

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	0.1521	1084.7	15.10	18.79	33.61	1122.2	204.30	
141	6.0306	2.962	0.008313	58.19	0.1570	1099.0	15.13	18.94	33.85	1122.7	210.11	
142	6.1874	3.039	0.008516	59.61	0.1622	1113.5	15.16	19.10	34.09	1123.1	216.26	
143	6.3482	3.118	0.008724	61.07	0.1675	1127.5	15.18	19.26	34.33	1123.6	222.53	
144	6.5111	3.198	0.008933	62.53	0.1730	1141.0	15.20	19.43	34.57	1124.0	229.02	
145	6.6781	3.280	0.009148	64.04	0.1787	1155.0	15.23	19.60	34.81	1124.5	235.76	
146	6.8471	3.363	0.009366	65.56	0.1846	1169.2	15.25	19.78	35.05	1125.0	242.71	
147	7.0222	3.449	0.009590	67.13	0.1908	1183.5	15.28	19.96	35.29	1125.4	249.80	
148	7.1993	3.538	0.009817	68.72	0.1971	1197.7	15.30	20.15	35.53	1125.8	257.03	
149	7.3805	3.625	0.010040	70.33	0.2037	1212.0	15.33	20.35	35.77	1126.3	264.43	
150	7.5658	3.716	0.010284	71.99	0.2105	1226.5	15.35	20.55	36.02	1126.7	272.19	
151	7.7551	3.809	0.010528	73.68	0.2176	1241.0	15.38	20.76	36.26	1127.2	280.21	
152	7.9485	3.904	0.010772	75.40	0.2250	1255.5	15.40	20.97	36.50	1127.6	288.45	
153	8.1460	4.001	0.011022	77.15	0.2327	1270.0	15.43	21.20	36.74	1128.1	296.92	
154	8.3476	4.100	0.011279	78.95	0.2407	1284.9	15.45	21.43	36.98	1128.5	305.61	
155	8.5532	4.201	0.011539	80.77	0.2490	1299.0	15.48	21.67	37.22	1129.0	314.54	
156	8.7630	4.305	0.011807	82.65	0.2577	1313.5	15.50	21.93	37.46	1129.4	323.71	
157	8.9768	4.410	0.012077	84.54	0.2667	1328.0	15.53	22.19	37.70	1129.8	333.11	
158	9.1946	4.518	0.012354	86.48	0.2761	1342.5	15.56	22.46	37.94	1130.3	342.74	
159	9.4206	4.627	0.012634	88.44	0.2858	1357.0	15.58	22.74	38.18	1130.8	352.61	
160	9.6496	4.739	0.012919	90.43	0.2961	1371.5	15.61	23.03	38.43	1131.2	362.73	
161	9.8807	4.853	0.013211	92.48	0.3067	1386.0	15.63	23.33	38.67	1131.7	373.08	
162	10.1119	4.970	0.013509	94.56	0.3179	1400.5	15.66	23.65	38.91	1132.1	383.66	
163	10.381	5.089	0.013812	96.68	0.3295	1415.0	15.68	23.98	39.15	1132.5	394.47	
164	10.608	5.210	0.014120	98.84	0.3416	1429.5	15.71	24.33	39.39	1133.0	405.51	
165	10.860	5.334	0.014434	101.0	0.3544	1444.0	15.73	24.69	39.63	1133.5	416.78	
166	11.117	5.460	0.014753	103.3	0.3677	1458.5	15.76	25.07	39.87	1134.0	428.28	
167	11.379	5.589	0.015080	105.6	0.3817	1473.0	15.78	25.46	40.11	1134.5	440.01	
168	11.646	5.720	0.015410	107.9	0.3964	1487.5	15.81	25.88	40.35	1135.0	451.96	
169	11.919	5.854	0.015750	110.3	0.4118	1502.0	15.83	26.31	40.59	1135.5	464.11	
170	12.196	5.990	0.016092	112.6	0.4280	1516.5	15.86	26.77	40.83	1136.0	476.47	
171	12.480	6.130	0.016444	115.1	0.4451	1531.0	15.88	27.24	41.07	1136.5	489.04	
172	12.770	6.272	0.016801	117.6	0.4631	1545.5	15.91	27.74	41.32	1137.0	501.82	
173	13.065	6.417	0.017164	120.1	0.4821	1560.0	15.93	28.28	41.56	1137.5	514.81	
174	13.366	6.565	0.017534	122.7	0.5022	1574.5	15.96	28.84	41.80	1138.0	528.05	

