

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	Vapor with Vapor to Saturate it	Dry Air with Vapor to Saturate it
			Pounds	Grains	Pounds	Grains						
70	0.73866	0.3928	0.0011507	8.315	0.01574	110.2	13.34	13.08	16.79	1090.7	33.96	34.83
71	0.76431	0.4033	0.0011584	8.359	0.01631	114.2	13.37	13.71	17.03	1091.6	34.83	35.70
72	0.79098	0.4148	0.0011661	8.403	0.01688	118.2	13.40	13.75	17.31	1092.5	35.70	36.57
73	0.81765	0.4263	0.0011738	8.448	0.01745	122.4	13.42	13.79	17.59	1093.4	36.57	37.44
74	0.84432	0.4378	0.0011815	8.492	0.01802	126.6	13.44	13.83	17.87	1094.3	37.44	38.31
75	0.87099	0.4493	0.0011892	8.536	0.01859	131.1	13.47	13.87	18.15	1095.2	38.31	39.18
76	0.89766	0.4608	0.0011969	8.580	0.01916	135.7	13.49	13.91	18.43	1096.1	39.18	40.05
77	0.92433	0.4723	0.0012046	8.624	0.01973	140.4	13.52	13.95	18.71	1097.0	40.05	40.92
78	0.95099	0.4838	0.0012123	8.668	0.02030	145.3	13.54	13.99	18.99	1097.9	40.92	41.79
79	0.97766	0.4953	0.0012200	8.712	0.02087	150.3	13.57	14.03	19.27	1098.8	41.79	42.66
80	1.00433	0.5068	0.0012277	8.756	0.02144	155.5	13.59	14.08	19.55	1099.7	42.66	43.53
81	1.03099	0.5183	0.0012354	8.800	0.02201	160.8	13.62	14.12	19.83	1100.6	43.53	44.40
82	1.05766	0.5298	0.0012431	8.844	0.02258	166.4	13.64	14.16	20.11	1101.5	44.40	45.27
83	1.08433	0.5413	0.0012508	8.888	0.02315	172.1	13.67	14.20	20.39	1102.4	45.27	46.14
84	1.11099	0.5528	0.0012585	8.932	0.02372	178.0	13.69	14.24	20.67	1103.3	46.14	47.01
85	1.13766	0.5643	0.0012662	8.976	0.02429	184.0	13.72	14.28	20.95	1104.2	47.01	47.88
86	1.16433	0.5758	0.0012739	9.020	0.02486	190.3	13.74	14.32	21.23	1105.1	47.88	48.75
87	1.19099	0.5873	0.0012816	9.064	0.02543	196.7	13.77	14.36	21.51	1106.0	48.75	49.62
88	1.21766	0.5988	0.0012893	9.108	0.02600	203.3	13.79	14.40	21.79	1106.9	49.62	50.49
89	1.24433	0.6103	0.0012970	9.152	0.02657	210.1	13.82	14.44	22.07	1107.8	50.49	51.36
90	1.27099	0.6218	0.0013047	9.196	0.02714	217.1	13.84	14.48	22.35	1108.7	51.36	52.23
91	1.29766	0.6333	0.0013124	9.240	0.02771	224.4	13.87	14.52	22.63	1109.6	52.23	53.10
92	1.32433	0.6448	0.0013201	9.284	0.02828	231.8	13.89	14.56	22.91	1110.5	53.10	53.97
93	1.35099	0.6563	0.0013278	9.328	0.02885	239.5	13.92	14.60	23.19	1111.4	53.97	54.84
94	1.37766	0.6678	0.0013355	9.372	0.02942	247.3	13.94	14.64	23.47	1112.3	54.84	55.71
95	1.40433	0.6793	0.0013432	9.416	0.03000	255.6	13.97	14.68	23.75	1113.2	55.71	56.58
96	1.43099	0.6908	0.0013509	9.460	0.03057	264.0	14.00	14.72	24.03	1114.1	56.58	57.45
97	1.45766	0.7023	0.0013586	9.504	0.03114	272.7	14.02	14.76	24.31	1115.0	57.45	58.32
98	1.48433	0.7138	0.0013663	9.548	0.03171	281.8	14.05	14.80	24.59	1115.9	58.32	59.19
99	1.51099	0.7253	0.0013740	9.592	0.03228	290.9	14.07	14.84	24.87	1116.8	59.19	60.06
100	1.53766	0.7368	0.0013817	9.636	0.03285	300.5	14.10	14.88	25.15	1117.7	60.06	60.93
101	1.56433	0.7483	0.0013894	9.680	0.03342	310.3	14.12	14.92	25.43	1118.6	60.93	61.80
102	1.59099	0.7598	0.0013971	9.724	0.03399	320.4	14.15	14.96	25.71	1119.5	61.80	62.67
103	1.61766	0.7713	0.0014048	9.768	0.03456	330.6	14.17	15.00	25.99	1120.4	62.67	63.54
104	1.64433	0.7828	0.0014125	9.812	0.03513	341.3	14.20	15.04	26.27	1121.3	63.54	64.41

