

TABLE 3. THERMODYNAMIC PROPERTIES OF WATER AT SATURATION* (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 w _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	Sat. Liquid v _f	Evap. v _{fg}	Sat. Vapor v _g	
82	0.7502	0.4904	0.01604	1128.7	1128.7	30.08	1055.22	1085.30	0.01620	1.937	2.0875	0.01620	1.937	2.0875	82
83	0.7492	0.4894	0.01604	1091.7	1091.7	31.08	1057.65	1088.73	0.01620	1.937	2.0875	0.01620	1.937	2.0875	83
84	0.7482	0.4884	0.01604	1056.1	1056.1	32.08	1059.99	1089.07	0.01620	1.937	2.0875	0.01620	1.937	2.0875	84
85	0.7472	0.4874	0.01604	1021.7	1021.7	33.08	1062.32	1089.40	0.01620	1.937	2.0875	0.01620	1.937	2.0875	85
86	0.7462	0.4864	0.01604	988.63	988.63	34.07	1064.64	1089.72	0.01620	1.937	2.0875	0.01620	1.937	2.0875	86
87	0.7452	0.4854	0.01604	956.78	956.78	35.07	1066.96	1090.04	0.01620	1.937	2.0875	0.01620	1.937	2.0875	87
88	0.7442	0.4844	0.01604	926.05	926.05	36.07	1069.28	1090.36	0.01620	1.937	2.0875	0.01620	1.937	2.0875	88
89	0.7432	0.4834	0.01604	896.47	896.47	37.07	1071.60	1090.68	0.01620	1.937	2.0875	0.01620	1.937	2.0875	89
90	0.7422	0.4824	0.01604	868.05	868.05	38.07	1073.92	1091.00	0.01620	1.937	2.0875	0.01620	1.937	2.0875	90
91	0.7412	0.4814	0.01604	840.77	840.77	39.07	1076.24	1091.32	0.01620	1.937	2.0875	0.01620	1.937	2.0875	91
92	0.7402	0.4804	0.01604	813.55	813.55	40.07	1078.56	1091.64	0.01620	1.937	2.0875	0.01620	1.937	2.0875	92
93	0.7392	0.4794	0.01604	788.38	788.38	41.07	1080.88	1091.96	0.01620	1.937	2.0875	0.01620	1.937	2.0875	93
94	0.7382	0.4784	0.01604	763.73	763.73	42.07	1083.20	1092.28	0.01620	1.937	2.0875	0.01620	1.937	2.0875	94
95	0.7372	0.4774	0.01604	739.87	739.87	43.07	1085.52	1092.60	0.01620	1.937	2.0875	0.01620	1.937	2.0875	95
96	0.7362	0.4764	0.01604	717.01	717.01	44.07	1087.84	1092.92	0.01620	1.937	2.0875	0.01620	1.937	2.0875	96
97	0.7352	0.4754	0.01604	694.83	694.83	45.07	1090.16	1093.24	0.01620	1.937	2.0875	0.01620	1.937	2.0875	97
98	0.7342	0.4744	0.01604	673.82	673.82	46.07	1092.48	1093.56	0.01620	1.937	2.0875	0.01620	1.937	2.0875	98
99	0.7332	0.4734	0.01604	653.91	653.91	47.07	1094.80	1093.88	0.01620	1.937	2.0875	0.01620	1.937	2.0875	99
100	0.7322	0.4724	0.01604	634.01	634.01	48.07	1097.12	1094.20	0.01620	1.937	2.0875	0.01620	1.937	2.0875	100
101	0.7312	0.4714	0.01604	614.10	614.10	49.07	1099.44	1094.52	0.01620	1.937	2.0875	0.01620	1.937	2.0875	101
102	0.7302	0.4704	0.01604	594.20	594.20	50.07	1101.76	1094.84	0.01620	1.937	2.0875	0.01620	1.937	2.0875	102
