

TABLE 2. 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}	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	0.083586	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	2.1765	2.1796	34
35	0.099908	0.20342	0.01602	2947.8	2947.8	3.02	1073.46	1078.48	0.00612	2.1700	2.1761	35
36	0.10396	0.21160	0.01602	2838.7	2838.7	4.02	1072.90	1079.92	0.00815	2.1644	2.1728	36
37	0.10815	0.22020	0.01602	2734.1	2734.1	5.03	1072.33	1077.35	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	0.23810	0.01602	2537.6	2537.6	7.04	1071.20	1078.24	0.01422	2.1480	2.1622	39
40	0.12164	0.24737	0.01602	2445.4	2445.4	8.04	1070.64	1078.68	0.01623	2.1426	2.1588	40
41	0.12646	0.25688	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	0.27953	0.01602	2190.5	2190.5	11.05	1068.93	1079.98	0.02226	2.1265	2.1467	43
44	0.14194	0.29269	0.01602	2112.3	2112.3	12.08	1068.37	1080.43	0.02428	2.1213	2.1415	44
45	0.14746	0.30703	0.01602	2037.3	2037.3	13.08	1067.81	1080.87	0.02629	2.1161	2.1363	45
46	0.15317	0.31185	0.01602	1965.2	1965.2	14.08	1067.24	1081.30	0.02822	2.1109	2.1307	46
47	0.15907	0.32387	0.01602	1896.0	1896.0	15.08	1066.68	1081.74	0.03018	2.1057	2.1252	47
48	0.16517	0.33629	0.01602	1829.5	1829.5	16.07	1066.11	1082.18	0.03216	2.0999	2.1194	48
49	0.17146	0.34916	0.01602	1765.7	1765.7	17.07	1065.55	1082.62	0.03413	2.0947	2.1138	49
50	0.17799	0.36240	0.01602	1704.3	1704.3	18.07	1064.98	1083.05	0.03610	2.0895	2.1080	50
51	0.18473	0.37611	0.01602	1645.4	1645.4	19.07	1064.42	1083.49	0.03806	2.0842	2.1023	51
52	0.19169	0.39028	0.01602	1588.7	1588.7	20.07	1063.86	1083.93	0.04002	2.0791	2.1119	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	1062.15	1085.24	0.04587	2.0637	2.1096	55
56	0.22188	0.45176	0.01603	1383.1	1383.1	24.08	1061.58	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

^aCompiled by John A. Goff and S. Gratch.^bExtrapolated to represent metastable equilibrium with undertooled liquid.TABLE 2. THERMODYNAMIC PROPERTIES OF WATER AT SATURATION^a (Continued)

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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	
62	0.27502	0.55904	0.01604	1128.7	1128.7	30.08	1058.22	1088.30	0.05937	2.0284	2.0878	62
63	0.28488	0.58002	0.01604	1091.7	1091.7	31.08	1057.65	1088.73	0.06129	2.0235	2.0848	63
64	0.29505	0.60209	0.01604	1056.1	1056.1	32.08	1057.09	1089.17	0.06320	2.0186	2.0818	64
65	0.30554	0.62509	0.01604	1021.7	1021.7	33.08	1056.52	1089.60	0.06510	2.0136	2.0787	65
66	0.31636	0.64411	0.01604	988.63	988.63	34.07	1055.97	1090.04	0.06700	2.0087	2.0757	66
67	0.32760	0.66881	0.01605	956.78	956.78	35.07	1055.40	1090.47	0.06890	2.0039	2.0728	67
68	0.33930	0.69021	0.01605	926.08	926.08	36.07	1054.82	1090.89	0.07080	1.9990	2.0698	68
69	0.35094	0.71432	0.01605	896.47	896.47	37.07	1054.27	1091.34	0.07269	1.9941	2.0668	69
70	0.36300	0.73916	0.01605	867.95	867.95	38.07	1053.71	1091.78	0.07458	1.9893	2.0639	70
71	0.37561	0.76476	0.01605	840.45	840.45	39.07	1053.14	1092.21	0.07646	1.9845	2.0610	71
72	0.38856	0.79113	0.01606	813.95	813.97	40.07	1052.58	1092.65	0.07834	1.9797	2.0580	72
73	0.40189	0.81828	0.01606	788.33	788.40	41.07	1052.01	1093.08	0.08022	1.9749	2.0551	73
74	0.41564	0.84628	0.01606	763.52	763.59	42.07	1051.45	1093.52	0.08209	1.9701	2.0522	74
75	0.42979	0.87509	0.01606	739.65	739.72	43.08	1050.89	1093.95	0.08396	1.9653	2.0493	75
76	0.44435	0.90472	0.01606	717.01	717.03	44.06	1050.32	1094.38	0.08582	1.9607	2.0465	76
77	0.45932	0.93524	0.01607	694.88	694.90	45.06	1049.76	1094.82	0.08769	1.9560	2.0437	77
78	0.47478	0.96666	0.01607	673.52	673.54	46.06	1049.19	1095.26	0.08954	1.9513	2.0408	78
79	0.49069	0.99900	0.01607	652.63	652.63	47.06	1048.62	1095.69	0.09140	1.9466	2.0380	79
80	0.50706	1.03232	0.01608	632.11	632.11	48.06	1048.07	1096.12	0.09325	1.9419	2.0352	80
81	0.52382	1.0666	0.01608	613.80	613.82	49.05	1047.50	1096.55	0.09510	1.9373	2.0324	81
82	0.54112	1.1017	0.01608	595.25	595.27	50.05	1046.93	1096.98	0.09694	1.9328	2.0297	82
83	0.55892	1.1380	0.01608	577.34	577.36	51.05	1046.36	1097.42	0.09878	1.9281	2.0269	83
84	0.57722	1.1762	0.01608	560.04	560.06	52.05	1045.80	1097.85	0.10062	1.9236	2.0242	84
85	0.59604	1.2158	0.01609	543.33	543.35	53.05	1045.23	1098.28	0.10246	1.9189	2.0214	85
86	0.61540	1.2560	0.01609	527.21	527.21	54.04	1044.67	1098.71	0.10429	1.9144	2.0187	86
87	0.63530	1.2985	0.01609	511.60	511.62	55.04	1044.10	1099.14	0.10611	1.9099	2.0160	87
88	0.65576	1.3431	0.01610	496.54	496.54	56.04	1043.53	1099.58	0.10794	1.9054	2.0133	88
89	0.67678	1.3779	0.01610	481.96	481.98	57.04	1042.97	1100.01	0.10978	1.9008	2.0106	89
90	0.69838	1.4219	0.01610	467.88	467.90	58.04	1042.40	1100.44	0.11158	1.8963	2.0079	90
91	0.72059	1.4671	0.01610	454.28	454.28	59.03	1041.84	1100.87	0.11339	1.8919	2.0053	91

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