4	1532.1	2778.5	3.0859	2.7589	5.8448
67.00	282.85	0.001342	0.027387	0.028728	1243.01	1341.71	2584.72	1252.0	1525.2	2777.2	3.0948	2.7428	5.8376
68.00	283.87	0.001345	0.026884	0.028229	1248.25	1335.79	2584.04	1257.4	1518.6	2776.0	3.1042	2.7259	5.8301
69.00	284.82	0.001348	0.026461	0.027809	1252.90	1329.92	2582.82	1262.2	1512.5	2774.7	3.1130	2.7101	5.8231
70.00	285.88	0.001351	0.025990	0.027341	1257.94	1324.07	2582.01	1267.4	1506.0	2773.4	3.1222	2.6936	5.8158
71.00	286.75	0.001354	0.025586	0.026941	1262.88	1318.14	2581.02	1272.5	1499.8	2772.3	3.1308	2.6782	5.8090
72.00	287.72	0.001358	0.025143	0.026501	1267.93	1312.27	2580.20	1277.7	1493.3	2771.0	3.1398	2.6621	5.8019
73.00	288.69	0.001361	0.024700	0.026061	1272.97	1306.59	2579.56	1282.9	1486.9	2769.8	3.1487	2.6460	5.7947
74.00	289.59	0.001365	0.024338	0.025703	1277.60	1300.60	2578.20	1287.7	1480.7	2768.4	3.1570	2.6312	5.7882
75.00	290.53	0.001368	0.023921	0.025289	1282.44	1294.99	2577.43	1292.7	1474.4	2767.1	3.1657	2.6155	5.7812
76.00	291.41	0.001371	0.023574	0.024944	1287.28	1288.74	2576.02	1297.7	1467.9	2765.6	3.1743	2.6000	5.7743
77.00	292.33	0.001374	0.023182	0.024556	1292.12	1283.10	2575.22	1302.7	1461.6	2764.3	3.1830	2.5843	5.7673
78.00	293.26	0.001377	0.022790	0.024167	1296.96	1277.44	2574.40	1307.7	1455.2	2762.9	3.1917	2.5687	5.7604
79.00	294.10	0.001381	0.022475	0.023855	1301.39	1271.55	2572.94	1312.3	1449.1	2761.4	3.1997	2.5543	5.7540
80.00	295.06	0.001384	0.022106	0.023490	1306.13	1265.95	2572.08	1317.2	1442.8	2760.0	3.2082	2.5390	5.7472
81.00	295.84	0.001388	0.021799	0.023187	1310.56	1260.33	2570.89	1321.8	1436.9	2758.7	3.2156	2.5248	5.7404
82.00	296.72	0.001391	0.021452	0.022843	1315.19	1254.40	2569.59	1326.6	1430.3	2756.9	3.2237	2.5099	5.7336
83.00	297.60	0.001395	0.021105	0.022499	1319.73	1249.03	2568.76	1331.3	1424.2	2755.5	3.2318	2.4951	5.7269
84.00	298.40	0.001398	0.020824	0.022222	1324.26	1243.18	2567.44	1336.0	1418.1	2754.1	3.2403	2.4803	5.7206
85.00	299.26	0.001401	0.020497	0.021898	1328.89	1237.67	2566.57	1340.8	1411.9	2752.7	3.2486	2.4654	5.7140

Pressure in bar	Temp. in °C	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
86.00	300.06	0.001404	0.020222	0.021626	1333.42	1231.39	2564.81	1345.5	1405.3	2750.8	3.2558	2.4520	5.7078
87.00	300.90	0.001408	0.019914	0.021322	1337.95	1225.85	2563.80	1350.2	1399.1	2749.3	3.2637	2.4376	5.7013
88.00	301.73	0.001411	0.019606	0.021017	1342.48	1220.27	2562.75	1354.9	1392.8	2747.7	3.2716	2.4233	5.6949
89.00	302.51	0.001415	0.019352	0.020766	1346.71	1214.67	2561.38	1359.3	1386.9	2746.2	3.2789	2.4095	5.6884
90.00	303.40	0.001418	0.019061	0.020479	1351.14	1209.25	2560.39	1363.9	1380.8	2744.7	3.2866	2.3954	5.6820
91.00	304.14	0.001421	0.018771	0.020192	1355.57	1203.89	2559.45	1368.5	1374.7	2743.2	3.2943	2.3812	5.6755
92.00	304.89	0.001425	0.018534	0.019959	1359.69	1198.18	2557.88	1372.8	1368.7	2741.5	3.3018	2.3678	5.6696
93.00	305.69	0.001428	0.018260	0.019688	1364.02	1192.78	2556.80	1377.3	1362.6	2739.9	3.3095	2.3537	5.6632
94.00	306.49	0.001431	0.017986	0.019417	1368.35	1187.43	2555.78	1381.8	1356.5	2738.3	3.3172	2.3397	5.6569
95.00	307.21	0.001435	0.017769	0.019204	1372.57	1181.29	2553.86	1386.2	1350.1	2736.3	3.3241	2.3266	5.6507
96.00	307.99	0.001439	0.017511	0.018950	1376.79	1175.90	2552.68	1390.6	1344.0	2734.6	3.3316	2.3128	5.6444
97.00	308.76	0.001442	0.017253	0.018695	1381.11	1170.45	2551.56	1395.1	1337.8	2732.9	3.3390	2.2991	5.6381
98.00	309.49	0.001445	0.017043	0.018488	1385.14	1164.98	2550.11	1399.3	1332.0	2731.3	3.3460	2.2863	5.6323
99.00	310.25	0.001449	0.016798	0.018247	1389.36	1159.60	2548.96	1403.7	1325.9	2729.6	3.3533	2.2728	5.6261
100.00	311.06	0.001452	0.016553	0.018005	1393.48	1154.37	2547.85	1408.0	1319.9	2727.9	3.3606	2.2593	5.6199
101.00	311.71	0.001456	0.016358	0.017814	1397.59	1148.59	2546.18	1412.3	1313.8	2726.1	3.3678	2.2460	5.6138
102.00	312.45	0.001460	0.016126	0.017585	1401.81	1143.22	2545.03	1416.7	1307.7	2724.4	3.3751	2.2325	5.6076
103.00	313.19	0.001463	0.015894	0.017357	1406.03	1137.89	2543.92	1421.1	1301.6	2722.7	3.3824	2.2190	5.6014
104.00	313.86	0.001466	0.015713	0.017179	1410.05	1131.89	2541.94	1425.3	1295.3	2720.6	3.3890	2.2064	5.5954
105.00	314.59	0.001470	0.015494	0.016964	1414.17	1126.41	2540.58	1429.6	1289.1	2718.7	3.3961	2.1931	5.5892
106.00	315.31	0.001473	0.015276	0.016749	1418.28	1121.08	2539.36	1433.9	1283.0	2716.9	3.4031	2.1800	5.5831
107.00	315.98	0.001478	0.015097	0.016575	1422.09	1115.56	2537.65	1437.9	1277.1	2715.0	3.4097	2.1677	5.5774
108.00	316.69	0.001482	0.014889	0.016371	1426.20	1110.10	2536.29	1442.2	1270.9	2713.1	3.4167	2.1547	5.5714
109.00	317.40	0.001486	0.014681	0.016167	1430.21	1104.77	2534.98	1446.4	1264.8	2711.2	3.4236	2.1418	5.5654
110.00	318.05	0.001488	0.014515	0.016004	1434.13	1099.13	2533.26	1450.5	1258.8	2709.3	3.4305	2.1289	5.5594
111.00	318.74	0.001492	0.014319	0.015811	1438.14	1093.76	2531.90	1454.7	1252.7	2707.4	3.4374	2.1160	5.5534
112.00	319.44	0.001495	0.014123	0.015618	1442.15	1088.43	2530.58	1458.9	1246.6	2705.5	3.4443	2.1031	5.5474
113.00	320.08	0.001500	0.013959	0.015459	1446.15	1082.66	2528.81	1463.1	1240.4	2703.5	3.4507	2.0911	5.5418
114.00	320.75	0.001504	0.013773	0.015276	1450.06	1077.39	2527.45	1467.2	1234.4	2701.6	3.4574	2.0786	5.5360
115.00	321.43	0.001508	0.013586	0.015094	1454.06	1072.06	2526.12	1471.4	1228.3	2699.7	3.4642	2.0659	5.5301
116.00	322.11	0.001511	0.013399	0.014911	1458.07	1066.77	2524.84	1475.6	1222.2	2697.8	3.4710	2.0532	5.5242
117.00	322.72	0.001515	0.013255	0.014769	1461.88	1060.82	2522.70	1479.6	1215.9	2695.5	3.4776	2.0403	5.5179
118.00	323.38	0.001518	0.013078	0.014597	1465.88	1055.38	2521.26	1483.8	1209.7	2693.5	3.4843	2.0277	5.5120
119.00	324.04	0.001522	0.012902	0.014424	1469.79	1050.07	2519.86	1487.9	1203.6	2691.5	3.4910	2.0150	5.5060
120.00	324.65	0.001527	0.012755	0.014282	1473.48	1044.24	2517.72	1491.8	1197.3	2689.1	3.4972	2.0028	5.5000

TABLE 1

Pressure in bar	Temp. in °C	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evpara- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
121.00	325.29	0.001531	0.012586	0.014117	1477.28	1038.91	2516.18	1495.8	1191.2	2687.0	3.5038	1.9902	5.4940
122.00	325.94	0.001535	0.012418	0.013953	1481.17	1033.50	2514.68	1499.9	1185.0	2684.9	3.5104	1.9776	5.4880
123.00	326.59	0.001539	0.012249	0.013788	1485.07	1028.13	2513.21	1504.0	1178.8	2682.8	3.5170	1.9651	5.4821
124.00	327.17	0.001543	0.012118	0.013660	1488.77	1022.54	2511.31	1507.9	1172.8	2680.7	3.5234	1.9533	5.4767
125.00	327.89	0.001546	0.011958	0.013504	1492.57	1017.13	2509.70	1511.9	1166.6	2678.5	3.5299	1.9410	5.4709
126.00	328.43	0.001550	0.011798	0.013348	1496.46	1011.75	2508.21	1516.0	1160.4	2676.4	3.5365	1.9285	5.4650
127.00	329.09	0.001555	0.011666	0.013220	1500.16	1005.94	2506.10	1519.9	1154.1	2674.0	3.5425	1.9163	5.4588
128.00	329.63	0.001559	0.011513	0.013072	1504.05	1000.43	2504.48	1524.0	1147.8	2671.8	3.5489	1.9039	5.4528
129.00	330.25	0.001563	0.011361	0.012923	1507.84	995.05	2502.89	1528.0	1141.6	2669.6	3.5553	1.8916	5.4469
130.00	330.87	0.001567	0.011208	0.012775	1511.63	989.70	2501.33	1532.0	1135.4	2667.4	3.5617	1.8793	5.4410
131.00	331.43	0.001572	0.011086	0.012658	1515.51	983.27	2498.79	1536.1	1128.5	2664.6	3.5680	1.8667	5.4347
132.00	332.03	0.001576	0.010941	0.012517	1519.40	977.68	2497.08	1540.2	1122.1	2662.3	3.5743	1.8543	5.4286
133.00	332.63	0.001580	0.010795	0.012376	1523.18	972.12	2495.31	1544.2	1115.7	2659.9	3.5807	1.8419	5.4226
134.00	333.24	0.001584	0.010650	0.012234	1526.97	966.69	2493.66	1548.2	1109.4	2657.6	3.5871	1.8295	5.4166
135.00	333.78	0.001588	0.010535	0.012123	1530.46	960.78	2491.24	1551.9	1103.0	2654.9	3.5933	1.8173	5.4106
136.00	334.37	0.001592	0.010396	0.011989	1534.14	955.31	2489.46	1555.8	1096.7	2652.5	3.5997	1.8049	5.4046
137.00	334.96	0.001596	0.010258	0.011854	1537.93	949.77	2487.70	1559.8	1090.3	2650.1	3.6060	1.7926	5.3986
138.00	335.55	0.001601	0.010119	0.011720	1541.61	944.36	2485.97	1563.7	1084.0	2647.7	3.6123	1.7803	5.3926
139.00	336.07	0.001606	0.010009	0.011614	1545.28	938.28	2483.56	1567.6	1077.4	2645.0	3.6180	1.7687	5.3867
140.00	336.66	0.001610	0.009876	0.011486	1548.96	932.74	2481.70	1571.5	1071.0	2642.5	3.6242	1.7565	5.3807
141.00	337.24	0.001615	0.009743	0.011358	1552.63	927.22	2479.86	1575.4	1064.6	2640.0	3.6304	1.7443	5.3747
142.00	337.82	0.001619	0.009610	0.011229	1556.41	921.63	2478.04	1579.4	1058.1	2637.5	3.6366	1.7322	5.3688
143.00	338.33	0.001624	0.009507	0.011131	1560.17	915.16	2475.33	1583.4	1051.1	2634.5	3.6427	1.7192	5.3619
144.00	338.89	0.001629	0.009380	0.011009	1563.94	909.43	2473.38	1587.4	1044.5	2631.9	3.6488	1.7069	5.3557
145.00	339.46	0.001634	0.009253	0.010886	1567.71	903.73	2471.45	1591.4	1037.9	2629.3	3.6550	1.6945	5.3495
146.00	340.02	0.001638	0.009126	0.010764	1571.38	898.16	2469.54	1595.3	1031.4	2626.7	3.6612	1.6822	5.3434
147.00	340.52	0.001643	0.009027	0.010670	1574.95	891.70	2466.65	1599.1	1024.4	2623.5	3.6677	1.6692	5.3369
148.00	341.08	0.001648	0.008906	0.010553	1578.71	885.90	2464.61	1603.1	1017.7	2620.8	3.6739	1.6567	5.3306
149.00	341.63	0.001652	0.008785	0.010437	1582.38	880.10	2462.49	1607.0	1011.0	2618.0	3.6802	1.6442	5.3244
150.00	342.24	0.001657	0.008663	0.010320	1586.04	874.45	2460.50	1610.9	1004.4	2615.3	3.6864	1.6317	5.3181
151.00	342.67	0.001663	0.008567	0.010230	1589.79	867.84	2457.63	1614.9	997.2	2612.1	3.6919	1.6197	5.3116
152.00	343.21	0.001668	0.008451	0.010119	1593.55	861.94	2455.50	1618.9	990.4	2609.3	3.6980	1.6073	5.3053
153.00	343.75	0.001672	0.008428	0.010100	1597.21	854.76	2451.97	1622.8	983.7	2606.5	3.7041	1.5949	5.2990
154.00	344.28	0.001677	0.008219	0.009896	1600.97	850.23	2451.20	1626.8	976.8	2603.6	3.7102	1.5825	5.2927
155.00	344.77	0.001683	0.008125	0.009808	1604.51	843.76	2448.27	1630.6	969.7	2600.3	3.7166	1.5690	5.2856