^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)

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	Vapor with Vapor to Saturate it	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	15.27	25.20	1106.5	80.93	81.80
106	2.2776	1.1338	0.0033715	23.60	0.05200	364.0	14.25	15.44	25.48	1107.4	81.80	82.67
107	2.3138	1.1667	0.0034644	24.25	0.05363	375.8	14.27	15.50	25.76	1108.3	82.67	83.54
108	2.3500	1.1996	0.0035573	24.90	0.05526	387.9	14.30	15.57	26.04	1109.2	83.54	84.41
109	2.3862	1.2325	0.0036502	25.55	0.05689	400.3	14.32	15.64	26.32	1110.1	84.41	85.28
110	2.4224	1.2654	0.0037431	26.20	0.05852	413.3	14.35	15.71	26.60	1111.0	85.28	86.15
111	2.4586	1.2983	0.0038360	26.85	0.06015	426.4	14.37	15.78	26.88	1111.9	86.15	87.02
112	2.4948	1.3312	0.0039289	27.50	0.06178	439.4	14.39	15.85	27.16	1112.8	87.02	87.89
113	2.5310	1.3641	0.0040218	28.15	0.06341	452.4	14.42	15.92	27.44	1113.7	87.89	88.76
114	2.5672	1.3970	0.0041147	28.80	0.06504	465.0	14.45	16.00	27.72	1114.6	88.76	89.63
115	2.6034	1.4299	0.0042076	29.45	0.06667	478.0	14.47	16.08	28.00	1115.5	89.63	90.50
116	2.6396	1.4628	0.0043005	30.10	0.06830	491.0	14.50	16.16	28.28	1116.4	90.50	91.37
117	2.6758	1.4957	0.0043934	30.75	0.06993	504.0	14.52	16.24	28.56	1117.3	91.37	92.24
118	2.7120	1.5286	0.0044863	31.40	0.07156	517.0	14.55	16.32	28.84	1118.2	92.24	93.11
119	2.7482	1.5615	0.0045792	32.05	0.07319	530.0	14.57	16.40	29.12	1119.1	93.11	93.98
120	2.7844	1.5944	0.0046721	32.70	0.07482	543.0	14.60	16.48	29.40	1120.0	93.98	94.85
121	2.8206	1.6273	0.0047650	33.35	0.07645	556.0	14.62	16.56	29.68	1120.9	94.85	95.72
122	2.8568	1.6602	0.0048579	34.00	0.07808	569.0	14.65	16.64	29.96	1121.8	95.72	96.59
123	2.8930	1.6931	0.0049508	34.65	0.07971	582.0	14.67	16.72	30.24	1122.7	96.59	97.46
124	2.9292	1.7260	0.0050437	35.30	0.08134	595.0	14.70	16.80	30.52	1123.6	97.46	98.33
125	2.9654	1.7589	0.0051366	35.95	0.08297	608.0	14.73	16.88	30.80	1124.5	98.33	99.20
126	3.0016	1.7918	0.0052295	36.60	0.08460	621.0	14.75	16.96	31.08	1125.4	99.20	100.07
127	3.0378	1.8247	0.0053224	37.25	0.08623	634.0	14.78	17.04	31.36	1126.3	100.07	100.94
128	3.0740	1.8576	0.0054153	37.90	0.08786	647.0	14.81	17.12	31.64	1127.2	100.94	101.81
129	3.1102	1.8905	0.0055082	38.55	0.08949	660.0	14.84	17.20	31.92	1128.1	101.81	102.68
130	3.1464	1.9234	0.0056011	39.20	0.09112	673.0	14.87	17.28	32.20	1129.0	102.68	103.55
131	3.1826	1.9563	0.0056940	39.85	0.09275	686.0	14.90	17.36	32.48	1129.9	103.55	104.42
132	3.2188	1.9892	0.0057869	40.50	0.09438	699.0	14.93	17.44	32.76	1130.8	104.42	105.29
133	3.2550	2.0221	0.0058798	41.15	0.09601	712.0	14.96	17.52	33.04	1131.7	105.29	106.16
134	3.2912	2.0550	0.0059727	41.80	0.09764	725.0	14.99	17.60	33.32	1132.6	106.16	107.03
135	3.3274	2.0879	0.0060656	42.45	0.09927	738.0	15.02	17.68	33.60	1133.5	107.03	107.90
136	3.3636	2.1208	0.0061585	43.10	0.10090	751.0	15.05	17.76	33.88	1134.4	107.90	108.77
137	3.3998	2.1537	0.0062514	43.75	0.10253	764.0	15.08	17.84	34.16	1135.3	108.77	109.64
138	3.4360	2.1866	0.0063443	44.40	0.10416	777.0	15.11	17.92	34.44	1136.2	109.64	110.51
139	3.4722	2.2195	0.0064372	45.05	0.10579	790.0	15.14	18.00	34.72	1137.1	110.51	111.38

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