

TABLE 3. THERMODYNAMIC PROPERTIES OF WATER AT SATURATION* (Concluded)

FABR. TEMP. t (°F)	ABSOLUTE PRESSURE p _s		SPECIFIC VOLUME, CU FT PER LB			ENTHALPY, BTU PER LB			ENTROPY, BTU PER (LB) (°F)			FABR. TEMP. t (°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	
182	7.8514	15.986	0.01632	48.168	48.168	150.02	988.72	1138.74	0.28955	1.5408	1.8301	182
183	8.0258	16.341	0.01632	47.187	47.203	151.02	988.12	1139.14	0.28957	1.5391	1.8303	183
184	8.2058	16.703	0.01633	46.229	46.246	152.03	987.50	1139.53	0.28959	1.5374	1.8305	184
185	8.3845	17.071	0.01634	45.294	45.311	153.03	986.89	1139.92	0.28961	1.5357	1.8307	185
186	8.5638	17.446	0.01634	44.381	44.398	154.04	986.28	1140.32	0.28963	1.5340	1.8309	186
187	8.7555	17.829	0.01635	43.489	43.506	155.04	985.67	1140.71	0.28965	1.5323	1.8311	187
188	8.9476	18.216	0.01635	42.619	42.636	156.04	985.07	1141.11	0.28967	1.5306	1.8313	188
189	9.1403	18.604	0.01636	41.769	41.786	157.04	984.46	1141.50	0.28969	1.5289	1.8315	189
190	9.3433	19.014	0.01637	40.939	40.956	158.04	983.85	1141.89	0.28971	1.5272	1.8317	190
191	9.5470	19.428	0.01638	40.128	40.145	159.04	983.24	1142.28	0.28973	1.5255	1.8319	191
192	9.7473	19.846	0.01638	39.337	39.354	160.05	982.61	1142.67	0.28975	1.5238	1.8321	192
193	9.9563	20.271	0.01639	38.563	38.580	161.05	982.00	1143.06	0.28977	1.5221	1.8323	193
194	10.1699	20.704	0.01640	37.807	37.824	162.07	981.38	1143.45	0.28979	1.5204	1.8325	194
195	10.3886	21.145	0.01640	37.069	37.086	163.08	980.76	1143.84	0.28981	1.5187	1.8327	195
196	10.6006	21.594	0.01641	36.345	36.362	164.08	980.15	1144.23	0.28983	1.5170	1.8329	196
197	10.8000	22.050	0.01641	35.643	35.660	165.08	979.54	1144.62	0.28985	1.5153	1.8331	197
198	11.0000	22.515	0.01642	34.954	34.971	166.09	978.93	1145.01	0.28987	1.5136	1.8333	198
199	11.2000	22.987	0.01643	34.281	34.298	167.09	978.32	1145.40	0.28989	1.5119	1.8335	199
200	11.4000	23.465	0.01643	33.623	33.640	168.10	977.71	1145.79	0.28991	1.5102	1.8337	200
201	11.6000	23.957	0.01644	32.980	32.997	169.11	977.10	1146.18	0.28993	1.5085	1.8339	201
202	12.011	24.455	0.01645	32.351	32.368	170.11	976.49	1146.57	0.28995	1.5068	1.8341	202
203	12.290	24.961	0.01645	31.737	31.754	171.12	975.88	1146.96	0.28997	1.5051	1.8343	203
204	12.570	25.476	0.01646	31.133	31.150	172.13	975.27	1147.35	0.28999	1.5034	1.8345	204
205	12.850	25.991	0.01647	30.539	30.556	173.14	974.66	1147.74	0.29001	1.5017	1.8347	205
206	13.031	26.522	0.01647	29.954	29.971	174.15	974.05	1148.13	0.29003	1.5000	1.8349	206
207	13.297	27.074	0.01648	29.413	29.430	175.16	973.44	1148.52	0.29005	1.4983	1.8351	207
208	13.568	27.625	0.01649	28.893	28.910	176.17	972.83	1148.91	0.29007	1.4966	1.8353	208
209	13.843	28.185	0.01649	28.396	28.413	177.18	972.22	1149.30	0.29009	1.4949	1.8355	209
210	14.123	28.754	0.01650	27.901	27.918	178.19	971.61	1149.69	0.29011	1.4932	1.8357	210
211	14.407	29.333	0.01651	27.406	27.423	179.20	971.00	1150.08	0.29013	1.4915	1.8359	211
212	14.696	29.921	0.01651	26.911	26.928	180.21	970.39	1150.47	0.29015	1.4898	1.8361	212