Pressure in bar	Temp. in °C	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
156.00	345.30	0.001688	0.008014	0.009702	1608.17	837.88	2446.05	1634.5	962.9	2597.4	3.7228	1.5564	5.2792
157.00	345.82	0.001693	0.007903	0.009596	1611.82	832.03	2443.85	1638.4	956.1	2594.5	3.7290	1.5437	5.2727
158.00	346.35	0.001698	0.007791	0.009489	1615.57	826.00	2441.57	1642.4	949.1	2591.5	3.7351	1.5312	5.2663
159.00	346.82	0.001705	0.007701	0.009405	1619.50	819.16	2438.66	1646.6	941.6	2588.2	3.7411	1.5185	5.2596
160.00	347.34	0.001710	0.007594	0.009304	1623.24	813.00	2436.24	1650.6	934.5	2585.1	3.7472	1.5059	5.2531
161.00	347.85	0.001715	0.007487	0.009202	1626.98	806.96	2433.95	1654.6	927.5	2582.1	3.7533	1.4933	5.2466
162.00	348.37	0.001721	0.007380	0.009100	1630.72	800.95	2431.67	1658.6	920.5	2579.1	3.7595	1.4805	5.2400
163.00	348.89	0.001726	0.007273	0.008999	1634.46	794.95	2429.42	1662.6	913.5	2576.1	3.7656	1.4679	5.2335
164.00	349.34	0.001733	0.007190	0.008923	1637.98	787.69	2425.67	1666.4	905.6	2572.0	3.7714	1.4554	5.2268
165.00	349.84	0.001739	0.007087	0.008826	1641.61	781.56	2423.17	1670.3	898.5	2568.8	3.7775	1.4428	5.2203
166.00	350.34	0.001744	0.006985	0.008729	1645.34	775.35	2420.70	1674.3	891.3	2565.6	3.7836	1.4301	5.2137
167.00	350.85	0.001750	0.006882	0.008632	1648.98	769.26	2418.24	1678.2	884.2	2562.4	3.7897	1.4175	5.2072
168.00	351.30	0.001757	0.006795	0.008553	1653.48	761.54	2415.02	1683.0	875.7	2558.7	3.7974	1.4021	5.1995
169.00	351.79	0.001763	0.006696	0.008459	1657.41	755.03	2412.44	1687.2	868.2	2555.4	3.8038	1.3889	5.1927
170.00	352.28	0.001769	0.006597	0.008366	1661.23	748.65	2409.88	1691.3	860.8	2552.1	3.8102	1.3758	5.1860
171.00	352.78	0.001775	0.006498	0.008273	1665.05	742.29	2407.34	1695.4	853.4	2548.8	3.8166	1.3626	5.1792
172.00	353.27	0.001781	0.006398	0.008179	1668.87	735.95	2404.82	1699.5	846.0	2545.5	3.8230	1.3494	5.1724
173.00	353.70	0.001789	0.006312	0.008101	1673.85	726.80	2400.65	1704.8	836.0	2540.8	3.8305	1.3336	5.1641
174.00	354.18	0.001795	0.006215	0.008010	1677.86	719.96	2397.82	1709.1	828.1	2537.2	3.8371	1.3199	5.1570
175.00	354.75	0.001802	0.006118	0.007920	1681.87	713.13	2395.00	1713.4	820.2	2533.6	3.8438	1.3061	5.1499
176.00	355.14	0.001808	0.006021	0.007829	1685.98	706.23	2392.21	1717.8	812.2	2530.0	3.8504	1.2924	5.1428
177.00	355.57	0.001818	0.006008	0.007825	1689.73	697.47	2387.20	1721.9	803.8	2525.7	3.8571	1.2781	5.1352
178.00	356.04	0.001825	0.005840	0.007665	1693.72	691.74	2385.46	1726.2	795.7	2521.9	3.8638	1.2643	5.1281
179.00	356.52	0.001832	0.005746	0.007577	1697.62	684.95	2382.57	1730.4	787.8	2518.2	3.8704	1.2505	5.1209
180.00	356.99	0.001839	0.005651	0.007490	1701.61	677.98	2379.59	1734.7	779.7	2514.4	3.8771	1.2366	5.1137
181.00	357.46	0.001846	0.005557	0.007402	1705.60	671.13	2376.72	1739.0	771.7	2510.7	3.8837	1.2228	5.1065
182.00	357.87	0.001856	0.005475	0.007330	1709.73	662.56	2372.29	1743.5	762.2	2505.7	3.8896	1.2080	5.0976
183.00	358.33	0.001863	0.005383	0.007246	1713.70	655.40	2369.10	1747.8	753.9	2501.7	3.8961	1.1940	5.0901
184.00	358.79	0.001871	0.005291	0.007161	1717.78	648.15	2365.93	1752.2	745.5	2497.7	3.9025	1.1801	5.0826
185.00	359.25	0.001878	0.005198	0.007077	1721.75	641.03	2362.78	1756.5	737.2	2493.7	3.9090	1.1660	5.0750
186.00	359.71	0.001886	0.005106	0.006992	1725.72	633.92	2359.64	1760.8	728.9	2489.7	3.9155	1.1520	5.0675
187.00	360.11	0.001898	0.005022	0.006920	1729.91	625.00	2354.90	1765.4	718.9	2484.3	3.9226	1.1356	5.0582
188.00	360.56	0.001906	0.004931	0.006837	1733.86	617.60	2351.46	1769.7	710.3	2480.0	3.9292	1.1211	5.0503
189.00	361.01	0.001915	0.004840	0.006755	1737.91	610.12	2348.03	1774.1	701.6	2475.7	3.9358	1.1067	5.0425
190.00	361.46	0.001923	0.004806	0.006729	1741.96	601.59	2343.55	1778.5	692.9	2471.4	3.9424	1.0922	5.0346

TABLE 1

Pressure in bar	Temp. in °C	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
191.00	361.91	0.001932	0.004659	0.006591	1745.90	595.42	2341.32	1782.8	684.4	2467.2	3.9490	1.0777	5.0267
192.00	362.30	0.001946	0.004572	0.006517	1750.24	585.63	2335.87	1787.6	673.4	2461.0	3.9565	1.0594	5.0159
193.00	362.74	0.001955	0.004481	0.006437	1754.36	577.81	2332.17	1792.1	664.3	2456.4	3.9633	1.0442	5.0075
194.00	363.18	0.001965	0.004392	0.006356	1758.39	570.00	2328.39	1796.5	655.2	2451.7	3.9700	1.0291	4.9991
195.00	363.62	0.001974	0.004301	0.006276	1762.51	562.22	2324.73	1801.0	646.1	2447.1	3.9768	1.0139	4.9907
196.00	364.06	0.001984	0.004211	0.006195	1766.52	554.56	2321.08	1805.4	637.1	2442.5	3.9836	0.9986	4.9822
197.00	364.49	0.001993	0.004121	0.006114	1770.64	546.71	2317.35	1809.9	627.9	2437.8	3.9904	0.9834	4.9738
198.00	364.87	0.002011	0.004027	0.006038	1776.38	534.36	2310.74	1816.2	614.1	2430.3	3.9991	0.9625	4.9616
199.00	365.30	0.002022	0.003937	0.005958	1780.67	525.96	2306.63	1820.9	604.3	2425.2	4.0062	0.9464	4.9526
200.00	365.81	0.002033	0.003846	0.005879	1785.05	517.48	2302.53	1825.7	594.4	2420.1	4.0133	0.9303	4.9436
201.00	366.15	0.002043	0.003755	0.005799	1789.33	509.02	2298.35	1830.4	584.5	2414.9	4.0204	0.9141	4.9345
202.00	366.58	0.002054	0.003665	0.005719	1793.71	500.57	2294.28	1835.2	574.6	2409.8	4.0275	0.8980	4.9255
203.00	366.95	0.002077	0.003656	0.005633	1800.04	485.82	2285.86	1842.2	558.0	2400.2	4.0388	0.8714	4.9102
204.00	367.37	0.002090	0.003462	0.005552	1804.67	476.37	2281.05	1847.3	547.0	2394.3	4.0466	0.8535	4.9001
205.00	367.78	0.002102	0.003368	0.005471	1809.30	467.05	2276.35	1852.4	536.1	2388.5	4.0544	0.8356	4.8900
206.00	368.20	0.002115	0.003275	0.005390	1813.93	457.64	2271.57	1857.5	525.1	2382.6	4.0622	0.8177	4.8799
207.00	368.62	0.002128	0.003181	0.005309	1818.55	448.35	2266.90	1862.6	514.2	2376.8	4.0700	0.7999	4.8699
208.00	368.98	0.002161	0.003045	0.005206	1827.46	428.66	2256.12	1872.4	492.0	2364.4	4.0838	0.7664	4.8502
209.00	369.39	0.002177	0.002944	0.005121	1832.90	417.46	2250.37	1878.4	479.0	2357.4	4.0926	0.7458	4.8384
210.00	369.80	0.002193	0.002843	0.005036	1838.25	406.28	2244.54	1884.3	465.9	2350.3	4.1015	0.7251	4.8266
211.00	370.21	0.002210	0.002742	0.004952	1843.68	395.14	2238.82	1890.3	453.0	2343.3	4.1103	0.7045	4.8148
212.00	370.62	0.002226	0.002641	0.004867	1849.01	384.11	2233.13	1896.2	440.1	2336.3	4.1192	0.6839	4.8031
213.00	371.03	0.002242	0.002540	0.004782	1854.34	373.10	2227.45	1902.1	427.2	2329.3	4.1280	0.6633	4.7913
214.00	371.11	0.002293	0.002415	0.004708	1869.73	351.51	2221.24	1918.8	403.2	2322.0	4.1581	0.6219	4.7800
215.00	371.12	0.002304	0.002427	0.004730	1878.17	322.94	2201.11	1927.7	375.1	2302.8	4.1775	0.5727	4.7502
216.00	371.12	0.002315	0.002438	0.004752	1896.71	287.35	2184.06	1936.7	350.0	2286.7	4.1970	0.5282	4.7252
217.00	372.54	0.002416	0.001858	0.004275	1898.17	277.47	2175.64	1950.6	317.8	2268.4	4.2019	0.4950	4.6969
218.00	372.93	0.002452	0.001708	0.004160	1907.45	257.57	2165.02	1960.9	294.8	2255.7	4.2174	0.4567	4.6741
219.00	373.32	0.002487	0.001558	0.004045	1916.83	237.69	2154.51	1971.3	271.8	2243.1	4.2329	0.4208	4.6537
220.00	373.69	0.002693	0.001010	0.003703	1955.85	154.08	2109.93	2015.1	176.3	2191.4	4.3008	0.2725	4.5733
221.00	374.07	0.003053	0.000235	0.003288	2017.74	36.01	2053.74	2085.2	41.2	2126.4	4.4088	0.0637	4.4725
221.20	374.15	0.003170	0.000000	0.003170	2037.28	0.00	2037.28	2107.4	0.0	2107.4	4.4430	0.0000	4.4430

**TABLE 2**  
**Saturated steam and water table (temperature based)**

Temp. in °C	Pressure in 'bars'	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
0-01	0-006112	0-0010002	206-159	206-16	0-00	2375-60	2375-60	0-00	2501-6	2501-6	0-0000	9-1575	9-1575
1	0-00657	0-0010001	192-609	192-61	4-17	2372-76	2376-93	4-17	2499-2	2503-4	0-0153	9-1158	9-1311
2	0-00706	0-0010001	179-919	179-92	8-39	2369-88	2378-27	8-39	2496-8	2505-2	0-0306	9-0741	9-1047
3	0-00758	0-0010001	168-169	168-17	12-60	2367-11	2379-71	12-60	2494-5	2507-1	0-0459	9-0326	9-0785
4	0-00813	0-0010000	157-269	157-27	16-80	2364-26	2381-06	16-80	2492-1	2508-9	0-0611	8-9915	9-0526
5	0-00872	0-0010000	147-159	147-16	21-01	2361-40	2382-41	21-01	2489-7	2510-7	0-0762	8-9507	9-0269
6	0-00935	0-0010000	137-779	137-78	25-21	2358-64	2383-84	25-21	2487-4	2512-6	0-0913	8-9102	9-0015
7	0-01001	0-0010001	129-059	129-06	29-41	2355-78	2385-19	29-41	2485-0	2514-4	0-1063	8-8699	8-9762
8	0-01072	0-0010001	120-969	120-97	33-60	2352-92	2386-52	33-60	2482-6	2516-2	0-1213	8-8300	8-9513
9	0-01147	0-0010002	113-439	113-44	37-80	2350-16	2387-96	37-80	2480-3	2518-1	0-1362	8-7903	8-9265
10	0-01227	0-0010003	106-429	106-43	41-99	2347-32	2389-31	41-99	2477-9	2519-9	0-1510	8-7510	8-9020
11	0-01312	0-0010003	99-908	99-91	46-19	2344-47	2390-66	46-19	2475-5	2521-7	0-1658	8-7118	8-8776
12	0-01401	0-0010004	93-834	93-84	50-38	2341-72	2392-10	50-38	2473-2	2523-6	0-1805	8-6731	8-8536
13	0-01497	0-0010006	88-175	88-18	54-57	2338-88	2393-44	54-57	2470-8	2525-4	0-1952	8-6345	8-8297
14	0-01597	0-0010007	82-899	82-90	58-75	2336-04	2394-78	58-75	2468-5	2527-2	0-2098	8-5962	8-8060
15	0-01704	0-0010008	77-977	77-98	62-94	2333-29	2396-23	62-94	2466-2	2529-1	0-2243	8-5583	8-7826
16	0-01817	0-0010010	73-383	73-38	67-13	2330-45	2397-58	67-13	2463-8	2530-9	0-2388	8-5205	8-7593
17	0-01936	0-0010012	69-094	69-10	71-31	2327-61	2398-92	71-31	2461-4	2532-7	0-2533	8-4830	8-7363
18	0-02062	0-0010013	65-086	65-09	75-50	2324-77	2400-26	75-50	2459-0	2534-5	0-2677	8-4458	8-7135
19	0-02196	0-0010015	61-340	61-34	79-68	2322-04	2401-71	79-68	2456-7	2536-4	0-2820	8-4088	8-6908
20	0-02337	0-0010017	57-837	57-84	83-86	2319-20	2403-06	83-86	2454-3	2538-2	0-2963	8-3721	8-6684
21	0-02485	0-0010019	54-540	54-54	88-04	2316-41	2404-45	88-04	2452-0	2540-0	0-3105	8-3357	8-6462
22	0-02642	0-0010022	51-491	51-49	92-23	2313-52	2405-75	92-23	2449-6	2541-8	0-3247	8-2994	8-6241
23	0-02808	0-0010024	48-618	48-62	96-41	2310-69	2407-10	96-41	2447-2	2543-6	0-3389	8-2634	8-6023
24	0-02982	0-0010026	45-925	45-93	100-59	2307-96	2408-54	100-59	2444-9	2545-5	0-3530	8-2276	8-5806
25	0-03166	0-0010029	43-401	43-40	108-77	2301-12	2409-89	108-77	2438-5	2547-3	0-3670	8-1922	8-5592
26	0-03360	0-0010032	41-033	41-034	110-95	2300-29	2411-24	110-95	2438-2	2549-1	0-3810	8-1569	8-5379
27	0-03564	0-0010034	38-812	38-813	113-13	2299-46	2412-59	113-13	2437-8	2550-9	0-3949	8-1159	8-5108
28	0-03778	0-0010037	36-727	36-728	117-31	2296-63	2413-93	117-31	2435-4	2552-7	0-4088	8-0871	8-4959
29	0-04004	0-0010040	34-768	34-769	121-48	2293-81	2415-28	121-48	2433-0	2554-5	0-4227	8-0524	8-4751
30	0-04242	0-0010043	32-928	32-929	125-66	2291-08	2416-73	125-66	2430-7	2556-4	0-4365	8-0181	8-4546

