

TABLE 3. THERMODYNAMIC PROPERTIES OF WATER AT SATURATION^a (Continued)

FAHR. TEMP. (°F)	ABSOLUTE PRESSURE p_a		SPECIFIC VOLUME, CU FT PER LB			ENTHALPY, BTU PER LB			ENTROPY, BTU PER (LB) (°F)			FAHR. TEMP. (°F)
	Lb/Sq In.	In. Hg	Sat. Liquid v_f	Evap. $v_{fg} \times 10^{-3}$	Sat. Vapor $v_g \times 10^{-3}$	Sat. Liquid h_f	Evap. h_{fg}	Sat. Vapor h_g	Sat. Liquid s_f	Evap. s_{fg}	Sat. Vapor s_g	
0	0.01849	0.03704	0.01742	14.81	14.81	-158.08	1220.07	1001.09	-0.3244	2.6541	2.3297	0
1	0.01948	0.03966	0.01742	14.08	14.08	-158.51	1220.04	1001.53	-0.3234	2.6483	2.3249	1
2	0.02052	0.04178	0.01742	13.40	13.40	-158.04	1220.01	1001.97	-0.3224	2.6425	2.3201	2
3	0.02161	0.04400	0.01743	12.75	12.75	-157.50	1219.97	1002.41	-0.3213	2.6367	2.3154	3
4	0.02276	0.04633	0.01743	12.14	12.14	-157.09	1219.94	1002.85	-0.3203	2.6309	2.3106	4
5	0.02396	0.04878	0.01743	11.55	11.55	-156.61	1219.90	1003.29	-0.3193	2.6252	2.3059	5
6	0.02521	0.05134	0.01743	11.00	11.00	-156.14	1219.88	1003.74	-0.3182	2.6194	2.3012	6
7	0.02653	0.05402	0.01743	10.48	10.48	-155.66	1219.84	1004.18	-0.3172	2.6138	2.2966	7
8	0.02791	0.05683	0.01743	9.979	9.979	-155.18	1219.80	1004.62	-0.3162	2.6081	2.2919	8
9	0.02936	0.05977	0.01744	9.507	9.507	-154.70	1219.76	1005.06	-0.3152	2.6025	2.2873	9
10	0.03087	0.06286	0.01744	9.060	9.060	-154.22	1219.72	1005.50	-0.3142	2.5969	2.2827	10
11	0.03246	0.06608	0.01744	8.636	8.636	-153.74	1219.68	1005.94	-0.3131	2.5912	2.2781	11
12	0.03412	0.06946	0.01744	8.234	8.234	-153.26	1219.64	1006.38	-0.3121	2.5857	2.2736	12
13	0.03585	0.07300	0.01744	7.851	7.851	-152.77	1219.59	1006.82	-0.3111	2.5801	2.2690	13
14	0.03767	0.07669	0.01744	7.489	7.489	-152.29	1219.55	1007.26	-0.3101	2.5746	2.2645	14
15	0.03957	0.08056	0.01744	7.144	7.144	-151.80	1219.50	1007.70	-0.3090	2.5690	2.2600	15
16	0.04156	0.08461	0.01745	6.817	6.817	-151.32	1219.46	1008.14	-0.3080	2.5635	2.2555	16
17	0.04363	0.08884	0.01745	6.505	6.505	-150.83	1219.41	1008.58	-0.3070	2.5581	2.2511	17
18	0.04581	0.09326	0.01745	6.210	6.210	-150.34	1219.36	1009.02	-0.3060	2.5526	2.2466	18
19	0.04808	0.09789	0.01745	5.929	5.929	-149.85	1219.31	1009.46	-0.3049	2.5471	2.2422	19
20	0.05045	0.1027	0.01745	5.662	5.662	-149.36	1219.26	1009.90	-0.3039	2.5417	2.2378	20
21	0.05293	0.1078	0.01745	5.408	5.408	-148.87	1219.21	1010.34	-0.3029	2.5364	2.2335	21
22	0.05552	0.1130	0.01746	5.166	5.166	-148.38	1219.16	1010.78	-0.3019	2.5310	2.2291	22
23	0.05823	0.1186	0.01746	4.936	4.936	-147.88	1219.10	1011.22	-0.3008	2.5256	2.2248	23
24	0.06105	0.1243	0.01746	4.717	4.717	-147.39	1219.05	1011.66	-0.2998	2.5203	2.2205	24
25	0.06400	0.1303	0.01746	4.509	4.509	-146.89	1218.98	1012.09	-0.2988	2.5150	2.2162	25
26	0.06708	0.1366	0.01746	4.311	4.311	-146.40	1218.93	1012.53	-0.2978	2.5097	2.2119	26
27	0.07030	0.1431	0.01746	4.122	4.122	-145.90	1218.87	1012.97	-0.2968	2.5045	2.2077	27
28	0.07365	0.1500	0.01746	3.943	3.943	-145.40	1218.81	1013.41	-0.2957	2.4991	2.2034	28
29	0.07715	0.1571	0.01747	3.771	3.771	-144.90	1218.75	1013.85	-0.2947	2.4939	2.1992	29
30	0.08080	0.1646	0.01747	3.608	3.608	-144.40	1218.69	1014.29	-0.2937	2.4887	2.1950	30
31	0.08461	0.1723	0.01747	3.453	3.453	-143.90	1218.63	1014.73	-0.2927	2.4835	2.1908	31
32	0.08858	0.1803	0.01747	3.305	3.305	-143.40	1218.56	1015.16	-0.2916	2.4783	2.1867	32

