

TABLE 6. PROPERTIES OF SATURATED WATER VAPOR WITH AIR, 0 F TO 200 F^a (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						
70	0.73666	0.3928	0.0011607	8.055	0.01574	110.2	13.34	13.68	16.79	1090.7	33.98	
71	0.75181	0.4032	0.0011684	8.319	0.01631	114.2	13.37	13.71	17.03	1091.2	34.83	
72	0.76708	0.4138	0.0011761	8.588	0.01688	118.2	13.40	13.75	17.27	1091.6	35.70	
73	0.78246	0.4246	0.0011839	8.867	0.01748	122.4	13.42	13.79	17.51	1092.1	36.60	
74	0.79794	0.4355	0.0011917	9.153	0.01809	126.6	13.44	13.83	17.75	1092.5	37.51	
75	0.81352	0.4465	0.0011995	9.448	0.01873	131.1	13.47	13.87	17.99	1093.0	38.46	
76	0.82920	0.4576	0.0012073	9.749	0.01938	135.7	13.49	13.91	18.23	1093.4	39.42	
77	0.84500	0.4688	0.0012151	10.056	0.02005	140.4	13.52	13.95	18.47	1093.9	40.40	
78	0.86082	0.4801	0.0012229	10.368	0.02075	145.3	13.54	13.99	18.71	1094.3	41.42	
79	0.87676	0.4915	0.0012307	10.685	0.02147	150.3	13.57	14.03	18.95	1094.8	42.46	
80	0.89282	0.5030	0.0012385	11.008	0.02221	155.5	13.59	14.08	19.19	1095.2	43.51	
81	0.90900	0.5146	0.0012463	11.336	0.02297	160.9	13.62	14.12	19.43	1095.7	44.57	
82	0.92530	0.5263	0.0012541	11.669	0.02375	166.4	13.64	14.16	19.67	1096.1	45.72	
83	0.94172	0.5381	0.0012619	12.007	0.02453	172.0	13.67	14.21	19.91	1096.6	46.88	
84	0.95826	0.5500	0.0012697	12.350	0.02533	177.8	13.69	14.26	20.15	1097.0	48.05	
85	0.97492	0.5620	0.0012775	12.698	0.02613	184.0	13.72	14.30	20.39	1097.5	49.24	
86	0.99170	0.5741	0.0012853	13.051	0.02695	190.3	13.74	14.34	20.63	1097.9	50.47	
87	1.00860	0.5863	0.0012931	13.409	0.02778	196.7	13.77	14.39	20.87	1098.4	51.74	
88	1.02562	0.5986	0.0013009	13.772	0.02862	203.3	13.79	14.44	21.11	1098.8	53.02	
89	1.04276	0.6110	0.0013087	14.140	0.02947	210.1	13.82	14.48	21.35	1099.3	54.35	
90	1.05992	0.6235	0.0013165	14.513	0.03032	217.1	13.84	14.53	21.59	1099.7	55.70	
91	1.07720	0.6361	0.0013243	14.891	0.03118	224.4	13.87	14.58	21.83	1100.2	57.09	
92	1.09460	0.6488	0.0013321	15.274	0.03205	231.8	13.89	14.63	22.07	1100.6	58.52	
93	1.11212	0.6616	0.0013399	15.661	0.03292	239.5	13.92	14.69	22.32	1101.1	59.99	
94	1.12976	0.6745	0.0013477	16.053	0.03380	247.5	13.94	14.73	22.56	1101.5	61.50	
95	1.14752	0.6875	0.0013555	16.450	0.03468	255.6	13.97	14.79	22.80	1102.0	63.05	
96	1.16540	0.7006	0.0013633	16.852	0.03557	264.0	13.99	14.84	23.04	1102.4	64.62	
97	1.18340	0.7138	0.0013711	17.259	0.03646	272.7	14.02	14.90	23.28	1102.9	66.25	
98	1.20152	0.7271	0.0013789	17.671	0.03736	281.7	14.04	14.95	23.52	1103.3	67.92	
99	1.21976	0.7405	0.0013867	18.088	0.03826	290.9	14.07	15.01	23.76	1103.8	69.63	
100	1.23812	0.7540	0.0013945	18.510	0.03917	300.5	14.10	15.07	24.00	1104.2	71.40	
101	1.25660	0.7676	0.0014023	18.937	0.04008	310.3	14.12	15.12	24.24	1104.7	73.21	
102	1.27520	0.7813	0.0014101	19.369	0.04099	320.4	14.15	15.18	24.48	1105.1	75.06	
103	1.29392	0.7951	0.0014179	19.806	0.04191	330.8	14.17	15.25	24.72	1105.6	76.97	
104	1.31276	0.8090	0.0014257	20.248	0.04283	341.5	14.20	15.31	24.96	1106.0	78.92	