TABLE 2

Temp. in °C	Pressure in 'bars'	Specific volume in m <sup>3</sup> /kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
31	0.04491	0.0010046	32.198	32.199	129.84	2288.37	2417.85	129.84	2428.4	2558.2	0.4503	7.9839	8.4342
32	0.04753	0.0010049	29.571	29.572	134.01	2285.45	2419.44	134.02	2426.0	2560.0	0.4640	7.9500	8.4140
33	0.05029	0.0010053	28.041	28.042	138.19	2282.59	2420.78	138.20	2423.6	2561.8	0.4777	7.9162	8.3939
34	0.05318	0.0010056	26.600	26.601	142.37	2279.76	2422.14	142.38	2421.2	2563.6	0.4913	7.8827	8.3740
35	0.05622	0.0010060	25.244	25.245	146.55	2276.93	2423.48	146.56	2418.8	2565.4	0.5049	7.8494	8.3543
36	0.05940	0.0010063	23.966	23.967	150.73	2274.10	2424.84	150.74	2416.5	2567.2	0.5184	7.8164	8.3348
37	0.06274	0.0010067	22.762	22.763	154.91	2271.27	2426.19	154.92	2414.1	2569.0	0.5319	7.7835	8.3154
38	0.06624	0.0010070	21.626	21.627	159.08	2268.46	2427.54	159.09	2411.7	2570.8	0.5453	7.7509	8.2962
39	0.06991	0.0010074	20.556	20.557	163.26	2265.63	2428.89	163.27	2409.3	2572.6	0.5588	7.7184	8.2772
40	0.07375	0.0010078	19.545	19.546	167.44	2262.81	2430.25	167.45	2407.0	2574.4	0.5721	7.6862	8.2583
41	0.07777	0.0010082	18.591	18.592	171.62	2259.98	2431.60	171.63	2404.6	2576.2	0.5854	7.6541	8.2395
42	0.08199	0.0010086	17.691	17.692	175.80	2257.15	2432.95	175.81	2402.2	2578.0	0.5967	7.6242	8.2209
43	0.08639	0.0010090	16.840	16.841	179.98	2254.33	2434.31	179.99	2399.8	2579.8	0.6120	7.5905	8.2025
44	0.09100	0.0010094	16.035	16.036	184.16	2251.41	2435.57	184.17	2397.3	2581.5	0.6252	7.5590	8.1842
45	0.09582	0.0010099	15.275	15.276	188.34	2248.59	2436.93	188.35	2395.0	2583.3	0.6383	7.5278	8.1661
46	0.10086	0.0010103	14.556	14.557	192.52	2245.76	2438.28	192.53	2392.6	2585.1	0.6514	7.4967	8.1481.
47	0.10612	0.0010107	13.876	13.877	196.70	2242.94	2439.64	196.71	2390.2	2586.9	0.6645	7.4657	8.1302
48	0.11162	0.0010112	13.232	13.233	200.88	2240.01	2440.89	200.89	2387.7	2588.6	0.6776	7.4349	8.1125
49	0.11736	0.0010117	12.622	12.623	205.06	2237.20	2442.26	205.07	2385.3	2590.4	0.6906	7.4044	8.0950
50	0.12335	0.0010121	12.045	12.046	209.25	2234.37	2443.61	209.26	2382.9	2592.2	0.7035	7.3741	8.0776
51	0.12961	0.0010126	11.498	11.499	213.43	2231.43	2444.86	213.44	2380.5	2593.9	0.7164	7.3439	8.0603
52	0.13613	0.0010131	10.979	10.980	217.61	2228.62	2446.23	217.62	2378.1	2595.7	0.7293	7.3139	8.0432
53	0.14293	0.0010136	10.487	10.488	221.79	2225.81	2447.60	221.80	2375.7	2597.5	0.7422	7.2840	8.0262
54	0.15002	0.0010140	10.021	10.022	225.97	2222.88	2448.85	225.99	2373.2	2599.2	0.7550	7.2543	8.0093
55	0.15741	0.0010145	9.578	9.5789	230.15	2220.06	2450.22	230.17	2370.8	2601.0	0.7677	7.2249	7.9926
56	0.16511	0.0010150	9.158	9.1587	234.33	2217.15	2451.48	234.35	2368.4	2602.7	0.7804	7.1955	7.9759
57	0.17313	0.0010156	8.759	8.7598	238.52	2214.32	2452.84	238.54	2366.0	2604.5	0.7931	7.1664	7.9595
58	0.18147	0.0010161	8.380	8.3808	242.70	2211.41	2454.11	242.72	2363.5	2606.2	0.8058	7.1373	7.9431
59	0.19016	0.0010166	8.020	8.0208	246.89	2208.59	2455.48	246.91	2361.1	2608.0	0.8184	7.1085	7.9269
60	0.19920	0.0010171	7.677	7.6785	251.88	2204.86	2456.74	251.90	2357.8	2609.7	0.8310	7.0798	7.9108
61	0.20861	0.0010177	7.352	7.3532	255.26	2202.75	2458.00	255.28	2356.1	2611.4	0.8435	7.0513	7.8948
62	0.21838	0.0010182	7.043	7.0437	259.44	2199.94	2459.38	259.46	2353.7	2613.2	0.8560	7.0230	7.8790
63	0.22855	0.0010188	6.748	6.7493	263.63	2197.02	2460.64	263.65	2351.3	2614.9	0.8685	6.9948	7.8633
64	0.23912	0.0010193	6.468	6.4690	267.82	2194.09	2461.91	267.84	2348.8	2616.6	0.8809	6.9668	7.8477
65	0.25009	0.0010199	6.201	6.2023	272.00	2191.28	2463.29	272.03	2346.4	2618.4	0.8933	6.9389	7.8322

Temp. in °C	Pressure in 'bars'	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
66	0.26150	0.0010205	5.907	5.9082	276.18	2189.42	2465.60	276.21	2343.9	2620.1	0.9057	6.9111	7.8168
67	0.27334	0.0010211	5.705	5.7062	280.37	2185.45	2465.83	280.40	2341.4	2621.8	0.9180	6.8835	7.8015
68	0.28563	0.0010217	5.475	5.4756	284.56	2182.54	2467.10	284.59	2338.9	2623.5	0.9303	6.8561	7.7864
69	0.29838	0.0010223	5.255	5.2558	288.75	2179.63	2468.38	288.78	2336.4	2625.2	0.9426	6.8288	7.7714
70	0.31162	0.0010228	5.045	5.0463	292.94	2176.71	2469.65	292.97	2333.9	2626.9	0.9548	6.8017	7.7565
71	0.32535	0.0010235	4.845	4.8464	297.13	2173.80	2470.92	297.16	2331.4	2628.6	0.9670	6.7747	7.7417
72	0.33958	0.0010241	4.655	4.6557	301.33	2170.88	2472.20	301.36	2328.9	2630.3	0.9792	6.7478	7.7270
73	0.35434	0.0010247	4.473	4.4737	305.51	2167.97	2473.48	305.55	2326.5	2632.0	0.9913	6.7211	7.7124
74	0.36964	0.0010253	4.299	4.3000	309.70	2165.05	2474.75	309.74	2324.0	2633.7	1.0034	6.6945	7.6979
75	0.38549	0.0010259	4.133	4.1341	313.90	2162.13	2476.03	313.94	2321.5	2635.4	1.0154	6.6681	7.6835
76	0.40191	0.0010266	3.9747	3.9757	318.09	2159.22	2477.3	318.13	2318.97	2637.1	1.0275	6.6418	7.6693
77	0.41891	0.0010272	3.8233	3.8243	322.29	2156.21	2478.5	322.33	2316.37	2638.7	1.0395	6.6156	7.6551
78	0.43652	0.0010279	3.6786	3.6796	326.48	2153.30	2479.8	326.52	2313.88	2640.4	1.0514	6.5896	7.6410
79	0.45474	0.0010285	3.5403	3.5413	330.67	2150.39	2481.1	330.72	2311.38	2642.1	1.0634	6.5637	7.6271
80	0.47360	0.0010292	3.4081	3.4091	334.87	2147.47	2482.3	334.92	2308.88	2643.8	1.0753	6.5379	7.6132
81	0.49311	0.0010299	3.2816	3.2826	339.06	2144.47	2483.5	339.11	2306.29	2645.4	1.0871	6.5124	7.5995
82	0.51329	0.0010305	3.1606	3.1616	343.26	2141.56	2484.8	343.31	2303.79	2647.1	1.0990	6.4868	7.5858
83	0.53416	0.0010312	3.0448	3.0458	347.45	2138.55	2486.0	347.51	2301.19	2648.7	1.1108	6.4614	7.5722
84	0.55573	0.0010319	2.9340	2.9350	351.65	2135.64	2487.3	351.71	2298.69	2650.4	1.1225	6.4363	7.5588
85	0.57803	0.0010326	2.8278	2.8288	355.86	2132.63	2488.5	355.92	2296.08	2652.0	1.1343	6.4111	7.5454
86	0.60108	0.0010333	2.7262	2.7272	360.06	2129.62	2489.7	360.12	2293.48	2653.6	1.1460	6.3861	7.5321
87	0.62489	0.0010340	2.6288	2.6298	364.26	2126.71	2491.0	364.32	2290.98	2655.3	1.1577	6.3612	7.5189
88	0.64948	0.0010347	2.5355	2.5365	368.46	2123.70	2492.2	368.53	2288.37	2656.9	1.1693	6.3365	7.5058
89	0.67487	0.0010354	2.4460	2.4470	372.66	2120.70	2493.4	372.73	2285.77	2658.5	1.1809	6.3119	7.4928
90	0.70109	0.0010361	2.3603	2.3613	376.87	2117.68	2494.6	376.94	2283.16	2660.1	1.1925	6.2874	7.4799
91	0.72815	0.0010369	2.2781	2.2791	381.07	2114.67	2495.7	381.15	2280.55	2661.7	1.2041	6.2629	7.4670
92	0.75608	0.0010376	2.1992	2.2002	385.28	2111.77	2497.0	385.36	2278.04	2663.4	1.2156	6.2387	7.4543
93	0.78489	0.0010384	2.1235	2.1245	389.49	2108.76	2498.3	389.57	2275.43	2665.0	1.2271	6.2145	7.4416
94	0.81461	0.0010391	2.0509	2.0519	393.70	2105.75	2499.5	393.78	2272.82	2666.6	1.2386	6.1905	7.4291
95	0.84526	0.0010399	1.9812	1.9822	397.90	2102.65	2500.6	397.99	2270.11	2668.1	1.2501	6.1665	7.4166
96	0.87686	0.0010406	1.9143	1.9153	402.11	2099.65	2501.8	402.20	2267.50	2669.7	1.2615	6.1427	7.4042
97	0.90944	0.0010414	1.8500	1.8510	406.33	2096.64	2503.0	406.42	2264.88	2671.3	1.2729	6.1190	7.3919
98	0.94301	0.0010421	1.7883	1.7893	410.53	2093.64	2504.2	410.63	2262.27	2672.9	1.2842	6.0954	7.3796
99	0.97761	0.0010429	1.7290	1.7300	414.75	2090.53	2505.3	414.85	2259.55	2674.4	1.2956	6.0719	7.3675
100	1.01325	0.0010437	1.6720	1.6730	418.95	2087.53	2506.5	419.06	2256.94	2676.0	1.3069	6.0485	7.3554