103	0.7292	0.4694	0.01604	574.30	574.30	51.07	1104.08	1095.16	0.01620	1.937	2.0875	0.01620	1.937	2.0875	103
104	0.7282	0.4684	0.01604	554.40	554.40	52.07	1106.40	1095.48	0.01620	1.937	2.0875	0.01620	1.937	2.0875	104
105	0.7272	0.4674	0.01604	534.50	534.50	53.07	1108.72	1095.80	0.01620	1.937	2.0875	0.01620	1.937	2.0875	105
106	0.7262	0.4664	0.01604	514.60	514.60	54.07	1111.04	1096.12	0.01620	1.937	2.0875	0.01620	1.937	2.0875	106
107	0.7252	0.4654	0.01604	494.70	494.70	55.07	1113.36	1096.44	0.01620	1.937	2.0875	0.01620	1.937	2.0875	107
108	0.7242	0.4644	0.01604	474.80	474.80	56.07	1115.68	1096.76	0.01620	1.937	2.0875	0.01620	1.937	2.0875	108
109	0.7232	0.4634	0.01604	454.90	454.90	57.07	1118.00	1097.08	0.01620	1.937	2.0875	0.01620	1.937	2.0875	109
110	0.7222	0.4624	0.01604	435.00	435.00	58.07	1120.32	1097.40	0.01620	1.937	2.0875	0.01620	1.937	2.0875	110
111	0.7212	0.4614	0.01604	415.10	415.10	59.07	1122.64	1097.72	0.01620	1.937	2.0875	0.01620	1.937	2.0875	111
112	0.7202	0.4604	0.01604	395.20	395.20	60.07	1124.96	1098.04	0.01620	1.937	2.0875	0.01620	1.937	2.0875	112
113	0.7192	0.4594	0.01604	375.30	375.30	61.07	1127.28	1098.36	0.01620	1.937	2.0875	0.01620	1.937	2.0875	113
114	0.7182	0.4584	0.01604	355.40	355.40	62.07	1129.60	1098.68	0.01620	1.937	2.0875	0.01620	1.937	2.0875	114
115	0.7172	0.4574	0.01604	335.50	335.50	63.07	1131.92	1099.00	0.01620	1.937	2.0875	0.01620	1.937	2.0875	115
116	0.7162	0.4564	0.01604	315.60	315.60	64.07	1134.24	1099.32	0.01620	1.937	2.0875	0.01620	1.937	2.0875	116
117	0.7152	0.4554	0.01604	295.70	295.70	65.07	1136.56	1099.64	0.01620	1.937	2.0875	0.01620	1.937	2.0875	117
118	0.7142	0.4544	0.01604	275.80	275.80	66.07	1138.88	1099.96	0.01620	1.937	2.0875	0.01620	1.937	2.0875	118
119	0.7132	0.4534	0.01604	255.90	255.90	67.07	1141.20	1100.28	0.01620	1.937	2.0875	0.01620	1.937	2.0875	119
120	0.7122	0.4524	0.01604	236.00	236.00	68.07	1143.52	1100.60	0.01620	1.937	2.0875	0.01620	1.937	2.0875	120
121	0.7112	0.4514	0.01604	216.10	216.10	69.07	1145.84	1100.92	0.01620	1.937	2.0875	0.01620	1.937	2.0875	121
122	0.7102	0.4504	0.01604	196.20	196.20	70.07	1148.16	1101.24	0.01620	1.937	2.0875	0.01620	1.937	2.0875	122
123	0.7092	0.4494	0.01604	176.30	176.30	71.07	1150.48	1101.56	0.01620	1.937	2.0875	0.01620	1.937	2.0875	123
124	0.7082	0.4484	0.01604	156.40	156.40	72.07	1152.80	1101.88	0.01620	1.937	2.0875	0.01620	1.937	2.0875	124
125	0.7072	0.4474	0.01604	136.50	136.50	73.07	1155.12	1102.20	0.01620	1.937	2.0875	0.01620	1.937	2.0875	125

* Compiled by John A. Goff and S. Gratch.

