

TABLE A.2 TWO-PHASE, BY PRESSURE

Press. kPa <i>P</i>	Temp. °C <i>T</i>	Specific Volume, m ³ /kg		Internal Energy		Enthalpy, kJ/kg			Entropy, kJ/kg K	
		Sat. Liquid <i>v_f</i>	Sat. Vapor <i>v_g</i>	Sat. Liquid <i>u_f</i>	Sat. Vapor <i>u_g</i>	Sat. Liquid <i>h_f</i>	Evap. <i>h_{fg}</i>	Sat. Vapor <i>h_g</i>	Sat. Liquid <i>s_f</i>	Sat. Vapor <i>s_g</i>
0.6113	0.01	0.001000	206.132	0	2375.3	0.00	2501.3	2501.3	0	9.1562
1.0	6.98	0.001000	129.208	29.29	2385.0	29.29	2484.9	2514.2	0.1059	8.9756
1.5	13.03	0.001001	87.980	54.70	2393.3	54.70	2470.6	2525.3	0.1956	8.8278
2.0	17.50	0.001001	67.004	73.47	2399.5	73.47	2460.0	2533.5	0.2607	8.7236
2.5	21.08	0.001002	54.254	88.47	2404.4	88.47	2451.6	2540.0	0.3120	8.6431
3.0	24.08	0.001003	45.665	101.03	2408.5	101.03	2444.5	2545.5	0.3545	8.5775
4.0	28.96	0.001004	34.800	121.44	2415.2	121.44	2432.9	2554.4	0.4226	8.4746
5.0	32.88	0.001005	28.193	137.79	2420.5	137.79	2423.7	2561.4	0.4763	8.3950
7.5	40.29	0.001008	19.238	168.76	2430.5	168.77	2406.0	2574.8	0.5763	8.2514
10.0	45.81	0.001010	14.674	191.79	2437.9	191.81	2392.8	2584.6	0.6492	8.1501
15.0	53.97	0.001014	10.022	225.90	2448.7	225.91	2373.1	2599.1	0.7548	8.0084
20.0	60.06	0.001017	7.649	251.35	2456.7	251.38	2358.3	2609.7	0.8319	7.9085
25.0	64.97	0.001020	6.204	271.88	2463.1	271.90	2346.3	2618.2	0.8930	7.8313
30.0	69.10	0.001022	5.229	289.18	2468.4	289.21	2336.1	2625.3	0.9439	7.7686
40.0	75.87	0.001026	3.993	317.51	2477.0	317.55	2319.2	2636.7	1.0258	7.6700
50.0	81.33	0.001030	3.240	340.42	2483.8	340.47	2305.4	2645.9	1.0910	7.5939
75.0	91.77	0.001037	2.217	384.29	2496.7	384.36	2278.6	2663.0	1.2129	7.4563
MPa										
0.100	99.62	0.001043	1.6940	417.33	2506.1	417.44	2258.0	2675.5	1.3025	7.3593
0.125	105.99	0.001048	1.3749	444.16	2513.5	444.30	2241.1	2685.3	1.3739	7.2843
0.150	111.37	0.001053	1.1593	466.92	2519.6	467.08	2226.5	2693.5	1.4335	7.2232
0.175	116.06	0.001057	1.0036	486.78	2524.9	486.97	2213.6	2700.5	1.4848	7.1717
0.200	120.23	0.001061	0.8857	504.47	2529.5	504.68	2202.0	2706.6	1.5300	7.1271
0.225	124.00	0.001064	0.7933	520.45	2533.6	520.69	2191.3	2712.0	1.5705	7.0878
0.250	127.43	0.001067	0.7187	535.08	2537.2	535.34	2181.5	2716.9	1.6072	7.0526
0.275	130.60	0.001070	0.6573	548.57	2540.5	548.87	2172.4	2721.3	1.6407	7.0208
0.300	133.55	0.001073	0.6058	561.13	2543.6	561.45	2163.9	2725.3	1.6717	6.9918
0.325	136.30	0.001076	0.5620	572.88	2546.3	573.23	2155.8	2729.0	1.7005	6.9651
0.350	138.88	0.001079	0.5243	583.93	2548.9	584.31	2148.1	2732.4	1.7274	6.9404
0.375	141.32	0.001081	0.4914	594.38	2551.3	594.79	2140.8	2735.6	1.7527	6.9174
0.40	143.63	0.001084	0.4625	604.29	2553.6	604.73	2133.8	2738.5	1.7766	6.8958
0.45	147.93	0.001088	0.4140	622.75	2557.6	623.24	2120.7	2743.9	1.8206	6.8565
0.50	151.86	0.001093	0.3749	639.66	2561.2	640.21	2108.5	2748.7	1.8606	6.8212
0.55	155.48	0.001097	0.3427	655.30	2564.5	655.91	2097.0	2752.9	1.8972	6.7892
0.60	158.85	0.001101	0.3157	669.88	2567.4	670.54	2086.3	2756.8	1.9311	6.7600
0.65	162.01	0.001104	0.2927	683.55	2570.1	684.26	2076.0	2760.3	1.9627	6.7330
0.70	164.97	0.001108	0.2729	696.43	2572.5	697.20	2066.3	2763.5	1.9922	6.7080
0.75	167.77	0.001111	0.2556	708.62	2574.7	709.45	2057.0	2766.4	2.0199	6.6846
0.80	170.43	0.001115	0.2404	720.20	2576.8	721.10	2048.0	2769.1	2.0461	6.6627
0.85	172.96	0.001118	0.2270	731.25	2578.7	732.20	2039.4	2771.6	2.0709	6.6421
0.90	175.38	0.001121	0.2150	741.81	2580.5	742.82	2031.1	2773.9	2.0946	6.6225
0.95	177.69	0.001124	0.2042	751.94	2582.1	753.00	2023.1	2776.1	2.1171	6.6040
1.00	179.91	0.001127	0.19444	761.67	2583.6	762.79	2015.3	2778.1	2.1386	6.5864