TABLE 2

Temp. in °C	Pressure in 'bars'	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
101	1.0500	0.0010445	1.6172	1.6182	423.17	2084.52	2507.7	423.28	2254.32	2677.6	1.3182	6.0252	7.3434
102	1.0878	0.0010453	1.5645	1.5655	427.39	2081.42	2508.8	427.50	2251.60	2679.1	1.3294	6.0021	7.3315
103	1.1267	0.0010461	1.5139	1.5149	431.61	2078.40	2510.0	431.73	2248.97	2680.7	1.3406	5.9790	7.3196
104	1.1668	0.0010469	1.4656	1.4666	435.83	2075.25	2511.1	435.95	2246.25	2682.2	1.3518	5.9560	7.3078
105	1.2080	0.0010477	1.4183	1.4193	440.04	2072.21	2512.2	440.17	2243.53	2683.7	1.3630	5.9332	7.2962
106	1.2504	0.0010485	1.3732	1.3742	444.27	2069.20	2513.5	444.40	2240.90	2685.3	1.3742	5.9103	7.2845
107	1.2941	0.0010494	1.3297	1.3307	448.49	2066.10	2514.6	448.63	2238.17	2686.8	1.3853	5.8877	7.2730
108	1.3390	0.0010502	1.2878	1.2889	452.71	2063.01	2515.7	452.85	2235.45	2688.2	1.3964	5.8651	7.2615
109	1.3852	0.0010510	1.2476	1.2487	456.93	2059.90	2516.8	457.08	2232.72	2689.8	1.4074	5.8427	7.2501
110	1.4327	0.0010519	1.2088	1.2099	461.17	2056.79	2518.0	461.32	2229.98	2691.3	1.4185	5.8203	7.2388
111	1.4815	0.0010527	1.1715	1.1726	465.39	2053.69	2519.1	465.55	2227.25	2692.8	1.4295	5.7980	7.2275
112	1.5316	0.0010536	1.1355	1.1366	469.62	2050.60	2520.2	469.78	2224.52	2694.3	1.4405	5.7759	7.2164
113	1.5832	0.0010544	1.1008	1.1019	473.85	2047.49	2521.3	474.02	2221.78	2695.8	1.4515	5.7537	7.2052
114	1.6362	0.0010553	1.0674	1.0685	478.09	2044.28	2522.4	478.26	2218.94	2697.2	1.4624	5.7318	7.1942
115	1.6906	0.0010562	1.0352	1.0363	482.32	2041.18	2523.5	482.50	2216.20	2698.7	1.4733	5.7099	7.1832
116	1.7465	0.0010571	1.0041	1.0052	486.56	2038.09	2524.6	486.74	2213.46	2700.2	1.4842	5.6881	7.1723
117	1.8039	0.0010579	0.9742	0.9753	490.79	2034.89	2525.7	490.98	2210.62	2701.6	1.4951	5.6663	7.1614
118	1.8628	0.0010588	0.9453	0.9463	495.03	2031.78	2526.8	495.23	2207.87	2703.1	1.5060	5.6447	7.1507
119	1.9233	0.0010597	0.9174	0.9184	499.27	2028.59	2527.9	499.47	2205.03	2704.5	1.5168	5.6231	7.1399
120	1.9854	0.0010606	0.8905	0.8915	503.51	2025.49	2529.0	503.72	2202.28	2706.0	1.5276	5.6017	7.1293
121	2.0492	0.0010615	0.8645	0.8655	507.75	2022.28	2530.0	507.97	2199.43	2707.4	1.5384	5.5803	7.1187
122	2.1145	0.0010625	0.8394	0.8405	512.00	2019.09	2531.1	512.22	2196.58	2708.8	1.5491	5.5591	7.1082
123	2.1816	0.0010634	0.8152	0.8162	516.24	2015.89	2532.1	516.47	2193.73	2710.2	1.5599	5.5378	7.0977
124	2.2504	0.0010643	0.7918	0.7928	520.49	2012.69	2533.2	520.73	2190.87	2711.6	1.5706	5.5167	7.0873
125	2.3210	0.0010652	0.7692	0.7702	524.74	2009.49	2534.2	524.99	2188.01	2713.0	1.5813	5.4956	7.0769
126	2.3933	0.0010662	0.74733	0.74840	528.99	2006.29	2535.3	529.25	2185.15	2714.4	1.5919	5.4747	7.0666
127	2.4675	0.0010671	0.72623	0.72730	533.25	2003.09	2536.3	533.51	2182.29	2715.8	1.6026	5.4538	7.0564
128	2.5435	0.0010681	0.70584	0.70691	537.50	1999.90	2537.4	537.77	2179.43	2717.2	1.6132	5.4330	7.0462
129	2.6215	0.0010691	0.68613	0.68720	541.76	1996.59	2538.4	542.04	2176.46	2718.5	1.6238	5.4123	7.0361
130	2.7013	0.0010700	0.66707	0.66814	546.02	1993.39	2539.4	546.31	2173.59	2719.9	1.6344	5.3917	7.0261
131	2.7831	0.0010710	0.64864	0.64971	550.28	1990.20	2540.5	550.58	2170.72	2721.3	1.6449	5.3712	7.0161
132	2.8670	0.0010720	0.63081	0.63188	554.54	1986.90	2541.4	554.85	2167.75	2722.6	1.6555	5.3506	7.0061
133	2.9528	0.0010730	0.61357	0.61464	558.80	1983.61	2542.4	559.12	2164.78	2723.9	1.6660	5.3302	6.9962
134	3.0407	0.0010740	0.59688	0.59795	563.07	1980.41	2543.5	563.40	2161.90	2725.3	1.6765	5.3099	6.9864
135	3.1308	0.0010750	0.58074	0.58181	567.34	1977.10	2544.4	567.68	2158.92	2726.6	1.6869	5.2897	6.9766

Temp. in °C	Pressure in 'bars'	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
136	3.2229	0.0010760	0.56510	0.56618	571.61	1973.81	2545.4	571.96	2155.94	2727.9	1.6974	5.2695	6.9669
137	3.3173	0.0010770	0.54997	0.55105	575.88	1970.52	2546.4	576.24	2152.96	2729.2	1.7078	5.2494	6.9572
138	3.4138	0.0010780	0.53533	0.53641	580.16	1967.22	2547.4	580.53	2149.97	2730.5	1.7182	5.2293	6.9475
139	3.5127	0.0010790	0.52115	0.52223	584.43	1963.93	2548.4	584.81	2146.99	2731.8	1.7286	5.2094	6.9380
140	3.6138	0.0010800	0.50741	0.50849	588.71	1960.63	2549.3	589.10	2144.00	2733.1	1.7390	5.1894	6.9284
141	3.7172	0.0010811	0.49411	0.49519	593.00	1957.03	2550.0	593.40	2140.70	2734.1	1.7493	5.1697	6.9190
142	3.8231	0.0010821	0.48122	0.48230	597.28	1953.94	2551.2	597.69	2137.91	2735.6	1.7597	5.1498	6.9095
143	3.9313	0.0010832	0.46873	0.46981	601.56	1950.84	2552.4	601.99	2134.11	2736.1	1.7700	5.1301	6.9001
144	4.0420	0.0010843	0.45663	0.45771	605.85	1947.45	2553.3	606.29	2129.81	2736.1	1.7803	5.1105	6.8908
145	4.1552	0.0010853	0.44488	0.44597	610.14	1943.85	2554.0	610.59	2128.71	2739.3	1.7906	5.0909	6.8815
146	4.2709	0.0010864	0.43351	0.43460	614.44	1940.55	2555.0	614.90	2125.70	2740.6	1.8008	5.0715	6.8723
147	4.3892	0.0010875	0.42248	0.42357	618.73	1936.55	2555.3	619.21	2121.99	2741.2	1.8110	5.0521	6.8631
148	4.5101	0.0010886	0.41179	0.41288	623.03	1933.76	2556.8	623.52	2119.48	2743.0	1.8213	5.0326	6.8539
149	4.6337	0.0010897	0.40142	0.40251	627.33	1930.16	2557.5	627.83	2116.17	2744.0	1.8315	5.0133	6.8448
150	4.7600	0.0010906	0.39136	0.39245	631.63	1926.96	2558.6	632.15	2113.25	2745.4	1.8416	4.9942	6.8358
151	4.8890	0.0010919	0.38160	0.38269	635.94	1923.47	2559.40	636.47	2110.03	2746.5	1.8518	4.9750	6.8268
152	5.0208	0.0010930	0.37213	0.37322	640.24	1920.07	2560.31	640.79	2106.91	2747.7	1.8619	4.9559	6.8178
153	5.1554	0.0010941	0.36293	0.36402	644.56	1916.68	2561.23	645.12	2103.78	2748.9	1.8721	4.9368	6.8089
154	5.2929	0.0010953	0.35400	0.35510	648.86	1913.19	2562.05	649.44	2100.56	2750.0	1.8822	4.9178	6.8000
155	5.4333	0.0010964	0.34534	0.34644	653.17	1909.79	2562.97	653.77	2097.43	2751.2	1.8923	4.8988	6.7911
156	5.5767	0.0010976	0.33693	0.33803	657.50	1906.29	2563.79	658.11	2094.19	2752.3	1.9023	4.8800	6.7823
157	5.7320	0.0010987	0.32877	0.32987	661.82	1902.50	2564.32	662.45	2090.95	2753.4	1.9124	4.8611	6.7735
158	5.8725	0.0010999	0.32084	0.32194	666.14	1899.30	2565.44	666.79	2087.71	2754.5	1.9224	4.8424	6.7648
159	6.0250	0.0011011	0.31314	0.31424	670.47	1895.80	2566.27	671.13	2084.47	2755.6	1.9325	4.8236	6.7561
160	6.1806	0.0011022	0.30566	0.30676	674.79	1892.32	2567.10	675.47	2081.23	2756.7	1.9426	4.8049	6.7475
161	6.3395	0.0011034	0.29839	0.29949	679.12	1888.82	2567.94	679.82	2077.98	2757.8	1.9525	4.7864	6.7389
162	6.5016	0.0011046	0.29132	0.29242	683.46	1885.32	2568.78	684.18	2074.72	2758.9	1.9624	4.7679	6.7303
163	6.6669	0.0011058	0.28445	0.28556	687.79	1881.73	2569.52	688.53	2071.37	2759.9	1.9724	4.7494	6.7218
164	6.8356	0.0011070	0.27778	0.27889	692.13	1878.23	2570.36	692.89	2068.11	2761.0	1.9823	4.7310	6.7133
165	7.0077	0.0011082	0.27129	0.27240	696.47	1874.64	2571.11	697.25	2064.75	2762.0	1.9923	4.7125	6.7048
166	7.1831	0.0011095	0.26498	0.26609	700.82	1871.14	2571.96	701.62	2061.48	2763.1	2.0022	4.6942	6.6964
167	7.3621	0.0011107	0.25885	0.25996	705.17	1867.54	2572.71	705.99	2058.11	2764.1	2.0121	4.6759	6.6880
168	7.5445	0.0011119	0.25289	0.25400	709.52	1863.95	2573.47	710.36	2054.74	2765.1	2.0219	4.6577	6.6796
169	7.7306	0.0011132	0.24709	0.24820	713.88	1860.35	2574.23	714.74	2051.36	2766.1	2.0318	4.6395	6.6713
170	7.7902	0.0011145	0.24529	0.24640	718.25	1856.90	2575.15	719.12	2047.98	2767.1	2.0416	4.6214	6.6630

TABLE 2

Temp. in °C	Pressure in 'bars'	Specific volume in m <sup>3</sup> /kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
171	8.1135	0.0011157	0.23594	0.23706	722.59	1853.07	2575.66	723.50	2044.50	2768.0	2.0515	4.6033	6.6548
172	8.3106	0.0011170	0.23060	0.23172	726.96	1849.47	2576.43	727.89	2041.11	2769.0	2.0613	4.5852	6.6465
173	8.5114	0.0011183	0.22540	0.22652	731.33	1845.77	2577.10	732.28	2037.62	2769.9	2.0711	4.5673	6.6384
174	8.7160	0.0011196	0.22035	0.22147	735.69	1842.17	2577.87	736.67	2034.23	2770.9	2.0809	4.5493	6.6302
175	8.9244	0.0011209	0.21542	0.21654	740.07	1838.48	2578.55	741.07	2030.73	2771.8	2.0906	4.5315	6.6221
176	9.1368	0.0011222	0.21063	0.21175	744.44	1834.78	2579.23	745.47	2027.23	2772.7	2.1004	4.5136	6.6140
177	9.3532	0.0011235	0.20596	0.20708	748.83	1831.08	2579.91	749.88	2023.72	2773.6	2.1101	4.4958	6.6059
178	9.5736	0.0011248	0.20142	0.20254	753.21	1827.38	2580.60	754.29	2020.21	2774.5	2.1199	4.4780	6.5979
179	9.7980	0.0011262	0.19698	0.19811	757.60	1823.70	2581.29	758.70	2016.70	2775.4	2.1296	4.4603	6.5899
180	10.027	0.0011275	0.19267	0.19380	761.99	1819.99	2581.98	763.12	2013.18	2776.3	2.1393	4.4426	6.5819
181	10.259	0.0011289	0.18847	0.18960	766.38	1816.21	2582.59	767.54	2009.56	2777.1	2.1490	4.4249	6.5739
182	10.496	0.0011302	0.18438	0.18551	770.77	1812.51	2583.29	771.96	2006.04	2778.0	2.1587	4.4073	6.5660
183	10.738	0.0011316	0.18040	0.18153	775.17	1808.70	2583.87	776.39	2002.41	2778.8	2.1683	4.3898	6.5581
184	10.983	0.0011330	0.17651	0.17764	779.59	1804.91	2584.50	780.83	1998.77	2779.6	2.1780	4.3723	6.5503
185	11.233	0.0011344	0.17273	0.17386	783.99	1801.12	2585.10	785.26	1995.14	2780.4	2.1876	4.3548	6.5424
186	11.488	0.0011358	0.16903	0.17017	788.41	1797.30	2585.71	789.71	1991.49	2781.2	2.1972	4.3374	6.5346
187	11.747	0.0011372	0.16543	0.16657	792.81	1793.52	2586.33	794.15	1987.85	2782.0	2.2068	4.3200	6.5268
188	12.010	0.0011386	0.16193	0.16307	797.23	1789.72	2586.95	798.60	1984.20	2782.8	2.2164	4.3027	6.5191
189	12.278	0.0011401	0.15851	0.15965	801.66	1785.82	2587.48	803.06	1980.44	2783.5	2.2260	4.2853	6.5113
190	12.551	0.0011415	0.15518	0.15632	806.09	1782.02	2588.10	807.52	1976.78	2784.3	2.2356	4.2680	6.5036
191	12.829	0.0011430	0.15193	0.15307	810.51	1778.11	2588.63	811.98	1973.02	2785.0	2.2451	4.2508	6.4959
192	13.111	0.0011444	0.14876	0.14990	814.95	1774.22	2589.17	816.45	1969.25	2785.7	2.2547	4.2336	6.4883
193	13.398	0.0011459	0.14565	0.14680	819.38	1770.33	2589.72	820.92	1965.48	2786.4	2.2642	4.2164	6.4806
194	13.690	0.0011474	0.14264	0.14379	823.83	1766.42	2590.25	825.40	1961.70	2787.1	2.2738	4.1992	6.4730
195	13.987	0.0011489	0.13969	0.14084	828.27	1762.53	2590.81	829.88	1957.92	2787.8	2.2833	4.1821	6.4654
196	14.289	0.0011504	0.13682	0.13797	832.73	1758.53	2591.25	834.37	1954.03	2788.4	2.2928	4.1650	6.4578
197	14.596	0.0011519	0.13402	0.13517	837.18	1754.63	2591.81	838.86	1950.24	2789.1	2.3023	4.1480	6.4503
198	14.909	0.0011534	0.13129	0.13244	841.64	1750.60	2592.25	843.36	1946.34	2789.7	2.3117	4.1311	6.4428
199	15.226	0.0011549	0.12862	0.12977	846.10	1746.61	2592.71	847.86	1942.44	2790.3	2.3212	4.1141	6.4353
200	15.549	0.0011565	0.12600	0.12716	850.57	1742.61	2593.18	852.37	1938.53	2790.9	2.3307	4.0971	6.4278
201	15.877	0.0011581	0.12346	0.12462	855.04	1738.60	2593.64	856.88	1934.62	2791.5	2.3401	4.0802	6.4203
202	16.210	0.0011596	0.12097	0.12213	859.52	1734.61	2594.13	861.40	1930.70	2792.1	2.3495	4.0633	6.4128
203	16.549	0.0011612	0.11855	0.11971	864.00	1730.59	2594.59	865.92	1926.78	2792.7	2.3590	4.0464	6.4054
204	16.893	0.0011628	0.11618	0.11734	868.49	1726.49	2594.98	870.45	1922.75	2793.2	2.3684	4.0296	6.3980
205	17.243	0.0011644	0.11387	0.11503	872.98	1722.47	2595.45	874.99	1918.81	2793.8	2.3778	4.0128	6.3906