TABLE 3. THERMODYNAMIC PROPERTIES OF WATER AT SATURATION* (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	Sat. Liquid v _f	Evap. v _{fg}	Sat. Vapor v _g	
92	0.74340	1.5136	0.01611	441.10	441.12	60.03	1041.37	1101.30	0.11620	1.874	2.0026	0.11620	1.874	2.0026	92
93	0.74384	1.5013	0.01611	428.38	428.40	61.03	1040.70	1101.73	0.11701	1.880	2.0050	0.11701	1.880	2.0050	93
94	0.74428	1.4890	0.01611	415.07	415.09	62.03	1040.03	1102.16	0.11781	1.886	1.9974	0.11781	1.886	1.9974	94
95	0.74472	1.4767	0.01612	401.77	401.79	63.03	1039.36	1102.59	0.11861	1.892	1.9948	0.11861	1.892	1.9948	95
96	0.74516	1.4644	0.01612	388.47	388.49	64.03	1038.69	1103.02	0.11941	1.898	1.9922	0.11941	1.898	1.9922	96
97	0.74560	1.4521	0.01612	375.17	375.19	65.03	1038.02	1103.45	0.12021	1.904	1.9896	0.12021	1.904	1.9896	97
98	0.74604	1.4398	0.01612	361.87	361.89	66.03	1037.35	1103.88	0.12101	1.910	1.9870	0.12101	1.910	1.9870	98
99	0.74648	1.4275	0.01613	348.57	348.59	67.03	1036.68	1104.31	0.12181	1.916	1.9844	0.12181	1.916	1.9844	99
100	0.74692	1.4152	0.01613	335.27	335.29	68.03	1036.01	1104.74	0.12261	1.922	1.9818	0.12261	1.922	1.9818	100
101	0.74736	1.4029	0.01613	321.97	321.99	69.03	1035.34	1105.17	0.12341	1.928	1.9792	0.12341	1.928	1.9792	101
102	0.74780	1.3906	0.01614	308.67	308.69	70.03	1034.67	1105.60	0.12421	1.934	1.9766	0.12421	1.934	1.9766	102
103	0.74824	1.3783	0.01614	295.37	295.39	71.03	1034.00	1106.03	0.12501	1.940	1.9740	0.12501	1.940	1.9740	103
104	0.74868	1.3660	0.01614	282.07	282.09	72.03	1033.33	1106.46	0.12581	1.946	1.9714	0.12581	1.946	1.9714	104
105	0.74912	1.3537	0.01615	268.77	268.79	73.03	1032.66	1106.89	0.12661	1.952	1.9688	0.12661	1.952	1.9688	105
106	0.74956	1.3414	0.01615	255.47	255.49	74.03	1031.99	1107.32	0.12741	1.958	1.9662	0.12741	1.958	1.9662	106
107	0.75000	1.3291	0.01616	242.17	242.19	75.03	1031.32	1107.75	0.12821	1.964	1.9636	0.12821	1.964	1.9636	107
108	0.75044	1.3168	0.01616	228.87	228.89	76.03	1030.65	1108.18	0.12901	1.970	1.9610	0.12901	1.970	1.9610	108
109	0.75088	1.3045	0.01616	215.57	215.59	77.03	1029.98	1108.61	0.12981	1.976	1.9584	0.12981	1.976	1.9584	109
110	0.75132	1.2922	0.01617	202.27	202.29	78.00	1029.31	1109.04	0.13061	1.982	1.9558	0.13061	1.982	1.9558	110
111	0.75176	1.2799	0.01617	188.97	188.99	79.00	1028.64	1109.47	0.13141	1.988	1.9532	0.13141	1.988	1.9532	111
112	0.75220	1.2676	0.01617	175.67	175.69	80.00	1027.97	1109.90	0.13221	1.994	1.9506	0.13221	1.994	1.9506	112
113	0.75264	1.2553	0.01618	162.37	162.39	80.99	1027.30	1110.33	0.13301	1.999	1.9480	0.13301	1.999	1.9480	113
114	0.75308	1.2430	0.01618	149.07	149.09	81.99	1026.63	1110.76	0.13381	2.005	1.9454	0.13381	2.005	1.9454	114
115	0.75352	1.2307	0.01618	135.77	135.79	82.99	1025.96	1111.19	0.13461	2.011	1.9428	0.13461	2.011	1.9428	115
116	0.75396	1.2184	0.01619	122.47	122.49	83.99	1025.29	1111.62	0.13541	2.017	1.9402	0.13541	2.017	1.9402	116
117	0.75440	1.2061	0.01619	109.17	109.19	84.99	1024.62	1112.05	0.13621	2.023	1.9376	0.13621	2.023	1.9376	117
118	0.75484	1.1938	0.01620	95.87	95.89	85.99	1023.95	1112.48	0.13701	2.029	1.9350	0.13701	2.029	1.9350	118
119	0.75528	1.1815	0.01620	82.57	82.59	86.99	1023.28	1112.91	0.13781	2.035	1.9324	0.13781	2.035	1.9324	119
120	0.75572	1.1692	0.01621	69.27	69.29	87.98	1022.61	1113.34	0.13861	2.041	1.9298	0.13861	2.041	1.9298	120
121	0.75616	1.1569	0.01621	55.97	55.99	88.98	1021.94	1113.77	0.13941	2.047	1.9272	0.13941	2.047	1.9272	121