^aCompiled 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^a (PART II, CONTINUED)

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	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						
105	2.2414	1.1009	0.0032786	22.95	0.05037	352.6	14.22	15.37	25.20	1106.5	80.93	
106	2.3070	1.1338	0.0033715	23.60	0.05200	364.0	14.25	15.44	25.44	1106.9	83.00	
107	2.3770	1.1675	0.0034650	24.26	0.05368	375.8	14.27	15.50	25.68	1107.4	85.13	
108	2.4473	1.2020	0.0035581	24.93	0.05541	387.9	14.30	15.57	25.92	1107.8	87.30	
109	2.5196	1.2375	0.0036503	25.62	0.05719	400.3	14.32	15.64	26.16	1108.3	89.54	
110	2.5939	1.2741	0.0037422	26.34	0.05904	413.3	14.35	15.71	26.40	1108.7	91.86	
111	2.6692	1.3111	0.0038340	27.07	0.06092	426.4	14.37	15.78	26.64	1109.2	94.21	
112	2.7456	1.3489	0.0039259	27.81	0.06282	440.5	14.39	15.85	26.88	1109.6	96.70	
113	2.8230	1.3870	0.0040178	28.57	0.06473	454.5	14.42	15.93	27.12	1110.1	99.20	
114	2.9004	1.4259	0.0041091	29.34	0.06665	469.0	14.45	16.00	27.36	1110.5	101.76	
115	2.9929	1.4700	0.0042007	30.13	0.06863	483.9	14.47	16.08	27.60	1111.0	104.40	
116	3.0764	1.5122	0.0042926	30.95	0.07061	499.4	14.50	16.16	27.84	1111.4	107.13	
117	3.1600	1.5556	0.0043847	31.76	0.07261	515.3	14.52	16.24	28.08	1111.9	109.92	
118	3.2576	1.6000	0.0044770	32.63	0.07460	532.0	14.55	16.32	28.32	1112.3	112.85	
119	3.3492	1.6455	0.0045694	33.49	0.07660	548.8	14.57	16.41	28.56	1112.8	115.80	
120	3.4449	1.6922	0.0046615	34.38	0.07863	566.5	14.60	16.50	28.80	1113.2	118.89	
121	3.5406	1.7398	0.0047538	35.29	0.08068	584.4	14.62	16.58	29.04	1113.7	122.01	
122	3.6404	1.7885	0.0048463	36.21	0.08274	603.1	14.65	16.68	29.28	1114.1	125.27	
123	3.7421	1.8381	0.0049389	37.15	0.08482	622.4	14.67	16.77	29.52	1114.6	128.63	
124	3.8460	1.8889	0.0050316	38.15	0.08691	642.3	14.70	16.87	29.76	1115.0	132.06	
125	3.9519	1.9411	0.0051244	39.13	0.08906	663.6	14.72	16.96	30.00	1115.5	135.59	
126	4.0618	1.9955	0.0052173	40.17	0.09120	685.3	14.75	17.06	30.24	1116.0	139.26	
127	4.1718	2.0499	0.0053103	41.18	0.09336	707.6	14.77	17.17	30.48	1116.4	143.00	
128	4.2858	2.1055	0.0054033	42.22	0.09552	730.6	14.80	17.27	30.72	1116.8	146.87	
129	4.4039	2.1633	0.0054963	43.32	0.09769	754.1	14.83	17.38	30.96	1117.3	150.86	
130	4.5220	2.2211	0.0055893	44.41	0.09983	778.9	14.85	17.49	31.20	1117.7	154.93	
131	4.6441	2.2811	0.0056823	45.53	0.10198	803.0	14.88	17.61	31.45	1118.2	159.26	
132	4.7703	2.3433	0.0057753	46.70	0.10413	828.1	14.90	17.73	31.69	1118.6	163.68	
133	4.8965	2.4065	0.0058683	47.87	0.10628	853.6	14.93	17.85	31.93	1119.1	168.24	
134	5.0289	2.4707	0.0059613	49.07	0.10843	879.9	14.95	17.97	32.17	1119.5	172.89	
135	5.1633	2.5366	0.0060543	50.30	0.11058	907.9	14.98	18.10	32.41	1120.0	177.67	
136	5.2997	2.6039	0.0061473	51.55	0.11273	937.3	15.00	18.23	32.65	1120.4	182.67	
137	5.4402	2.6722	0.0062403	52.83	0.11488	967.4	15.03	18.36	32.89	1120.9	187.80	
138	5.5827	2.7421	0.0063333	54.12	0.11703	998.6	15.05	18.50	33.13	1121.3	193.04	
139	5.7293	2.8141	0.0064263	55.46	0.11918	1031.1	15.08	18.65	33.37	1121.8	198.61	

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