Temp. in °C	Pressure in 'bars'	Specific volume in m <sup>3</sup> /kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
206	17.598	0.0011660	0.11160	0.11277	877.47	1718.38	2595.85	879.52	1914.78	2794.3	2.3872	3.9960	6.3832
207	17.959	0.0011676	0.10939	0.11056	881.97	1714.27	2596.25	884.07	1910.73	2794.8	2.3966	3.9793	6.3759
208	18.326	0.0011693	0.10723	0.10840	886.48	1710.17	2596.65	888.62	1906.68	2795.3	2.4059	3.9627	6.3686
209	18.699	0.0011709	0.10513	0.10630	890.98	1705.95	2596.93	893.17	1902.53	2795.7	2.4153	3.9459	6.3612
210	19.077	0.0011726	0.10307	0.10424	895.49	1701.85	2597.34	897.73	1898.47	2796.2	2.4247	3.9292	6.3539
211	19.462	0.0011743	0.10106	0.10223	900.01	1697.63	2597.64	902.30	1894.30	2796.6	2.4340	3.9126	6.3466
212	19.852	0.0011760	0.09908	0.10026	904.54	1693.53	2598.06	906.87	1890.23	2797.1	2.4434	3.8960	6.3394
213	20.249	0.0011777	0.09716	0.09834	909.07	1689.31	2598.37	911.45	1886.05	2797.5	2.4527	3.8794	6.3321
214	20.651	0.0011794	0.09528	0.09646	913.60	1685.09	2598.70	916.04	1881.86	2797.9	2.4620	3.8629	6.3249
215	21.060	0.0011811	0.09344	0.09463	918.14	1680.88	2599.02	920.63	1877.67	2798.3	2.4713	3.8463	6.3176
216	21.475	0.0011829	0.09165	0.09283	922.68	1676.57	2599.25	925.22	1873.38	2798.6	2.4806	3.8298	6.3104
217	21.896	0.0011846	0.08989	0.09108	927.24	1672.35	2599.58	929.83	1869.17	2799.0	2.4899	3.8133	6.3032
218	22.324	0.0011864	0.08817	0.08936	931.79	1668.03	2599.82	934.44	1864.86	2799.3	2.4992	3.7969	6.2961
219	22.758	0.0011882	0.08649	0.08768	936.35	1663.71	2600.06	939.05	1860.55	2799.6	2.5085	3.7804	6.2889
220	23.198	0.0011900	0.08485	0.08604	940.91	1659.40	2600.31	943.67	1856.23	2799.9	2.5178	3.7639	6.2817
221	23.645	0.0011918	0.08324	0.08443	945.48	1655.08	2600.56	948.30	1851.90	2800.2	2.5271	3.7475	6.2746
222	24.099	0.0011936	0.08167	0.08286	950.06	1650.75	2600.81	952.94	1847.56	2800.5	2.5363	3.7311	6.2674
223	24.560	0.0011954	0.08013	0.08132	954.64	1646.32	2600.97	957.58	1843.12	2800.7	2.5456	3.7147	6.2603
224	25.027	0.0011973	0.07862	0.07982	959.23	1641.90	2601.13	962.23	1838.67	2800.9	2.5584	3.6948	6.2532
225	25.501	0.0011992	0.07715	0.07835	963.82	1637.58	2601.40	966.88	1834.32	2801.2	2.5641	3.6820	6.2461
226	25.982	0.0012010	0.075708	0.076909	968.43	1633.15	2601.58	971.55	1829.85	2801.4	2.5733	3.6657	6.2390
227	26.470	0.0012029	0.074297	0.075500	973.03	1628.63	2601.65	976.21	1825.29	2801.5	2.5825	3.6494	6.2319
228	26.965	0.0012048	0.072916	0.074121	977.64	1624.19	2601.83	980.89	1820.81	2801.7	2.5917	3.6332	6.2249
229	27.467	0.0012068	0.071564	0.072771	982.26	1619.66	2601.92	985.57	1816.23	2801.8	2.6010	3.6168	6.2178
230	27.976	0.0012087	0.070241	0.071450	986.89	1615.22	2602.11	990.27	1811.73	2802.0	2.6102	3.6005	6.2107
231	28.493	0.0012107	0.068945	0.070156	991.51	1610.69	2602.20	994.96	1807.14	2802.1	2.6194	3.5843	6.2037
232	29.016	0.0012127	0.067677	0.068890	996.15	1606.16	2602.31	999.67	1802.53	2802.2	2.6286	3.5681	6.1967
233	29.547	0.0012147	0.066434	0.067649	1000.79	1601.53	2602.32	1004.38	1797.82	2802.2	2.6368	3.5518	6.1896
234	30.086	0.0012167	0.065218	0.066435	1005.45	1596.97	2602.42	1009.11	1793.19	2802.3	2.6470	3.5356	6.1826
235	30.632	0.0012187	0.064026	0.065245	1010.10	1592.34	2602.44	1013.83	1788.47	2802.3	2.6561	3.5195	6.1756
236	31.186	0.0012207	0.062860	0.064081	1014.76	1587.69	2602.46	1018.57	1783.73	2802.3	2.6653	3.5033	6.1686
237	31.747	0.0012228	0.061717	0.062940	1019.44	1583.05	2602.48	1023.32	1778.98	2802.3	2.6745	3.4871	6.1616
238	32.317	0.0012249	0.060597	0.061822	1024.11	1578.40	2602.51	1028.07	1774.23	2802.3	2.6837	3.4709	6.1546
239	32.893	0.0012270	0.059500	0.060727	1028.79	1573.76	2602.55	1032.83	1769.47	2802.3	2.6928	3.4548	6.1476
240	33.478	0.0012291	0.058425	0.059654	1033.49	1569.01	2602.49	1037.60	1764.60	2802.2	2.7020	3.4386	6.1406

TABLE 2

Temp. in °C	Pressure in 'bars'	Specific volume in m <sup>3</sup> /kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
241	34.071	0.0012312	0.057372	0.058603	1038.19	1564.25	2602.43	1042.38	1759.72	2802.1	2.7112	3.4224	6.1336
242	34.672	0.0012334	0.056341	0.057574	1042.89	1559.49	2602.38	1047.17	1754.83	2802.0	2.7203	3.4063	6.1266
243	35.281	0.0012355	0.055329	0.056564	1047.60	1554.74	2602.34	1051.96	1749.94	2801.9	2.7295	3.3901	6.1196
244	35.898	0.0012377	0.054337	0.055575	1052.33	1549.97	2602.30	1056.77	1745.03	2801.8	2.7386	3.3741	6.1127
245	36.523	0.0012399	0.053366	0.054606	1057.05	1545.11	2602.16	1061.58	1740.02	2801.6	2.7478	3.3579	6.1057
246	37.157	0.0012422	0.052413	0.053655	1061.78	1540.25	2602.03	1066.40	1735.00	2801.4	2.7569	3.3418	6.0987
247	37.799	0.0012444	0.051480	0.052724	1066.53	1535.38	2601.91	1071.23	1729.97	2801.2	2.7661	3.3256	6.0917
248	38.449	0.0012467	0.050564	0.051811	1071.28	1530.52	2601.79	1076.07	1724.93	2801.0	2.7752	3.3096	6.0848
249	39.108	0.0012490	0.049666	0.050915	1076.04	1525.55	2601.58	1080.92	1719.78	2800.7	2.7843	3.2935	6.0778
250	39.776	0.0012513	0.048786	0.050037	1080.80	1520.57	2601.37	1085.78	1714.62	2800.4	2.7935	3.2773	6.0708
251	40.452	0.0012536	0.047923	0.049177	1085.58	1515.59	2601.17	1090.65	1709.45	2800.1	2.8026	3.2613	6.0639
252	41.137	0.0012560	0.047076	0.048332	1090.36	1510.61	2600.98	1095.53	1704.27	2799.8	2.8118	3.2451	6.0569
253	41.831	0.0012584	0.046246	0.047504	1095.16	1505.63	2600.79	1100.42	1699.08	2799.5	2.8209	3.2290	6.0499
254	42.535	0.0012608	0.045431	0.046692	1099.96	1500.54	2600.50	1105.32	1693.78	2799.1	2.8300	3.2129	6.0429
255	43.246	0.0012632	0.044633	0.045896	1104.77	1495.45	2600.22	1110.23	1688.47	2798.7	2.8392	3.1967	6.0359
256	43.967	0.0012656	0.043848	0.045114	1109.59	1490.36	2599.95	1115.15	1683.15	2798.3	2.8483	3.1807	6.0290
257	44.697	0.0012681	0.043078	0.044346	1114.41	1485.27	2599.69	1120.08	1677.82	2797.9	2.8574	3.1646	6.0220
258	45.437	0.0012706	0.042325	0.043596	1119.26	1480.06	2599.31	1125.03	1672.37	2797.4	2.8666	3.1484	6.0150
259	46.185	0.0012731	0.041585	0.042858	1124.10	1474.86	2598.96	1129.98	1666.92	2796.9	2.8757	3.1323	6.0080
260	46.943	0.0012756	0.040858	0.042134	1128.95	1469.66	2598.61	1134.94	1661.46	2796.4	2.8848	3.1162	6.0010
261	47.711	0.0012782	0.040145	0.041423	1133.82	1464.45	2598.27	1139.92	1655.98	2795.9	2.8940	3.1000	5.9940
262	48.488	0.0012808	0.039445	0.040726	1138.69	1459.14	2597.83	1144.90	1650.40	2795.3	2.9031	3.0838	5.9869
263	49.275	0.0012834	0.038758	0.040041	1143.58	1453.82	2597.40	1149.90	1644.80	2794.7	2.9123	3.0676	5.9799
264	50.071	0.0012861	0.038083	0.039369	1148.47	1448.51	2596.98	1154.91	1639.19	2794.1	2.9214	3.0515	5.9729
265	50.877	0.0012887	0.037421	0.038710	1153.37	1443.18	2596.56	1159.93	1633.57	2793.5	2.9306	3.0352	5.9658
266	51.693	0.0012914	0.036771	0.038062	1158.29	1437.75	2596.05	1164.97	1627.83	2792.8	2.9397	3.0191	5.9588
267	52.519	0.0012942	0.036133	0.037427	1163.22	1432.31	2595.54	1170.02	1622.08	2792.1	2.9489	3.0028	5.9517
268	53.355	0.0012969	0.035506	0.036803	1168.15	1426.89	2595.04	1175.07	1616.33	2791.4	2.9580	2.9866	5.9446
269	54.202	0.0012997	0.034890	0.036190	1173.11	1421.34	2594.44	1180.15	1610.45	2790.6	2.9672	2.9703	5.9375
270	55.058	0.0013025	0.034286	0.035588	1178.06	1415.90	2593.96	1185.23	1604.67	2789.9	2.9763	2.9541	5.9304
271	55.925	0.0013053	0.033692	0.034997	1183.03	1410.35	2593.38	1190.33	1598.77	2789.1	2.9855	2.9378	5.9233
272	56.802	0.0013082	0.033108	0.034416	1188.01	1404.70	2592.71	1195.44	1592.76	2788.2	2.9947	2.9215	5.9162
273	57.689	0.0013111	0.032535	0.033846	1193.00	1399.15	2592.15	1200.56	1586.84	2787.4	3.0039	2.9052	5.9091
274	58.587	0.0013141	0.031972	0.033286	1198.00	1393.49	2591.49	1205.70	1580.80	2786.5	3.0131	2.8888	5.9019
275	59.496	0.0013170	0.031419	0.032736	1203.02	1387.71	2590.73	1210.86	1574.64	2785.5	3.0222	2.8725	5.8947

Temp. in °C	Pressure in 'bars'	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
276	60.415	0.0013200	0.030876	0.032196	1208.05	1382.04	2590.09	1216.02	1568.58	2784.6	3.0314	2.8562	5.8876
277	61.346	0.0013231	0.030341	0.031664	1213.08	1376.27	2589.35	1221.20	1562.40	2783.6	3.0406	2.8398	5.8804
278	62.287	0.0013261	0.029817	0.031143	1218.14	1370.48	2588.62	1226.40	1556.20	2782.6	3.0499	2.8232	5.8731
279	63.239	0.0013292	0.029301	0.030630	1223.20	1364.59	2587.80	1231.61	1549.89	2781.5	3.0591	2.8068	5.8659
280	64.202	0.0013324	0.028794	0.030126	1228.29	1358.70	2586.99	1236.84	1543.56	2780.4	3.0683	2.7903	5.8586
281	65.176	0.0013356	0.028295	0.029631	1233.38	1352.80	2586.18	1242.08	1537.22	2779.3	3.0775	2.7738	5.8513
282	66.162	0.0013388	0.027805	0.029144	1238.48	1346.80	2585.28	1247.34	1530.76	2778.1	3.0868	2.7572	5.8440
283	67.158	0.0013420	0.027324	0.028666	1243.60	1340.89	2584.48	1252.61	1524.39	2777.0	3.0960	2.7407	5.8367
284	68.167	0.0013453	0.026850	0.028195	1248.73	1334.77	2583.50	1257.90	1517.80	2775.7	3.1053	2.7241	5.8294
285	69.186	0.0013487	0.026384	0.027733	1253.88	1328.75	2582.63	1263.21	1511.29	2774.5	3.1146	2.7074	5.8220
286	70.218	0.0013520	0.025927	0.027279	1259.05	1322.61	2581.65	1268.54	1504.66	2773.2	3.1238	2.6908	5.8146
287	71.261	0.0013554	0.025477	0.026832	1264.22	1316.37	2580.59	1273.88	1497.92	2771.8	3.1331	2.6741	5.8072
288	72.315	0.0013589	0.025033	0.026392	1269.41	1310.23	2579.65	1279.24	1491.26	2770.5	3.1424	2.6573	5.7997
289	73.382	0.0013624	0.024598	0.025960	1274.61	1303.99	2578.60	1284.61	1484.49	2769.1	3.1518	2.6405	5.7923
290	74.461	0.0013659	0.024169	0.025535	1279.84	1297.62	2577.46	1290.01	1477.59	2767.6	3.1611	2.6237	5.7848
291	75.551	0.0013695	0.023748	0.025117	1285.07	1291.37	2576.44	1295.42	1470.78	2766.2	3.1704	2.6069	5.7773
292	76.654	0.0013732	0.023333	0.024706	1290.33	1284.88	2575.22	1300.86	1463.74	2764.6	3.1798	2.5899	5.7697
293	77.769	0.0013769	0.022925	0.024302	1295.60	1278.50	2574.11	1306.31	1456.79	2763.1	3.1891	2.5730	5.7621
294	78.897	0.0013806	0.022523	0.023904	1300.89	1272.02	2572.90	1311.78	1449.72	2761.5	3.1985	2.5560	5.7545
295	80.037	0.0013844	0.022129	0.023513	1306.19	1265.42	2571.61	1317.27	1442.53	2759.8	3.2079	2.5390	5.7469
296	81.189	0.0013882	0.021740	0.023128	1311.52	1258.91	2570.43	1322.79	1435.41	2758.2	3.2173	2.5219	5.7392
297	82.355	0.0013921	0.021357	0.022749	1316.86	1252.20	2569.05	1328.32	1428.08	2756.4	3.2268	2.5047	5.7315
298	83.532	0.0013960	0.020980	0.022376	1322.22	1245.57	2567.79	1333.88	1420.82	2754.7	3.2362	2.4875	5.7237
299	84.723	0.0014000	0.020610	0.022010	1327.59	1238.84	2566.42	1339.45	1413.45	2752.9	3.2457	2.4702	5.7159
300	85.927	0.0014041	0.020245	0.021649	1332.98	1231.99	2564.98	1345.05	1405.95	2751.0	3.2552	2.4529	5.7081
301	87.144	0.0014082	0.019885	0.021293	1338.41	1225.14	2563.54	1350.68	1398.42	2749.1	3.2647	2.4356	5.7003
302	88.374	0.0014123	0.019532	0.020944	1343.84	1218.27	2562.11	1356.32	1390.88	2747.2	3.2742	2.4182	5.6924
303	89.617	0.0014166	0.019183	0.020600	1349.29	1211.29	2560.59	1361.99	1383.21	2745.2	3.2837	2.4007	5.6844
304	90.873	0.0014208	0.018840	0.020261	1354.78	1204.30	2559.08	1367.69	1375.51	2743.2	3.2933	2.3832	5.6765
305	92.144	0.0014252	0.018502	0.019927	1360.27	1197.22	2557.48	1373.40	1367.70	2741.1	3.3029	2.3656	5.6685
306	93.427	0.0014296	0.018169	0.019599	1365.79	1190.10	2555.89	1379.15	1359.85	2739.0	3.3125	2.3479	5.6604
307	94.725	0.0014341	0.017823	0.019257	1371.34	1183.05	2554.39	1384.92	1351.88	2736.8	3.3221	2.3302	5.6523
308	96.036	0.0014387	0.017518	0.018957	1376.90	1175.64	2552.54	1390.72	1343.88	2734.6	3.3318	2.3124	5.6442
309	97.361	0.0014433	0.017200	0.018643	1382.49	1168.30	2550.79	1396.54	1335.76	2732.3	3.3415	2.2945	5.6360
310	98.70	0.0014480	0.016886	0.018334	1388.10	1160.95	2549.04	1402.39	1327.61	2730.0	3.3512	2.2766	5.6278