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

TABLE 4. PROPERTIES OF SATURATED STEAM: PRESSURE TABLE*

STEAM TABLE										
Abs. Press. In. Hg p	TEMP F t	SPECIFIC VOLUME		ENTHALPY			ENTROPY			Abs. Press. In. Hg p
		Sat. Liquid v _f	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	
0.25	40.23	0.01602	2423.7	8.28	1071.1	1079.4	0.0166	2.1423	2.1589	
0.50	58.80	0.01604	1256.4	26.86	1060.6	1087.5	0.0632	2.0453	2.0985	0.25
0.75	70.43	0.01606	856.1	38.47	1054.0	1092.3	0.0754	1.9881	2.0635	0.50
1.00	79.03	0.01608	652.3	47.05	1049.2	1096.3	0.0914	1.9473	2.0387	0.75
1.5	91.72	0.01611	444.9	59.71	1042.0	1101.7	0.1147	1.8894	2.0041	1.00
2	101.14	0.01614	339.2	69.10	1036.6	1105.7	0.1316	1.8481	1.9797	1.5
4	125.43	0.01622	176.7	93.34	1022.7	1116.0	0.1738	1.7476	1.9214	2
6	140.78	0.01630	120.72	108.67	1013.6	1122.3	0.1996	1.6881	1.8877	4
8	152.24	0.01635	92.16	120.13	1006.9	1127.0	0.2186	1.6454	1.8640	6
10	161.49	0.01640	74.76	129.38	1001.4	1130.8	0.2335	1.6121	1.8456	8
12	169.28	0.01644	63.03	137.18	996.7	1133.9	0.2460	1.5847	1.8307	10
14	176.05	0.01648	54.55	143.96	992.6	1136.6	0.2563	1.5613	1.8181	12
16	182.05	0.01652	48.14	149.98	988.9	1138.9	0.2662	1.5410	1.8072	14
18	187.45	0.01655	43.11	155.39	985.7	1141.1	0.2746	1.5231	1.7977	16
20	192.37	0.01658	39.07	160.33	982.7	1143.0	0.2822	1.5069	1.7891	18
22	196.90	0.01661	35.73	164.87	979.8	1144.7	0.2891	1.4923	1.7814	20
24	201.09	0.01664	32.94	169.09	977.2	1146.3	0.2955	1.4789	1.7744	22
26	205.00	0.01667	30.56	173.02	974.8	1147.8	0.3014	1.4665	1.7679	24
28	208.67	0.01669	28.52	176.72	972.5	1149.2	0.3069	1.4550	1.7619	26
30	212.13	0.01672	26.74	180.19	970.3	1150.5	0.3122	1.4442	1.7564	28
Lb/Sq In.										
14.696	212.00	0.01672	26.80	180.07	970.3	1150.4	0.3120	1.4446	1.7566	Lb/Sq In.
16	216.32	0.01674	24.75	184.42	967.6	1152.0	0.3184	1.4313	1.7497	14.696
18	222.41	0.01679	22.17	190.56	963.6	1154.2	0.3275	1.4128	1.7403	16
20	227.96	0.01683	20.089	196.16	960.1	1156.3	0.3356	1.3962	1.7319	18
22	233.07	0.01687	18.375	201.33	956.8	1158.1	0.3431	1.3811	1.7242	20
24	237.82	0.01691	16.938	206.14	953.7	1159.8	0.3500	1.3672	1.7172	22
26	242.25	0.01694	15.715	210.62	950.7	1161.3	0.3564	1.3544	1.7108	24
28	246.41	0.01698	14.663	214.83	947.9	1162.7	0.3623	1.3425	1.7048	26
30	250.33	0.01701	13.746	218.82	945.3	1164.1	0.3680	1.3313	1.6993	30
32	254.05	0.01704	12.926	222.59	942.8	1165.4	0.3733	1.3209	1.6941	32
34	257.58	0.01707	12.226	226.18	940.3	1166.5	0.3783	1.3110	1.6893	34