*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	13.674	6.716	0.017914	125.4	0.5235	3664.5	15.98	29.43	42.04	1138.0	637.78	
176	13.985	6.869	0.018264	128.1	0.5469	3821.5	16.01	30.05	42.28	1138.4	647.73	
177	14.303	7.025	0.018684	130.8	0.5697	3987.9	16.03	30.71	42.52	1138.9	657.95	
178	14.627	7.184	0.019080	133.6	0.5949	4164.3	16.06	31.41	42.76	1139.3	668.45	
179	14.954	7.345	0.019477	136.3	0.6215	4350.5	16.08	32.15	43.00	1139.8	679.14	
180	15.290	7.510	0.019888	139.2	0.6501	4550.7	16.11	32.94	43.24	1140.2	690.00	
181	15.632	7.678	0.020304	142.1	0.6805	4763.5	16.13	33.78	43.49	1140.7	701.14	
182	15.981	7.849	0.020729	145.1	0.7131	4991.7	16.16	34.68	43.73	1141.1	712.55	
183	16.337	8.024	0.021159	148.1	0.7481	5236.7	16.19	35.65	43.97	1141.6	724.21	
184	16.697	8.201	0.021598	151.2	0.7854	5497.8	16.21	36.67	44.21	1142.0	736.14	
185	17.066	8.382	0.022045	154.3	0.8258	5760.6	16.23	37.78	44.45	1142.5	748.34	
186	17.440	8.566	0.022497	157.5	0.8693	6035.1	16.26	38.98	44.69	1143.0	760.79	
187	17.821	8.753	0.022956	160.7	0.9162	6321.1	16.28	40.27	44.93	1143.4	773.45	
188	18.210	8.944	0.023424	164.0	0.9673	6619.1	16.31	41.67	45.18	1143.8	786.34	
189	18.605	9.138	0.023900	167.3	1.0227	6930.0	16.34	43.04	45.42	1144.3	799.45	
190	19.003	9.336	0.024384	170.7	1.0833	7261.0	16.36	44.85	45.66	1144.7	812.79	
191	19.419	9.538	0.024881	174.2	1.1500	7613.0	16.39	46.68	45.90	1145.2	826.34	
192	19.839	9.744	0.025380	177.7	1.2244	8000.0	16.41	48.70	46.14	1145.6	840.11	
193	20.266	9.954	0.025893	181.3	1.3068	8413.4	16.44	50.93	46.38	1146.1	854.11	
194	20.702	10.168	0.026413	184.9	1.3977	8850.0	16.46	53.42	46.62	1146.5	868.34	
195	21.144	10.385	0.026930	188.6	1.4999	9310.0	16.49	56.20	46.86	1147.0	882.81	
196	21.592	10.605	0.027472	192.3	1.6131	9790.0	16.51	59.31	47.10	1147.4	897.45	
197	22.048	10.829	0.028019	196.1	1.7374	10290.0	16.54	62.85	47.34	1147.9	912.34	
198	22.512	11.057	0.028571	200.0	1.8740	10810.0	16.56	66.88	47.59	1148.3	927.45	
199	22.984	11.289	0.029129	203.9	2.061	11350.0	16.59	71.54	47.83	1148.8	942.81	
200	23.465	11.525	0.029700	207.9	2.261	11910.0	16.61	76.99	48.07	1149.2	958.41	

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