

TABLE 6. PROPERTIES OF SATURATED WATER VAPOR WITH AIR, 0 F TO 200 F (PART II, CONTINUED)

Temp. F	PRESSURE OF SATURATED VAPOR		WEIGHT OF SATURATED VAPOR				VOLUME IN CU FT BAROMETER, 29.92 IN. Hg.		ENTHALPY PER LB		
	In. of Hg.	Lb per Sq In.	per Cu Ft		per lb of Dry Air		of 1 lb of Dry Air	of 1 lb of Dry Air + Vapor to Saturate it	Dry Air 0 F Datum	Vapor 32 F Datum	Dry Air with Vapor to Saturate it
			Pounds	Grains	Pounds	Grains					
140	5.8779	2.887	0.008116	56.81	0.1821	1094.7	15.10	18.79	33.61	1122.2	204.30
141	6.0306	2.962	0.008313	58.19	0.1870	1099.0	15.13	18.94	33.85	1122.7	210.11
142	6.1874	3.039	0.008516	59.61	0.1922	1103.5	15.16	19.10	34.09	1123.1	216.26
143	6.3482	3.118	0.008717	61.07	0.1975	1108.2	15.18	19.26	34.33	1123.6	222.53
144	6.5111	3.198	0.008923	62.53	0.2027	1112.9	15.21	19.43	34.57	1124.0	228.92
145	6.6781	3.280	0.009148	64.04	0.2078	1117.9	15.23	19.60	34.81	1124.5	235.76
146	6.8471	3.363	0.009366	65.56	0.2129	1122.2	15.25	19.78	35.05	1124.9	242.71
147	7.0222	3.449	0.009590	67.13	0.2179	1126.7	15.28	19.96	35.29	1125.4	250.02
148	7.1993	3.536	0.009817	68.72	0.2227	1131.4	15.30	20.15	35.53	1125.8	257.43
149	7.3805	3.625	0.010040	70.28	0.2275	1136.2	15.33	20.35	35.77	1126.3	265.20
150	7.5658	3.716	0.010284	71.99	0.2322	1141.1	15.35	20.55	36.02	1126.7	273.19
151	7.7551	3.809	0.010526	73.68	0.2369	1146.1	15.38	20.76	36.26	1127.2	281.54
152	7.9485	3.904	0.010772	75.40	0.2415	1151.2	15.40	20.97	36.50	1127.6	290.21
153	8.1460	4.001	0.011022	77.15	0.2461	1156.4	15.43	21.20	36.74	1128.1	299.25
154	8.3476	4.100	0.011279	78.95	0.2507	1161.6	15.45	21.43	36.98	1128.5	308.61
155	8.5532	4.201	0.011539	80.77	0.2552	1166.9	15.48	21.67	37.22	1129.0	318.34
156	8.7550	4.305	0.011807	82.65	0.2597	1172.3	15.50	21.93	37.46	1129.4	328.51
157	8.9788	4.410	0.012077	84.54	0.2642	1177.7	15.53	22.19	37.70	1129.9	339.04
158	9.1989	4.518	0.012354	86.48	0.2687	1183.2	15.56	22.46	37.94	1130.3	350.02
159	9.4206	4.627	0.012634	88.44	0.2732	1188.7	15.59	22.74	38.18	1130.8	361.36
160	9.6486	4.739	0.012919	90.43	0.2777	1194.2	15.61	23.03	38.43	1131.2	373.38
161	9.8807	4.853	0.013211	92.48	0.2822	1200.0	15.63	23.33	38.67	1131.7	385.76
162	10.1119	4.970	0.013509	94.56	0.2867	1205.8	15.66	23.65	38.91	1132.1	398.80
163	10.3461	5.088	0.013812	96.68	0.2912	1211.7	15.68	23.96	39.15	1132.5	412.34
164	10.5808	5.210	0.014120	98.84	0.2957	1217.7	15.71	24.28	39.39	1133.0	426.42
165	10.8600	5.334	0.014434	101.0	0.3002	1223.8	15.73	24.69	39.63	1133.5	441.34
166	11.117	5.460	0.014753	103.3	0.3047	1230.0	15.76	25.07	39.87	1133.9	456.81
167	11.379	5.589	0.015080	105.6	0.3092	1236.2	15.78	25.46	40.11	1134.4	473.11
168	11.646	5.720	0.015410	107.9	0.3137	1242.5	15.81	25.88	40.35	1134.8	490.18
169	11.919	5.854	0.015750	110.3	0.3182	1248.8	15.83	26.31	40.59	1135.3	508.11
170	12.198	5.990	0.016092	112.6	0.3227	1255.2	15.86	26.77	40.83	1135.7	526.91
171	12.480	6.130	0.016444	115.1	0.3272	1261.7	15.88	27.24	41.07	1136.2	546.79
172	12.765	6.272	0.016801	117.7	0.3317	1268.2	15.91	27.74	41.32	1136.6	567.68
173	13.055	6.417	0.017164	120.3	0.3362	1274.7	15.93	28.25	41.56	1137.1	589.76
174	13.349	6.565	0.017534	122.7	0.3407	1281.2	15.96	28.78	41.80	1137.5	613.03

*Compiled by W. M. Sawdon, vapor pressures converted from International Critical Tables.