36	260.95	0.01709	11.588	229.60	938.0	1167.6	0.3831	1.3017	1.6848	36
38	264.16	0.01712	11.015	232.89	935.8	1168.7	0.3876	1.2929	1.6805	38
40	267.23	0.01715	10.498	236.03	933.7	1169.7	0.3919	1.2844	1.6763	40
42	270.21	0.01717	10.029	239.04	931.6	1170.7	0.3960	1.2764	1.6724	42
44	273.05	0.01720	9.601	241.95	929.6	1171.6	0.3999	1.2687	1.6687	44
46	275.80	0.01722	9.209	244.75	927.7	1172.4	0.4038	1.2613	1.6652	46
48	278.45	0.01725	8.848	247.47	925.8	1173.3	0.4075	1.2542	1.6617	48
50	281.01	0.01727	8.515	250.09	924.0	1174.1	0.4110	1.2474	1.6585	50
52	283.49	0.01729	8.208	252.63	922.2	1174.8	0.4144	1.2409	1.6553	52
54	285.90	0.01731	7.922	255.09	920.5	1175.6	0.4177	1.2346	1.6524	54
56	288.23	0.01733	7.656	257.50	918.8	1176.3	0.4209	1.2285	1.6494	56
58	290.50	0.01736	7.407	259.82	917.1	1176.9	0.4240	1.2226	1.6466	58
60	292.71	0.01738	7.175	262.09	915.5	1177.6	0.4270	1.2168	1.6438	60
62	294.85	0.01740	6.957	264.30	913.9	1178.2	0.4300	1.2112	1.6412	62
64	296.94	0.01742	6.752	266.45	912.3	1178.8	0.4328	1.2059	1.6387	64
66	298.99	0.01744	6.560	268.55	910.8	1179.4	0.4356	1.2006	1.6362	66
68	300.98	0.01746	6.378	270.60	909.4	1180.0	0.4383	1.1955	1.6338	68
70	302.82	0.01748	6.206	272.61	907.9	1180.6	0.4409	1.1906	1.6315	70
72	304.53	0.01750	6.044	274.57	906.5	1181.1	0.4433	1.1857	1.6292	72
74	306.18	0.01752	5.890	276.49	905.1	1181.6	0.4458	1.1810	1.6270	74
76	307.80	0.01754	5.743	278.37	903.7	1182.1	0.4481	1.1764	1.6248	76
78	309.29	0.01757	5.604	280.21	902.4	1182.6	0.4504	1.1720	1.6228	78
80	312.03	0.01757	5.472	282.02	901.1	1183.1	0.4531	1.1678	1.6207	80
82	313.74	0.01759	5.346	283.79	899.7	1183.5	0.4554	1.1633	1.6187	82
84	315.42	0.01761	5.226	285.53	898.5	1184.0	0.4576	1.1592	1.6168	84
86	317.07	0.01762	5.111	287.24	897.2	1184.4	0.4598	1.1551	1.6149	86
88	318.68	0.01764	5.001	288.91	895.9	1184.8	0.4620	1.1510	1.6130	88
90	320.27	0.01766	4.898	290.56	894.7	1185.3	0.4641	1.1471	1.6112	90
92	321.83	0.01768	4.796	292.18	893.5	1185.7	0.4661	1.1433	1.6094	92
94	323.36	0.01769	4.699	293.78	892.3	1186.1	0.4682	1.1394	1.6076	94
96	324.87	0.01771	4.608	295.34	891.1	1186.4	0.4702	1.1357	1.6060	96
100	326.35	0.01772	4.517	296.89	889.9	1186.8	0.4721	1.1322	1.6043	98
150	358.42	0.01800	3.015	298.40	888.8	1187.2	0.4740	1.1286	1.6028	150
200	381.79	0.01839	2.288	300.51	883.6	1194.1	0.5138	1.0556	1.5694	200
300	417.33	0.01890	1.5433	303.94	870.9	1204.5	0.6214	0.8630	1.4844	300
400	444.50	0.0193	1.1613	424.0	780.5	1204.5	0.6487	0.8147	1.4634	400
500	467.01	0.0197	0.9278	449.4	755.0	1204.4				500