

TABLE 5. PROPERTIES OF SATURATED WATER VAPOR WITH AIR, 0 F TO 200 Fa (CONTINUED)

Temp., F	PRESSURE OF SATURATED VAPOR		WEIGHT OF SATURATED VAPOR				VOLUME IN Cu Ft BAROMETER, 29.92 In. Hg		HEAT CONTENT 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	5.8770	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	0.008113	59.10	0.1570	1096.0	15.15	18.94	33.85	1122.7	210.11	
142	6.1874	3.039	0.008110	61.41	0.1622	1107.5	15.20	19.10	34.09	1123.1	216.28	
143	6.3482	3.118	0.008107	63.74	0.1675	1119.0	15.25	19.26	34.33	1123.6	222.55	
144	6.5111	3.198	0.008103	66.08	0.1730	1131.0	15.30	19.43	34.57	1124.0	228.92	
145	6.6781	3.280	0.008148	68.44	0.1787	1143.5	15.35	19.60	34.81	1124.5	235.76	
146	6.8471	3.363	0.008366	70.81	0.1846	1156.5	15.40	19.78	35.05	1124.9	242.71	
147	7.0222	3.449	0.008660	73.19	0.1908	1170.0	15.45	19.96	35.29	1125.4	250.02	
148	7.1993	3.538	0.009017	75.58	0.1971	1184.0	15.50	20.15	35.53	1125.8	257.43	
149	7.3805	3.625	0.010040	77.98	0.2037	1198.5	15.55	20.35	35.77	1126.3	265.20	
150	7.5658	3.716	0.010284	80.39	0.2105	1213.5	15.60	20.55	36.02	1126.7	273.19	
151	7.7551	3.809	0.010526	82.81	0.2176	1229.0	15.65	20.76	36.26	1127.2	281.54	
152	7.9485	3.904	0.010772	85.24	0.2250	1245.0	15.70	20.97	36.50	1127.6	290.21	
153	8.1460	4.001	0.011022	87.68	0.2327	1261.5	15.75	21.20	36.74	1128.1	299.25	
154	8.3476	4.100	0.011279	90.13	0.2407	1278.5	15.80	21.43	36.98	1128.5	308.61	
155	8.5532	4.201	0.011539	92.59	0.2490	1296.0	15.85	21.67	37.22	1129.0	318.34	
156	8.7630	4.305	0.011807	95.06	0.2577	1314.0	15.90	21.93	37.46	1129.4	328.51	
157	8.9788	4.413	0.012077	97.54	0.2667	1332.5	15.95	22.19	37.70	1129.9	339.04	
158	9.1998	4.518	0.012354	100.03	0.2761	1351.5	16.00	22.46	37.94	1130.3	350.02	
159	9.4268	4.627	0.012634	102.53	0.2858	1371.0	16.05	22.74	38.18	1130.8	361.36	
160	9.6489	4.739	0.012919	105.04	0.2961	1391.0	16.10	23.03	38.43	1131.2	373.08	
161	9.8807	4.853	0.013211	107.56	0.3067	1411.5	16.15	23.33	38.67	1131.7	385.78	
162	10.1119	4.970	0.013509	110.09	0.3177	1432.5	16.20	23.63	38.91	1132.1	398.80	
163	10.361	5.089	0.013812	112.63	0.3295	1454.0	16.25	23.98	39.15	1132.5	412.34	
164	10.608	5.210	0.014120	115.18	0.3416	1476.0	16.30	24.33	39.39	1133.0	426.42	
165	10.860	5.334	0.014434	117.74	0.3544	1498.5	16.35	24.69	39.63	1133.5	441.34	
166	11.117	5.460	0.014753	120.31	0.3677	1521.5	16.40	25.07	39.87	1133.9	456.81	
167	11.379	5.589	0.015080	122.89	0.3817	1545.0	16.45	25.46	40.11	1134.4	473.11	
168	11.646	5.720	0.015410	125.48	0.3964	1569.0	16.50	25.88	40.35	1134.8	490.18	
169	11.919	5.854	0.015750	128.08	0.4118	1593.5	16.55	26.31	40.59	1135.3	508.11	
170	12.196	5.990	0.016092	130.69	0.4280	1618.5	16.60	26.77	40.83	1135.7	526.91	
171	12.478	6.127	0.016441	133.31	0.4451	1644.0	16.65	27.24	41.07	1136.2	546.78	
172	12.765	6.270	0.016804	135.94	0.4631	1670.0	16.70	27.74	41.32	1136.6	567.68	
173	13.055	6.417	0.017184	138.58	0.4821	1696.5	16.75	28.25	41.56	1137.1	589.76	
174	13.366	6.565	0.017584	141.23	0.5022	1723.5	16.80	28.84	41.80	1137.5	613.05	