TABLE 6. PROPERTIES OF SATURATED WATER VAPOR WITH AIR, 0 F TO 200 F (PART II, CONCLUDED)

Temp. F	PRESSURE OF SATURATED VAPOR		WEIGHT OF SATURATED VAPOR				VOLUME IN CU FT BAROMETER, 29.92 IN. Hg.		ENTHALPY PER LB		
	In. of Hg.	Lb per Sq In.	per Cu Ft		per lb of Dry Air		of 1 lb of Dry Air	of 1 lb of Dry Air + Vapor to Saturate it	Dry Air 0 F Datum	Vapor 32 F Datum	Dry Air with Vapor to Saturate it
			Pounds	Grains	Pounds	Grains					
175	13.874	6.716	0.017914	125.4	0.5235	3684.5	15.98	29.43	42.04	1138.0	637.78
176	14.185	6.860	0.018294	128.1	0.5469	3767.9	16.01	30.05	42.28	1138.4	663.73
177	14.503	7.005	0.018684	130.8	0.5697	3857.9	16.03	30.71	42.52	1138.8	691.35
178	14.827	7.154	0.019089	133.6	0.5949	3954.9	16.06	31.41	42.76	1139.2	720.53
179	15.154	7.305	0.019477	136.3	0.6215	4059.5	16.08	32.15	43.00	1139.6	751.36
180	15.480	7.450	0.019868	139.2	0.6501	4170.7	16.11	32.94	43.24	1140.0	784.48
181	15.832	7.600	0.020239	142.1	0.6805	4288.5	16.13	33.78	43.49	1140.4	819.74
182	16.181	7.754	0.020604	145.1	0.7131	4413.7	16.16	34.68	43.73	1140.8	857.45
183	16.537	7.912	0.020979	148.1	0.7484	4547.8	16.18	35.65	43.97	1141.2	897.00
184	16.897	8.074	0.021359	151.2	0.7864	4691.8	16.21	36.67	44.21	1141.6	941.14
185	17.260	8.240	0.021745	154.3	0.8258	4846.9	16.23	37.78	44.45	1142.0	987.93
186	17.627	8.410	0.022137	157.5	0.8673	5014.1	16.26	38.98	44.69	1142.4	1038.21
187	17.997	8.584	0.022534	160.7	0.9112	5194.4	16.28	40.27	44.93	1142.8	1092.51
188	18.370	8.762	0.022936	164.0	0.9573	5388.7	16.31	41.67	45.18	1143.2	1151.58
189	18.746	8.944	0.023342	167.3	1.0067	5597.8	16.34	43.04	45.42	1143.6	1216.04
190	19.124	9.130	0.023752	170.7	1.0587	5821.0	16.36	44.55	45.66	1144.0	1285.37
191	19.504	9.319	0.024167	174.1	1.1134	6060.4	16.39	46.10	45.90	1144.4	1360.78
192	19.886	9.512	0.024586	177.7	1.1708	6317.9	16.41	47.69	46.14	1144.8	1443.21
193	20.269	9.708	0.025009	181.3	1.2310	6594.4	16.44	49.33	46.38	1145.2	1532.88
194	20.654	9.907	0.025436	185.0	1.2941	6891.9	16.46	51.03	46.62	1145.6	1630.85
195	21.040	10.108	0.025867	188.6	1.3603	7212.4	16.49	52.78	46.86	1146.0	1737.86
196	21.428	10.312	0.026302	192.3	1.4297	7567.9	16.51	54.58	47.10	1146.4	1854.86
197	21.818	10.519	0.026741	196.1	1.5024	7949.4	16.54	56.43	47.34	1146.8	1982.86
198	22.210	10.728	0.027184	200.0	1.5786	8357.9	16.56	58.33	47.58	1147.2	2121.86
199	22.604	10.939	0.027631	203.9	1.6584	8794.4	16.59	60.28	47.83	1147.6	2271.86
200	23.000	11.152	0.028082	207.9	1.7418	9259.9	16.61	62.28	48.07	1148.0	2443.86

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