TABLE 2

Temp. in °C	Pressure in 'bars'	Specific volume in m³/kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
311	100.05	0.0014527	0.016576	0.018029	1393.74	1153.48	2547.22	1408.27	1319.33	2727.6	3.3609	2.2586	5.6195
312	101.42	0.0014576	0.016272	0.017730	1399.40	1145.99	2545.38	1414.18	1311.02	2725.2	3.3707	2.2404	5.6111
313	102.80	0.0014625	0.015972	0.017434	1405.09	1138.39	2543.48	1420.12	1302.58	2722.7	3.3805	2.2223	5.6028
314	104.20	0.0014675	0.015676	0.017143	1410.80	1130.77	2541.57	1426.09	1294.11	2720.2	3.3903	2.2040	5.5943
315	105.61	0.0014726	0.015383	0.016856	1416.54	1123.05	2539.58	1432.09	1285.51	2717.6	3.4002	2.1856	5.5858
316	107.04	0.0014778	0.015095	0.016573	1422.31	1115.19	2537.50	1438.13	1276.77	2714.9	3.4101	2.1671	5.5772
317	108.48	0.0014831	0.014811	0.016294	1428.10	1107.34	2535.44	1444.19	1268.01	2712.2	3.4200	2.1486	5.5686
318	109.93	0.0014885	0.014531	0.016019	1433.94	1099.37	2533.30	1450.30	1259.10	2709.4	3.4300	2.1299	5.5599
319	111.40	0.0014939	0.014253	0.015747	1439.79	1091.39	2531.18	1456.43	1250.17	2706.6	3.4400	2.1112	5.5512
320	112.89	0.0014995	0.013981	0.015480	1445.67	1083.27	2528.95	1462.60	1241.10	2703.7	3.4500	2.0923	5.5423
321	114.39	0.0015052	0.013711	0.015216	1451.59	1075.05	2526.64	1468.81	1231.89	2700.7	3.4601	2.0733	5.5334
322	115.91	0.0015109	0.013445	0.014956	1457.55	1066.70	2524.25	1475.06	1222.54	2697.6	3.4702	2.0542	5.5244
323	117.44	0.0015168	0.013182	0.014699	1463.53	1058.35	2521.87	1481.34	1213.16	2694.5	3.4804	2.0350	5.5154
324	118.99	0.0015228	0.012922	0.014445	1469.55	1049.87	2519.42	1487.67	1203.63	2691.3	3.4906	2.0156	5.5062
325	120.56	0.0015289	0.012666	0.014195	1475.60	1041.27	2516.87	1494.03	1193.97	2688.0	3.5008	1.9961	5.4969
326	122.14	0.0015352	0.012413	0.013948	1481.69	1032.55	2514.24	1500.44	1184.16	2684.6	3.5111	1.9765	5.4876
327	123.73	0.0015416	0.012162	0.013704	1487.82	1023.72	2511.54	1506.89	1174.21	2681.1	3.5215	1.9566	5.4781
328	125.35	0.0015481	0.011915	0.013463	1493.98	1014.86	2508.84	1513.39	1164.21	2677.6	3.5319	1.9366	5.4685
329	126.98	0.0015547	0.011670	0.013225	1500.19	1005.78	2505.97	1519.93	1153.97	2673.9	3.5423	1.9165	5.4588
330	128.63	0.0015615	0.011428	0.012989	1506.43	996.69	2503.12	1526.52	1143.68	2670.2	3.5528	1.8962	5.4490
331	130.29	0.0015684	0.011189	0.012757	1512.73	987.36	2500.09	1533.16	1133.14	2666.3	3.5634	1.8757	5.4391
332	131.97	0.0015755	0.010952	0.012527	1519.06	977.92	2496.98	1539.85	1122.45	2662.3	3.5740	1.8550	5.4290
333	133.67	0.0015827	0.010717	0.012300	1525.44	968.44	2493.89	1546.60	1111.70	2658.3	3.5847	1.8341	5.4188
334	135.38	0.0015902	0.010486	0.012076	1531.87	958.74	2490.62	1553.40	1100.70	2654.1	3.5955	1.8129	5.4084
335	137.12	0.0015978	0.010256	0.011854	1538.34	948.82	2487.16	1560.25	1089.45	2649.7	3.6063	1.7916	5.3979
336	138.87	0.0016055	0.010030	0.011635	1544.87	938.85	2483.72	1567.17	1078.13	2645.3	3.6172	1.7700	5.3872
337	140.64	0.0016135	0.009805	0.011418	1551.46	928.66	2480.12	1574.15	1066.55	2640.7	3.6282	1.7482	5.3764
338	142.42	0.0016217	0.009581	0.011203	1558.09	918.35	2476.45	1581.19	1054.81	2636.0	3.6392	1.7261	5.3653
339	144.23	0.0016301	0.009361	0.010991	1564.78	907.90	2472.68	1588.29	1042.91	2631.2	3.6504	1.7037	5.3541
340	146.05	0.0016387	0.009141	0.010780	1571.54	897.22	2468.76	1595.47	1030.73	2626.2	3.6616	1.6811	5.3427
341	147.89	0.0016476	0.008925	0.010573	1578.35	886.28	2464.64	1602.72	1018.28	2621.0	3.6729	1.6583	5.3312
342	149.76	0.0016567	0.008710	0.010367	1585.24	875.20	2460.44	1610.05	1005.65	2615.7	3.6844	1.6350	5.3194
343	151.64	0.0016661	0.008498	0.010164	1592.19	863.99	2456.17	1617.45	992.85	2610.3	3.6959	1.6115	5.3074
344	153.54	0.0016758	0.008286	0.009962	1599.21	852.53	2451.74	1624.94	979.76	2604.7	3.7075	1.5877	5.2952
345	155.45	0.0016858	0.008077	0.009763	1606.31	840.82	2447.13	1632.52	966.38	2598.9	3.7193	1.5635	5.2828

Temp. in °C	Pressure in 'bars'	Specific volume in m <sup>3</sup> /kg			Sp. Internal energy in kJ/kg			Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		Sat. liquid <i>v<sub>f</sub></i>	Evapora- tion <i>v<sub>fg</sub></i>	Sat. vapour <i>v<sub>g</sub></i>	Sat. liquid <i>u<sub>f</sub></i>	Evapora- tion <i>u<sub>fg</sub></i>	Sat. vapour <i>u<sub>g</sub></i>	Sat. liquid <i>h<sub>f</sub></i>	Evapora- tion <i>h<sub>fg</sub></i>	Sat. vapour <i>h<sub>g</sub></i>	Sat. liquid <i>s<sub>f</sub></i>	Evapora- tion <i>s<sub>fg</sub></i>	Sat. vapour <i>s<sub>g</sub></i>
346	157.39	0.0016961	0.007870	0.009566	1613.50	828.95	2442.44	1640.19	952.81	2593.0	3.7311	1.5391	5.2702
347	159.35	0.0017067	0.007664	0.009371	1620.76	816.81	2437.57	1647.96	938.94	2586.9	3.7431	1.5143	5.2574
348	161.33	0.0017178	0.007461	0.009178	1628.13	804.50	2432.63	1655.84	924.86	2580.7	3.7553	1.4891	5.2444
349	163.33	0.0017292	0.007258	0.008988	1635.59	791.82	2427.41	1663.83	910.37	2574.2	3.7676	1.4635	5.2311
350	165.35	0.0017411	0.007058	0.008799	1643.15	779.06	2422.21	1671.94	895.76	2567.7	3.7800	1.4377	5.2177
351	167.39	0.0017532	0.006856	0.008609	1651.03	765.55	2416.59	1680.38	880.32	2560.7	3.7933	1.4103	5.2036
352	169.45	0.0017661	0.006654	0.008421	1659.39	751.42	2410.81	1689.32	864.18	2553.5	3.8071	1.3822	5.1893
353	171.54	0.0017796	0.006453	0.008232	1667.83	737.05	2404.88	1698.36	847.74	2546.1	3.8209	1.3537	5.1746
354	173.64	0.0017937	0.006252	0.008045	1676.32	722.38	2398.70	1707.47	830.93	2538.4	3.8349	1.3247	5.1596
355	175.77	0.0018085	0.006051	0.007859	1684.84	707.42	2392.26	1716.63	813.77	2530.4	3.8489	1.2953	5.1442
356	177.92	0.0018241	0.005850	0.007674	1693.43	692.14	2385.56	1725.88	796.22	2522.1	3.8629	1.2654	5.1283
357	180.09	0.0018406	0.005649	0.007490	1702.07	676.55	2378.62	1735.22	778.28	2513.5	3.8772	1.2349	5.1121
358	182.29	0.0018580	0.005448	0.007306	1710.83	660.59	2371.42	1744.70	759.90	2504.6	3.8915	1.2038	5.0953
359	184.51	0.0018764	0.005247	0.007123	1719.72	644.06	2363.78	1754.34	740.86	2495.2	3.9061	1.1719	5.0780
360	186.75	0.0018959	0.005044	0.006940	1728.76	627.04	2355.80	1764.17	721.23	2485.4	3.9210	1.1390	5.0600
361	189.02	0.0019167	0.004840	0.006757	1738.00	609.49	2347.49	1774.23	700.97	2475.2	3.9362	1.1052	5.0414
362	191.31	0.0019388	0.004634	0.006573	1747.49	591.17	2338.66	1784.58	679.82	2464.4	3.9518	1.0702	5.0220
363	193.62	0.0019626	0.004425	0.006388	1757.26	572.06	2329.32	1795.26	657.74	2453.0	3.9679	1.0338	5.0017
364	195.96	0.0019882	0.004213	0.006201	1767.40	551.99	2319.39	1806.36	634.54	2440.9	3.9846	0.9958	4.9804
365	198.33	0.0020160	0.003996	0.006012	1777.98	530.80	2308.77	1817.96	610.04	2428.0	4.0021	0.9558	4.9579
366	200.72	0.0020464	0.003772	0.005819	1789.12	508.18	2297.31	1830.20	583.90	2414.1	4.0205	0.9134	4.9339
367	203.13	0.0020802	0.003540	0.005620	1800.98	483.85	2284.84	1843.24	555.76	2399.0	4.0401	0.8680	4.9081
368	205.57	0.0021181	0.003298	0.005416	1813.79	457.28	2271.07	1857.33	525.07	2382.4	4.0613	0.8188	4.8801
369	208.04	0.0021618	0.003039	0.005201	1827.82	427.88	2255.69	1872.79	491.11	2363.9	4.0845	0.7647	4.8492
370	210.54	0.0022136	0.002759	0.004973	1843.60	394.50	2238.10	1890.21	452.59	2342.8	4.1108	0.7036	4.8144
371	213.06	0.0022778	0.002446	0.004723	1861.97	355.30	2217.27	1910.50	407.40	2317.9	4.1414	0.6324	4.7738
372	215.62	0.0023636	0.002075	0.004439	1884.61	306.68	2191.29	1935.57	351.43	2287.0	4.1794	0.5446	4.7240
373	218.20	0.0024963	0.001588	0.004084	1916.03	238.86	2154.89	1970.50	273.50	2244.0	4.2326	0.4233	4.6559
374	220.81	0.0028427	0.000623	0.003466	1983.95	95.72	2079.67	2046.72	109.48	2156.2	4.3493	0.1692	4.5185
374.15	221.20	0.0031700	0.0000000	0.003170	2037.28	0.00	2037.28	2107.4	0.00	2107.4	4.4430	0.0000	4.4430