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

TABLE 5. PROPERTIES OF SATURATED WATER VAPOR WITH AIR, 0 F TO 200 Fa (CONCLUDED)

Temp., F	PRESSURE OF SATURATED VAPOR		WEIGHT OF SATURATED VAPOR				VOLUME IN Cu Ft BAROMETER, 29.92 In. Hg		HEAT CONTENT 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	143.89	0.5235	1751.0	16.85	29.43	42.04	1138.0	637.78	
176	13.985	6.869	0.018294	146.49	0.5459	1777.5	16.90	30.00	42.28	1138.4	653.73	
177	14.303	7.025	0.018684	149.11	0.5697	1804.5	16.95	30.57	42.53	1138.9	670.35	
178	14.627	7.184	0.019080	151.74	0.5949	1832.0	17.00	31.14	42.78	1139.3	687.68	
179	14.954	7.345	0.019477	154.38	0.6215	1860.0	17.05	31.71	43.00	1139.8	705.39	
180	15.290	7.510	0.019888	157.03	0.6501	1888.5	17.10	32.28	43.24	1140.2	724.48	
181	15.632	7.678	0.020304	159.69	0.6805	1917.5	17.15	32.86	43.49	1140.7	743.99	
182	15.981	7.849	0.020729	162.36	0.7131	1947.0	17.20	33.44	43.73	1141.1	763.95	
183	16.337	8.024	0.021159	165.04	0.7481	1977.0	17.25	34.02	43.97	1141.6	784.48	
184	16.697	8.201	0.021598	167.73	0.7854	2007.5	17.30	34.60	44.21	1142.0	805.00	
185	17.066	8.382	0.022045	170.43	0.8258	2038.5	17.35	35.18	44.45	1142.5	825.93	
186	17.440	8.566	0.022497	173.14	0.8693	2070.0	17.40	35.76	44.69	1142.9	847.21	
187	17.821	8.753	0.022956	175.86	0.9162	2102.0	17.45	36.34	44.93	1143.4	868.88	
188	18.210	8.944	0.023424	178.59	0.9673	2134.5	17.50	36.92	45.18	1143.8	891.00	
189	18.605	9.138	0.023900	181.33	1.0227	2167.5	17.55	37.50	45.42	1144.3	913.14	
190	19.008	9.336	0.024384	184.08	1.0833	2201.0	17.60	38.08	45.66	1144.7	935.97	
191	19.419	9.538	0.024881	186.84	1.1484	2235.0	17.65	38.66	45.90	1145.2	959.28	
192	19.836	9.744	0.025393	189.61	1.2180	2269.5	17.70	39.24	46.14	1145.6	983.19	
193	20.260	9.954	0.025913	192.39	1.2921	2304.5	17.75	39.82	46.38	1146.1	1007.68	
194	20.702	10.168	0.026443	195.18	1.3707	2340.0	17.80	40.40	46.62	1146.5	1032.81	
195	21.144	10.385	0.026989	197.98	1.4549	2376.0	17.85	40.98	46.86	1147.0	1058.58	
196	21.592	10.605	0.027551	200.79	1.5449	2412.5	17.90	41.56	47.10	1147.4	1084.98	
197	22.048	10.829	0.028129	203.61	1.6409	2449.5	17.95	42.14	47.34	1147.9	1111.98	
198	22.512	11.057	0.028719	206.44	1.7439	2487.0	18.00	42.72	47.59	1148.3	1139.51	
199	22.984	11.289	0.029319	209.28	2.061	2525.0	18.05	43.30	47.83	1148.8	1167.68	
200	23.465	11.525	0.029920	212.13	2.261	2563.5	18.10	43.88	48.07	1149.2	1196.41	

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