TABLE A.2 (continued)

Press. MPa <i>P</i>	Temp. °C <i>T</i>	Specific Volume, m ³ /kg		Internal Energy		Enthalpy, kJ/kg		Entropy, kJ/kg K		
		Sat. Liquid <i>v_f</i>	Sat. Vapor <i>v_g</i>	Sat. Liquid <i>u_f</i>	Sat. Vapor <i>u_g</i>	Sat. Liquid <i>h_f</i>	Evap. <i>h_{fg}</i>	Sat. Vapor <i>h_g</i>	Sat. Liquid <i>s_f</i>	Sat. Vapor <i>s_g</i>
1.10	184.09	0.001133	0.17753	780.08	2586.4	781.32	2000.4	2781.7	2.1791	6.5535
1.20	187.99	0.001139	0.16333	797.27	2588.8	798.64	1986.2	2784.8	2.2165	6.5233
1.30	191.64	0.001144	0.15125	813.42	2590.9	814.91	1972.7	2787.6	2.2514	6.4953
1.40	195.07	0.001149	0.14084	828.68	2592.8	830.29	1959.7	2790.0	2.2842	6.4692
1.50	198.32	0.001154	0.13177	843.14	2594.5	844.87	1947.3	2792.1	2.3150	6.4448
1.75	205.76	0.001166	0.11349	876.44	2597.8	878.48	1918.0	2796.4	2.3851	6.3895
2.00	212.42	0.001177	0.09963	906.42	2600.3	908.77	1890.7	2799.5	2.4473	6.3408
2.25	218.45	0.001187	0.08875	933.81	2602.0	936.48	1865.2	2801.7	2.5034	6.2971
2.50	223.99	0.001197	0.07998	959.09	2603.1	962.09	1841.0	2803.1	2.5546	6.2574
2.75	229.12	0.001207	0.07275	982.65	2603.8	985.97	1817.9	2803.9	2.6018	6.2208
3.00	233.90	0.001216	0.06668	1004.76	2604.1	1008.41	1795.7	2804.1	2.6456	6.1869
3.25	238.38	0.001226	0.06152	1025.62	2604.0	1029.60	1774.4	2804.0	2.6866	6.1551
3.50	242.60	0.001235	0.05707	1045.41	2603.7	1049.73	1753.7	2803.4	2.7252	6.1252
4.0	250.40	0.001252	0.049778	1082.28	2602.3	1087.29	1714.1	2801.4	2.7963	6.0700
5.0	263.99	0.001286	0.039441	1147.78	2597.1	1154.21	1640.1	2794.3	2.9201	5.9733
6.0	275.64	0.001319	0.032440	1205.41	2589.7	1213.32	1571.0	2784.3	3.0266	5.8891
7.0	285.88	0.001351	0.027370	1257.51	2580.5	1266.97	1505.1	2772.1	3.1210	5.8132
8.0	295.06	0.001384	0.023518	1305.54	2569.8	1316.61	1441.3	2757.9	3.2067	5.7431
9.0	303.40	0.001418	0.020484	1350.47	2557.8	1363.23	1378.9	2742.1	3.2857	5.6771
10.0	311.06	0.001452	0.018026	1393.00	2544.4	1407.53	1317.1	2724.7	3.3595	5.6140
11.0	318.15	0.001489	0.015987	1433.68	2529.7	1450.05	1255.5	2705.6	3.4294	5.5527
12.0	324.75	0.001527	0.014263	1472.92	2513.7	1491.24	1193.6	2684.8	3.4961	5.4923
13.0	330.93	0.001567	0.012780	1511.09	2496.1	1531.46	1130.8	2662.2	3.5604	5.4323
14.0	336.75	0.001611	0.011485	1548.53	2476.8	1571.08	1066.5	2637.5	3.6231	5.3716
15.0	342.24	0.001658	0.010338	1585.58	2455.4	1610.45	1000.0	2610.5	3.6847	5.3097
16.0	347.43	0.001711	0.009306	1622.63	2431.7	1650.00	930.6	2580.6	3.7460	5.2454
17.0	352.37	0.001770	0.008365	1660.16	2405.0	1690.25	856.9	2547.2	3.8078	5.1776
18.0	357.06	0.001840	0.007490	1698.86	2374.3	1731.97	777.1	2509.1	3.8713	5.1044
19.0	361.54	0.001924	0.006657	1739.87	2338.1	1776.43	688.1	2464.5	3.9387	5.0227
20.0	365.81	0.002035	0.005834	1785.47	2293.1	1826.18	583.6	2409.7	4.0137	4.9269
21.0	369.89	0.002206	0.004953	1841.97	2230.7	1888.30	446.4	2334.7	4.1073	4.8015
22.0	373.80	0.002808	0.003526	1973.16	2081.4	2034.92	124.0	2159.0	4.3307	4.5224
22.09	374.14	0.003155	0.003155	2029.58	2029.6	2099.26	0	2099.3	4.4297	4.4297