**TABLE 3**  
**Superheated Steam Table**

Temp. °C	v (m <sup>3</sup> /kg)	u (kJ/kg)	h (kJ/kg)	s (kJ/kg K)	v (m <sup>3</sup> /kg)	u (kJ/kg)	h (kJ/kg)	s (kJ/kg K)
<i>P = 10 kPa (45.81)</i>					<i>P = 50 kPa (81.33)</i>			
Sat.	14.6590	2438.11	2584.7	8.1507	3.238	2484.10	2646.00	7.5944
50	14.86920	2443.87	2592.56	8.1749	—	—	—	—
100	17.19561	2515.50	2687.46	8.4479	3.41833	2511.61	2682.52	7.6947
150	19.51251	2587.86	2782.99	8.6881	3.88917	2585.61	2780.08	7.9400
200	21.82507	2661.27	2879.52	8.9037	4.35595	2659.85	2877.64	8.1579
250	24.13559	2735.95	2977.31	9.1002	4.82045	2734.97	2975.99	8.3555
300	26.44508	2812.06	3076.51	9.2812	5.28391	2811.33	3075.52	8.5372
400	31.06252	2968.89	3279.51	9.6076	6.20929	2968.43	3278.89	8.8641
500	35.67896	3132.26	3489.05	9.8977	7.13364	3131.94	3488.62	9.1545
600	40.29488	3302.45	3705.40	10.1608	8.05748	3302.22	3705.10	9.4177
700	44.91052	3479.63	3928.73	10.4028	8.98104	3479.45	3928.51	9.6599
800	49.52599	3663.84	4159.10	10.6281	9.90444	3663.70	4158.92	9.8852
900	54.14137	3855.03	4396.44	10.8395	10.82773	3854.91	4396.30	10.0967
1000	58.75669	4053.01	4640.58	11.0392	11.75097	4052.91	4640.46	10.2964
<i>1 bar (99.62)</i>					<i>2 bar (120.23)</i>			
Sat.	1.677	2507.70	2675.4	7.3577	0.88497	2529.41	2706.40	7.1267
150	1.93636	2582.75	2776.38	7.6133	0.95964	2576.87	2768.80	7.2795
200	2.17226	2658.05	2875.27	7.8342	1.08034	2654.39	2870.46	7.5066
250	2.40604	2733.73	2974.33	8.0332	1.19880	2731.22	2970.98	7.7085
300	2.63876	2810.41	3074.28	8.2157	1.31616	2808.55	3071.79	7.8926
400	3.10263	2967.85	3278.11	8.5434	1.54930	2966.69	3276.55	8.2217
500	3.56547	3131.54	3488.09	8.8341	1.78139	3130.75	3487.03	8.5132
600	4.02781	3301.94	3704.72	9.0975	2.01297	3301.36	3703.96	8.7769
700	4.48986	3479.24	3928.23	9.3398	2.24426	3478.81	3927.66	9.0194
800	4.95174	3663.53	4158.71	9.5652	2.47539	3663.19	4158.27	9.2450
900	5.41353	3854.77	4396.12	9.7767	2.70643	3854.49	4395.77	9.4565
1000	5.87526	4052.78	4640.31	9.9764	2.93740	4052.53	4640.01	9.6563
<i>3 bar (133.55)</i>					<i>4 bar (143.63)</i>			
Sat.	0.60529	2543.11	2724.7	6.9907	0.46044	2553.52	2737.7	6.8936
150	0.63388	2570.79	2760.95	7.0778	0.47084	2564.48	2752.82	6.9299
200	0.71629	2650.65	2865.54	7.3115	0.53422	2646.83	2860.51	7.1706
250	0.79636	2728.69	2967.59	7.5165	0.59512	2726.11	2964.16	7.3788
300	0.87529	2806.69	3069.28	7.7022	0.65484	2804.81	3066.75	7.5661
400	1.03151	2965.53	3274.98	8.0329	0.77262	2964.36	3273.41	7.8984
500	1.18669	3129.95	3485.96	8.3250	0.88934	3129.15	3484.89	8.1912
600	1.34136	3300.79	3703.20	8.5892	1.00555	3300.22	3702.44	8.4557
700	1.49573	3478.38	3927.10	8.8319	1.12147	3477.95	3926.53	8.6987
800	1.64994	3662.85	4157.83	9.0575	1.23722	3662.51	4157.40	8.9244
900	1.80406	3854.20	4395.42	9.2691	1.35288	3853.91	4395.06	9.1316
1000	1.95812	4052.27	4639.71	9.4689	1.46847	4052.02	4639.41	9.3360

Temp. °C	v (m³/kg)	u (kJ/kg)	h (kJ/kg)	s (kJ/kg K)	v (m³/kg)	u (kJ/kg)	h (kJ/kg)	s (kJ/kg K)
5 bar (151.86)		6 bar (158.85)						
Sat.	0.37413	2560.64	2747.7	6.8189	0.31478	2566.53	2755.4	6.7570
200	0.42492	2642.91	2855.37	7.0592	0.35202	2638.91	2850.12	6.9665
250	0.47436	2723.50	2960.68	7.2708	0.39383	2720.86	2957.16	7.1816
300	0.52256	2802.91	3064.20	7.4598	0.43437	2801.00	3061.63	7.3723
350	0.57012	2882.59	3167.65	7.6328	0.47424	2881.12	3165.66	7.5463
400	0.61728	2963.19	3271.83	7.7937	0.51372	2962.02	3270.25	7.7078
500	0.71093	3128.35	3483.82	8.0872	0.59199	3127.55	3482.75	8.0020
600	0.80406	3299.64	3701.67	8.3521	0.66974	3299.07	3700.91	8.2673
700	0.89691	3477.52	3925.97	8.5952	0.74720	3477.08	3925.41	8.5107
800	0.98959	3662.17	4156.96	8.8211	0.82450	3661.83	4156.52	8.7367
900	1.08217	3853.63	4394.71	9.0329	0.90169	3853.34	4394.36	8.9485
1000	1.17469	4051.76	4639.11	9.2328	0.97883	4051.51	4638.81	9.1484
8 bar (170.43)		10 bar (179.91)						
Sat.	0.23947	2575.73	2767.3	6.6587	0.19334	2584.56	2779.9	6.5819
200	0.26080	2630.61	2839.25	6.8158	0.20596	2621.90	2827.86	6.6939
250	0.29314	2715.46	2949.97	7.0384	0.23268	2709.91	2942.59	6.9246
300	0.32411	2797.14	3056.43	7.2327	0.25794	2793.21	3051.15	7.1228
350	0.35439	2878.16	3161.68	7.4088	0.28247	2875.18	3157.65	7.3010
400	0.38426	2959.66	3267.07	7.5715	0.30659	2957.29	3263.88	7.4650
500	0.44331	3125.95	3480.60	7.8672	0.35411	3124.34	3478.44	7.7621
600	0.50184	3297.91	3699.38	8.1332	0.40109	3296.76	3697.85	8.0289
700	0.56007	3476.22	3924.27	8.3770	0.44779	3475.35	3923.14	8.2731
800	0.61813	3661.14	4155.65	8.6033	0.49432	3660.46	4154.78	8.4996
900	0.67610	3852.77	4393.65	8.8153	0.54075	3852.19	4392.94	8.7118
1000	0.73401	4051.00	4638.20	9.0153	0.58712	4050.49	4637.60	8.9119
12 bar (187.99)		14 bar (195.07)						
Sat.	0.16292	2587.09	2782.6	6.5187	0.14028	2591.30	2787.7	6.4649
200	0.16930	2612.74	2815.90	6.5898	0.14302	2603.09	2803.32	6.4975
250	0.19235	2704.20	2935.01	6.8293	0.16350	2698.32	2927.22	6.7467
300	0.21382	2789.22	3045.80	7.0316	0.18228	2785.16	3040.35	6.9533
350	0.23452	2872.16	3153.59	7.2120	0.20026	2869.12	3149.49	7.1359
400	0.25480	2954.90	3260.66	7.3773	0.21780	2952.50	3257.42	7.3025
500	0.29463	3122.72	3476.28	7.6758	0.25215	3121.10	3474.11	7.6026
600	0.33393	3295.60	3696.32	7.9434	0.28596	3294.44	3694.78	7.8710
700	0.37294	3474.48	3922.01	8.1881	0.31947	3473.61	3920.87	8.1160
800	0.41177	3659.77	4153.90	8.4149	0.35281	3659.09	4153.03	8.3431
900	0.45051	3851.62	4392.23	8.6272	0.38606	3851.05	4391.53	8.5555
1000	0.48919	4049.98	4637.00	8.8274	0.41924	4049.47	4636.41	8.7558
16 bar (201.40)		18 bar (207.15)						
Sat.	0.12342	2594.43	2791.9	6.4169	0.11027	2596.42	2794.9	6.3747
250	0.14184	2692.26	2919.20	6.6732	0.12497	2686.02	2910.96	6.6066
300	0.15862	2781.03	3034.83	6.8844	0.14021	2776.83	3029.21	6.8226
350	0.17456	2866.05	3145.35	7.0693	0.15457	2862.95	3141.18	7.0099
400	0.19005	2950.09	3254.17	7.2373	0.16847	2947.66	3250.90	7.1793
500	0.22029	3119.47	3471.93	7.5389	0.19550	3117.84	3469.75	7.4824
600	0.24998	3293.27	3693.23	7.8080	0.22199	3292.10	3691.69	7.7523
700	0.27937	3472.74	3919.73	8.0535	0.24818	3471.87	3918.59	7.9983
800	0.30859	3658.40	4152.15	8.2808	0.27420	3657.71	4151.27	8.2258
900	0.33772	3850.47	4390.82	8.4934	0.30012	3849.90	4390.11	8.4386
1000	0.36678	4048.96	4635.81	8.6938	0.32598	4048.45	4635.21	8.6390

TABLE 3

Temp. °C	v (m <sup>3</sup> /kg)	u (kJ/kg)	h (kJ/kg)	s (kJ/kg K)	v (m <sup>3</sup> /kg)	u (kJ/kg)	h (kJ/kg)	s (kJ/kg K)
20 bar (212.42)					25 bar (223.99)			
Sat.	0.09937	2598.77	2797.5	6.3366	0.07971	2601.83	2801.1	6.2533
250	0.11144	2679.58	2902.46	6.5452	0.08700	2662.55	2880.06	6.4084
300	0.12547	2772.56	3023.50	6.7663	0.09890	2761.56	3008.81	6.6437
350	0.13857	2859.81	3136.96	6.9562	0.10976	2851.84	3126.24	6.8402
400	0.15120	2945.21	3247.60	7.1270	0.12010	2939.03	3239.28	7.0147
450	0.16353	3030.41	3357.48	7.2844	0.13014	3025.43	3350.77	7.1745
500	0.17568	3116.20	3467.55	7.4316	0.13998	3112.08	3462.04	7.3233
600	0.19960	3290.93	3690.14	7.7023	0.15930	3287.99	3686.25	7.5960
700	0.22323	3470.99	3917.45	7.9487	0.17832	3468.80	3914.59	7.8435
800	0.24668	3657.03	4150.40	8.1766	0.19716	3655.30	4148.20	8.0720
900	0.27004	3849.33	4389.40	8.3895	0.21590	3847.89	4387.64	8.2853
1000	0.29333	4047.94	4634.61	8.5900	0.23458	4046.67	4633.12	8.4860
30 bar (233.90)					35 bar (242.60)			
Sat.	0.06659	2602.61	2802.4	6.1836	0.05701	2602.36	2801.9	6.1226
250	0.07058	2644.00	2855.75	6.2871	0.05873	2623.65	2829.19	6.1748
300	0.08114	2750.05	2993.48	6.5389	0.06842	2737.99	2977.46	6.4460
350	0.09053	2843.66	3115.25	6.7427	0.07678	2835.27	3103.99	6.6578
400	0.09936	2932.75	3230.82	6.9211	0.08453	2926.37	3222.24	6.8404
450	0.10787	3020.38	3344.00	7.0833	0.09196	3015.28	3337.15	7.0051
500	0.11619	3107.92	3456.48	7.2337	0.09918	3103.73	3450.87	7.1571
600	0.13243	3285.03	3682.34	7.5084	0.11324	3282.06	3678.40	7.4338
700	0.14838	3466.59	3911.72	7.7571	0.12699	3464.37	3908.84	7.6837
800	0.16414	3653.58	4146.00	7.9862	0.14056	3651.84	4143.80	7.9135
900	0.17980	3846.46	4385.87	8.1999	0.15402	3845.02	4384.11	8.1275
1000	0.19541	4045.40	4631.63	8.4009	0.16743	4044.14	4630.14	8.3288
40 bar (250.40)					45 bar (257.48)			
Sat.	0.04967	2601.72	2800.4	6.0681	0.04394	2599.86	2797.6	6.0187
300	0.05884	2725.33	2960.68	6.3614	0.05135	2712.00	2943.07	6.2827
350	0.06645	2826.65	3092.43	6.5820	0.05840	2817.78	3080.57	6.5130
400	0.07341	2919.88	3213.51	6.7689	0.06475	2913.29	3204.65	6.7046
450	0.08003	3010.13	3330.23	6.9362	0.07074	3004.91	3323.23	6.8745
500	0.08643	3099.49	3445.21	7.0900	0.07651	3095.23	3439.51	7.0300
600	0.09885	3279.06	3674.44	7.3688	0.08765	3276.04	3670.47	7.3109
700	0.11095	3462.15	3905.94	7.6198	0.09847	3459.91	3903.04	7.5631
800	0.12287	3650.11	4141.59	7.8502	0.10911	3648.37	4139.38	7.7942
900	0.13469	3843.59	4382.34	8.0647	0.11965	3842.15	4380.58	8.0091
1000	0.14645	4042.87	4628.65	8.2661	0.13013	4041.61	4627.17	8.2108
50 bar (263.99)					60 bar (275.64)			
Sat.	0.03936	2597.42	2794.2	5.9734	0.03235	2590.97	2785.1	5.8904
300	0.04532	2697.94	2924.53	6.2083	0.03616	2667.22	2884.19	6.0673
350	0.05194	2808.67	3068.39	6.4492	0.04223	2789.61	3042.97	6.3334
400	0.05781	2906.58	3195.64	6.6458	0.04739	2892.81	3177.17	6.5407
450	0.06330	2999.64	3316.15	6.8185	0.05214	2988.90	3301.76	6.7192
500	0.06857	3090.92	3433.76	6.9758	0.05665	3082.20	3422.12	6.8802
550	0.07368	3181.82	3550.23	7.1217	0.06101	3174.57	3540.62	7.0287
600	0.07869	3273.01	3666.47	7.2588	0.06525	3266.89	3658.40	7.1676
700	0.08849	3457.67	3900.13	7.5122	0.07352	3453.15	3894.28	7.4234
800	0.09811	3646.62	4137.17	7.7440	0.08160	3643.12	4132.74	7.6566
900	0.10762	3840.71	4378.82	7.9593	0.08958	3837.84	4375.29	7.8727
1000	0.11707	4040.35	4625.69	8.1612	0.09749	4037.83	4622.74	8.0751