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	Lb/Sq In.	In. Hg	Sat. Liquid v_f	Evap. v_{fg}	Sat. Vapor v_g	Sat. Liquid h_f	Evap. h_{fg}	Sat. Vapor h_g	Sat. Liquid s_f	Evap. s_{fg}	Sat. Vapor s_g	
32*	0.088580	0.18036	0.01602	3304.6	3304.6	0.00	1075.16	1075.16	0.00000	2.1867	2.1867	32*
33	0.092227	0.18778	0.01602	3180.5	3180.5	1.01	1074.59	1075.60	0.00205	2.1811	2.1831	33
34	0.095999	0.19546	0.01602	3061.7	3061.7	2.01	1074.03	1076.04	0.00409	2.1755	2.1796	34
35	0.099908	0.20342	0.01602	2947.8	2947.8	3.02	1073.46	1076.48	0.00612	2.1700	2.1761	35
36	0.10396	0.21166	0.01602	2838.7	2838.7	4.02	1072.90	1076.92	0.00815	2.1644	2.1726	36
37	0.10815	0.22020	0.01602	2734.1	2734.1	5.03	1072.33	1077.36	0.01018	2.1589	2.1691	37
38	0.11249	0.22904	0.01602	2633.8	2633.8	6.03	1071.77	1077.80	0.01220	2.1535	2.1657	38
39	0.11699	0.23819	0.01602	2537.6	2537.6	7.04	1071.20	1078.24	0.01422	2.1480	2.1622	39
40	0.12164	0.24767	0.01602	2445.4	2445.4	8.04	1070.64	1078.68	0.01623	2.1426	2.1588	40
41	0.12646	0.25748	0.01602	2356.9	2356.9	9.05	1070.06	1079.11	0.01824	2.1372	2.1554	41
42	0.13145	0.26763	0.01602	2272.0	2272.0	10.05	1069.50	1079.55	0.02024	2.1318	2.1520	42
43	0.13660	0.27813	0.01602	2190.5	2190.5	11.05	1068.94	1079.99	0.02224	2.1265	2.1487	43
44	0.14194	0.28899	0.01602	2112.3	2112.3	12.06	1068.37	1080.43	0.02423	2.1211	2.1453	44
45	0.14746	0.30023	0.01602	2037.3	2037.3	13.06	1067.81	1080.87	0.02622	2.1158	2.1420	45
46	0.15317	0.31185	0.01602	1965.2	1965.2	14.06	1067.24	1081.30	0.02820	2.1105	2.1387	46
47	0.15907	0.32387	0.01602	1896.0	1896.0	15.06	1066.68	1081.74	0.03018	2.1052	2.1354	47
48	0.16517	0.33629	0.01602	1829.5	1829.5	16.07	1066.11	1082.18	0.03216	2.0999	2.1321	48
49	0.17148	0.34913	0.01602	1765.7	1765.7	17.07	1065.55	1082.62	0.03413	2.0947	2.1288	49
50	0.17799	0.36240	0.01602	1704.3	1704.3	18.07	1064.99	1083.06	0.03610	2.0895	2.1256	50
51	0.18473	0.37611	0.01602	1645.4	1645.4	19.07	1064.42	1083.49	0.03806	2.0842	2.1223	51
52	0.19169	0.39028	0.01602	1588.7	1588.7	20.07	1063.86	1083.93	0.04002	2.0791	2.1191	52
53	0.19888	0.40492	0.01603	1534.3	1534.3	21.07	1063.30	1084.37	0.04197	2.0739	2.1159	53
54	0.20630	0.42003	0.01603	1481.9	1481.9	22.08	1062.72	1084.80	0.04392	2.0688	2.1127	54
55	0.21397	0.43564	0.01603	1431.5	1431.5	23.08	1062.16	1085.24	0.04587	2.0637	2.1096	55
56	0.22188	0.45176	0.01603	1383.1	1383.1	24.08	1061.60	1085.68	0.04781	2.0586	2.1064	56
57	0.23006	0.46840	0.01603	1336.5	1336.5	25.08	1061.04	1086.12	0.04975	2.0535	2.1033	57
58	0.23849	0.48558	0.01603	1291.7	1291.7	26.08	1060.47	1086.55	0.05168	2.0485	2.1002	58
59	0.24720	0.50330	0.01603	1248.6	1248.6	27.08	1059.91	1086.99	0.05361	2.0434	2.0970	59
60	0.25618	0.52160	0.01603	1207.1	1207.1	28.08	1059.34	1087.42	0.05553	2.0385	2.0940	60
61	0.26545	0.54047	0.01604	1167.2	1167.2	29.08	1058.78	1087.86	0.05746	2.0334	2.0909	61

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*Extrapolated to represent metastable equilibrium with undercooled liquid.