Temp. °C	v (m³/kg)	u (kJ/kg)	h (kJ/kg)	s (kJ/kg K)	v (m³/kg)	u (kJ/kg)	h (kJ/kg)	s (kJ/kg K)
70 bar (285.88)		80 bar (295.06)						
Sat.	0.02734	2582.01	2773.4	5.8158	0.02349	2572.08	2760.0	5.7472
300	0.02947	2632.13	2838.40	5.9304	0.02426	2590.93	2784.98	5.7905
350	0.03524	2769.34	3016.02	6.2282	0.02995	2747.67	2987.30	6.1300
400	0.03993	2878.55	3158.07	6.4477	0.03432	2863.75	3138.28	6.3633
450	0.04416	2977.91	3287.04	6.6326	0.03817	2966.66	3271.99	6.5550
500	0.04814	3073.33	3410.29	6.7974	0.04175	3064.30	3398.27	6.7239
550	0.05195	3167.21	3530.87	6.9486	0.04516	3159.76	3521.01	6.8778
600	0.05565	3260.69	3650.26	7.0894	0.04845	3254.43	3642.03	7.0205
700	0.06283	3448.60	3888.39	7.3476	0.05481	3444.00	3882.47	7.2812
800	0.06981	3639.61	4128.30	7.5822	0.06097	3636.08	4123.84	7.5173
900	0.07669	3834.96	4371.77	7.7991	0.06702	3832.08	4368.26	7.7350
1000	0.08350	4035.31	4619.80	8.0020	0.07301	4032.81	4616.87	7.9384
90 bar (303.40)		100 bar (311.06)						
Sat.	0.02048	2560.39	2744.7	5.6820	0.01801	2547.85	2727.9	5.6199
350	0.02580	2724.38	2956.55	6.0361	0.02242	2699.16	2923.39	5.9442
400	0.02993	2848.38	3117.76	6.2853	0.02641	2832.38	3096.46	6.2119
450	0.03355	2955.13	3256.59	6.4843	0.02975	2943.32	3240.83	6.4189
500	0.03677	3055.12	3386.05	6.6575	0.03279	3045.77	3373.63	6.5965
550	0.03987	3152.20	3511.02	6.8141	0.03564	3144.54	3500.92	6.7561
600	0.04285	3248.09	3633.73	6.9588	0.03837	3241.68	3625.34	6.9028
650	0.04574	3343.65	3755.32	7.0943	0.04101	3338.22	3748.27	7.0397
700	0.04857	3439.38	3876.51	7.2221	0.04358	3434.72	3870.52	7.1687
800	0.05409	3632.53	4119.38	7.4597	0.04859	3628.97	4114.91	7.4077
900	0.05950	3829.20	4364.74	7.6782	0.05349	3826.32	4361.24	7.6272
1000	0.06485	4030.30	4613.95	7.8821	0.05832	4027.81	4611.04	7.8315
125 bar (327.89)		150 bar (342.24)						
Sat.	0.01350	2509.70	2678.5	5.4709	0.01032	2460.50	2615.3	5.3181
350	0.01613	2624.57	2826.15	5.7117	0.01147	2520.36	2692.41	5.4420
400	0.02000	2789.25	3039.30	6.0416	0.01565	2740.70	2975.44	5.8810
450	0.02299	2912.44	3199.78	6.2718	0.01845	2879.47	3156.15	6.1403
500	0.02560	3021.68	3341.72	6.4617	0.02080	2996.52	3308.53	6.3442
550	0.02801	3124.94	3475.13	6.6289	0.02293	3104.71	3448.61	6.5198
600	0.03029	3225.37	3604.05	6.7810	0.02491	3208.64	3582.30	6.6775
650	0.03248	3324.43	3730.44	6.9218	0.02680	3310.37	3712.32	6.8223
700	0.03460	3422.93	3855.41	7.0536	0.02861	3410.94	3840.12	6.9572
800	0.03869	3620.02	4103.69	7.2965	0.03210	3610.99	4092.43	7.2040
900	0.04267	3819.11	4352.48	7.5181	0.03546	3811.89	4343.75	7.4279
1000	0.04658	4021.59	4603.81	7.7237	0.03875	4015.41	4596.63	7.6347
175 bar (354.75)		200 bar (365.81)						
Sat.	0.00792	2395.00	2533.6	5.1499	0.00588	2302.53	2420.1	4.9436
400	0.01245	2684.98	2902.82	5.7212	0.00994	2619.22	2818.07	5.5539
450	0.01517	2844.15	3109.69	6.0182	0.01270	2806.16	3060.06	5.9016
500	0.01736	2970.25	3274.02	6.2382	0.01477	2942.82	3238.18	6.1400
550	0.01929	3083.84	3421.37	6.4229	0.01656	3062.34	3393.45	6.3347
600	0.02106	3191.51	3560.13	6.5866	0.01818	3174.00	3537.57	6.5048
650	0.02274	3296.04	3693.94	6.7356	0.01969	3281.46	3675.32	6.6582
700	0.02434	3398.78	3824.67	6.8736	0.02113	3386.46	3809.09	6.7993
750	0.02588	3500.56	3953.48	7.0026	0.02251	3490.01	3940.27	6.9308
800	0.02738	3601.89	4081.13	7.1245	0.02385	3592.73	4066.98	7.0544
900	0.03031	3804.67	4335.05	7.3507	0.02645	3797.44	4326.37	7.2830
1000	0.03316	4009.25	4589.52	7.5588	0.02897	4003.12	4582.45	7.4925

TABLE 3

Temp. °C	v (m <sup>3</sup> /kg)	u (kJ/kg)	h (kJ/kg)	s (kJ/kg K)	v (m <sup>3</sup> /kg)	u (kJ/kg)	h (kJ/kg)	s (kJ/kg K)
250 bar					300 bar			
375	0.001973	1798.60	1847.93	4.0319	0.001789	1737.75	1791.43	3.9303
400	0.006004	2430.05	2580.16	5.1418	0.002790	2067.34	2151.04	4.4728
425	0.007882	2609.21	2806.25	5.4722	0.005304	2455.06	2614.17	5.1503
450	0.009162	2720.65	2949.70	5.6743	0.006735	2619.30	2821.35	5.4423
500	0.011124	2884.29	3162.39	5.9592	0.008679	2820.67	3081.03	5.7904
550	0.012724	3017.51	3335.62	6.1764	0.010168	2970.31	3275.36	6.0342
600	0.014138	3137.92	3491.36	6.3602	0.011446	3100.53	3443.91	6.2330
650	0.015433	3251.64	3637.46	6.5229	0.012596	3221.04	3598.93	6.4057
700	0.016647	3361.39	3777.56	6.6707	0.013661	3335.84	3745.67	6.5606

□□□

**TABLE 4**  
**Compressed Liquid Water**

Temp. C	v m <sup>3</sup> /kg	u kJ/kg	h kJ/kg	s kJ/kg K	v m <sup>3</sup> /kg	u kJ/kg	h kJ/kg	s kJ/kg K
50 bar (263.99)							100 bar (311.06)	
Sat.								
0	0.001286	1147.78	1154.21	2.9201	0.001452	1393.00	1407.53	3.3595
20	0.000998	0.03	5.02	0.0001	0.000995	0.10	10.05	0.0003
40	0.00100	83.64	88.64	0.2955	0.000997	83.35	93.32	0.2945
60	0.001006	166.93	171.95	0.5705	0.001003	166.33	176.36	0.5685
80	0.001015	250.21	255.28	0.8284	0.001013	249.34	259.47	0.8258
100	0.001027	333.69	338.83	1.0719	0.001025	332.56	342.81	1.0687
120	0.001041	417.50	422.71	1.3030	0.001039	416.09	426.48	1.2992
140	0.001058	501.79	507.07	1.5232	0.001055	500.07	510.61	1.5188
160	0.001077	586.74	592.13	1.7342	0.001074	584.67	595.40	1.7291
180	0.001099	672.61	678.10	1.9374	0.001095	670.11	681.07	1.9316
200	0.001124	759.62	765.24	2.1341	0.001120	756.63	767.83	2.1274
220	0.001153	848.08	853.85	2.3254	0.001148	844.49	855.97	2.3178
240	0.001187	938.43	944.36	2.5128	0.001181	934.07	945.88	2.5038
260	0.001226	1031.34	1037.47	2.6978	0.001219	1025.94	1038.13	2.6872
280	0.001275	1127.92	1134.30	2.8829	0.001265	1121.03	1133.68	2.8698
300					0.001322	1220.90	1234.11	3.0547
					0.001397	1328.34	1342.31	3.2468
150 bar (342.24)							200 bar (365.81)	
Sat.								
0	0.001658	1585.58	1610.45	3.6847	0.002035	1785.47	1826.18	4.0137
20	0.000993	0.15	15.04	0.0004	0.000990	0.20	20.00	0.0004
40	0.000995	83.05	97.97	0.2934	0.000993	82.75	102.61	0.2922
60	0.001001	165.73	180.75	0.5665	0.000999	165.15	185.14	0.5646
80	0.001011	248.49	263.65	0.8231	0.001008	247.66	267.82	0.8205
100	0.001022	331.46	346.79	1.0655	0.001020	330.38	350.78	1.0623
120	0.001036	414.72	430.26	1.2954	0.001034	413.37	434.04	1.2917
140	0.001052	498.39	514.17	1.5144	0.001050	496.75	517.74	1.5101
160	0.001071	582.64	598.70	1.7241	0.001068	580.67	602.03	1.7192
180	0.001092	667.69	684.07	1.9259	0.001089	665.34	687.11	1.9203
200	0.001116	753.74	770.48	2.1209	0.001112	750.94	773.18	2.1146
220	0.001143	841.04	858.18	2.3103	0.001139	837.70	860.47	2.3031
240	0.001175	929.89	947.52	2.4952	0.001169	925.89	949.27	2.4869
260	0.001211	1020.82	1038.99	2.6770	0.001205	1015.94	1040.04	2.6673
280	0.001255	1114.59	1133.41	2.8575	0.001246	1108.53	1133.45	2.8459
300	0.001308	1212.47	1232.09	3.0392	0.001297	1204.69	1230.62	3.0248
	0.001377	1316.58	1337.23	3.2259	0.001360	1306.10	1333.29	3.2071

Temp. C	v m <sup>3</sup> /kg	u kJ/kg	h kJ/kg	s kJ/kg K	v m <sup>3</sup> /kg	u kJ/kg	h kJ/kg	s kJ/kg K
	300 bar					500 bar		
0	0.000986	0.25	29.82	0.0001	0.000977	0.20	49.03	0.0014
20	0.000989	82.16	111.82	0.2898	0.000980	80.98	130.00	0.2847
40	0.000995	164.01	193.87	0.5606	0.000987	161.84	211.20	0.5526
60	0.001004	246.03	276.16	0.8153	0.000996	242.96	292.77	0.8051
80	0.001016	328.28	358.75	1.0561	0.001007	324.32	374.68	1.0439
100	0.001029	410.76	441.63	1.2844	0.001020	405.86	456.87	1.2703
120	0.001044	493.58	524.91	1.5017	0.001035	487.63	539.37	1.4857
140	0.001062	576.86	608.73	1.7097	0.001052	569.76	622.33	1.6915
160	0.001082	660.81	693.27	1.9095	0.001070	652.39	705.91	1.8890
180	0.001105	745.57	778.71	2.1024	0.001091	735.68	790.24	2.0793
200	0.001130	831.34	865.24	2.2892	0.001115	819.73	875.46	2.2634
220	0.001159	918.32	953.09	2.4710	0.001141	904.67	961.71	2.4419
240	0.001192	1006.84	1042.60	2.6489	0.001170	990.69	1049.20	2.6158
260	0.001230	1097.38	1134.29	2.8242	0.001203	1078.06	1138.23	2.7860
280	0.001275	1190.69	1228.96	2.9985	0.001242	1167.19	1229.26	2.9536
300	0.001330	1287.89	1327.80	3.1740	0.001286	1258.66	1322.95	3.1200

**TABLE 5**  
**CONVERSION FACTORS**

**Density :**

$$1 \text{ kg/m}^3 = 0.0624297 \text{ lbm/ft}^3$$

$$1 \text{ g/cm}^3 = 1000 \text{ kg/m}^3$$

$$1 \text{ g/cm}^3 = 1 \text{ kg/L}$$

**Energy :**

$$1 \text{ J} = 1 \text{ N} \cdot \text{m} = 1 \text{ kg} \cdot \text{m}^2/\text{s}^2$$

$$1 \text{ J} = 0.737562 \text{ lbf} \cdot \text{ft}$$

$$1 \text{ cal (Int.)} = 4.1868 \text{ J}$$

$$1 \text{ erg} = 1.0 \times 10^{-7} \text{ J}$$

**Gravitation :**

$$g = 9.80665 \text{ m/s}^2 = 32.17405 \text{ ft/s}^2$$

**Length :**

$$1 \text{ mm} = 0.001 \text{ m} = 0.1 \text{ cm}$$

$$1 \text{ cm} = 0.01 \text{ m} = 10 \text{ mm} = 0.3970 \text{ in.}$$

$$1 \text{ m} = 3.28084 \text{ ft} = 39.370 \text{ in.}$$

$$1 \text{ km} = 0.621371 \text{ mi}$$

$$1 \text{ mi} = 1609.3 \text{ m (US statute)}$$

$$1 \text{ ft} = 12 \text{ in.}$$

$$1 \text{ in.} = 2.54 \text{ cm} = 0.0254 \text{ m}$$

$$1 \text{ ft} = 0.3048 \text{ m}$$

$$1 \text{ mi} = 1.609344 \text{ km}$$

$$1 \text{ yd} = 0.9144 \text{ m}$$

**Specific volume :**

$$1 \text{ cm}^3/\text{g} = 0.001 \text{ m}^3/\text{kg}$$

$$1 \text{ cm}^3/\text{g} = 1 \text{ L/kg}$$

$$1 \text{ m}^3/\text{kg} = 16.01846 \text{ ft}^3/\text{lbm}$$

**Temperature :**

$$C = K - 273.15$$

$$= (F - 32)/1.8$$

$$K = R/1.8$$

**Volume :**

$$1 \text{ m}^3 = 35.3147 \text{ ft}^3$$

$$1 \text{ L} = 0.001 \text{ m}^3$$

$$1 \text{ Gal (US)} = 3.785412 \text{ L}$$

$$= 3.785412 \times 10^{-3} \text{ m}^3$$

**Mass :**

$$1 \text{ kg} = 2.204623 \text{ lbm}$$

$$1 \text{ tonne} = 1000 \text{ kg}$$

$$1 \text{ grain} = 6.47989 \times 10^{-5} \text{ kg}$$

$$1 \text{ lbm} = 0.453592 \text{ kg}$$

$$1 \text{ slug} = 14.5939 \text{ kg}$$

$$1 \text{ ton} = 2000 \text{ lbm}$$

**Pressure :**

$$1 \text{ Pa} = 1 \text{ N/m}^2 = 1 \text{ kg/ms}^{-2}$$

$$1 \text{ bar} = 1.0 \times 10^5 \text{ Pa} = 100 \text{ kPa}$$

$$1 \text{ atm} = 101.325 \text{ kPa}$$

$$= 1.01325 \text{ bar}$$

$$= 760 \text{ mm Hg [0°C]}$$

$$= 10.33256 \text{ m H}_2\text{O [4°C]}$$

$$1 \text{ torr} = 1 \text{ mm Hg [0°C]}$$

$$1 \text{ mm Hg [0°C]} = 0.133322 \text{ kPa}$$

$$1 \text{ m H}_2\text{O [4°C]} = 9.80638 \text{ kPa}$$

$$1 \text{ lbf/in.}^2 = 6.894757 \text{ kPa}$$

$$1 \text{ atm} = 14.69594 \text{ lbf/in.}^2$$

$$= 29.921 \text{ in. Hg [32 F]}$$

$$= 33.8995 \text{ ft H}_2\text{O [4°C]}$$

**Specific energy :**

$$1 \text{ kJ/kg} = 0.42992 \text{ Btu/lbm}$$

$$= 334.55 \text{ lbf-ft/lbm}$$

