

MEM CONDENSED SATURATED AND SUPERHEATED STEAM TABLES

Vacuum & Sat. Temp., °F.		SAT. VAPOR	140°	160°	180°	200°	220°	240°	260°	280°	300°	320°	340°	360°	380°	400°	420°	440°	460°	480°	500°	600°
25° Hg	v	150.760	155.05	158.289	163.491	168.680	173.875	179.043	184.211	189.317	194.481	199.641	204.801	209.961	215.062	220.218	225.373	230.475	235.626	240.786	245.879	271.524
132.52	h	1118.88	1122.32	1131.55	1140.69	1149.83	1158.97	1168.07	1177.22	1186.37	1195.52	1204.72	1213.86	1223.06	1232.26	1241.56	1250.82	1260.12	1269.46	1278.76	1288.16	1335.56
20° Hg	v	75.679		11.572	78.115	80.639	83.145	85.641	88.135	90.630	93.106	95.590	98.066	100.541	103.016	105.490	107.956	110.422	112.896	115.362	117.826	130.144
161.07	h	1130.62		142.66	1139.46	1148.85	1158.15	1167.34	1176.54	1185.74	1195.03	1204.23	1213.43	1222.71	1231.93	1241.21	1250.51	1259.81	1269.21	1278.61	1288.01	1335.41
15° Hg	v	51.563		36.154	53.376	55.067	56.738	58.408	60.076	61.727	63.384	65.035	66.686	68.327	69.974	71.618	73.266	74.903	76.544	78.185	86.375	
178.83	h	1137.69		763.17	1147.77	1157.27	1166.57	1175.90	1185.20	1194.43	1203.73	1213.03	1222.27	1231.57	1240.87	1250.23	1259.57	1268.97	1278.37	1287.77	1335.27	
10° Hg	v	39.274			39.786	41.056	42.324	43.581	44.829	46.079	47.317	48.555	49.795	51.031	52.261	53.491	54.727	55.957	57.185	58.413	64.536	
192.15	h	1142.89			1146.69	1156.29	1165.76	1175.16	1184.56	1193.94	1203.24	1212.54	1221.92	1231.24	1240.62	1249.92	1259.32	1268.72	1278.12	1287.52	1335.12	
5° Hg	v	31.836				32.713	33.736	34.747	35.750	36.751	37.751	38.744	39.735	40.726	41.716	42.700	43.683	44.671	45.654	46.635	51.536	
202.91	h	1146.96				1155.33	1164.93	1174.53	1183.95	1193.35	1202.75	1212.15	1221.55	1230.88	1240.28	1249.65	1258.98	1268.48	1277.88	1287.30	1334.98	
PSIG & Sat. Temp., °F.		SAT. VAPOR	140°	160°	180°	200°	220°	240°	260°	280°	300°	320°	340°	360°	380°	400°	420°	440°	460°	480°	500°	600°
0	v	26.8				27.15	28	28.85	29.7	30.53	31.37	32.2	33.03	33.85	34.68	35.5	36.32	37.14	37.96	38.78	42.86	
212	h	1150.4				1154.4	1164.2	1173.8	1183.3	1192.8	1202.3	1211.7	1221.1	1230.5	1239.9	1249.3	1258.8	1268.2	1277.6	1287.1	1334.8	
2	v	23.802				25.697	26.508	27.310	28.117	28.908	29.705	30.501	31.283	32.064	32.851	33.617	34.404	35.175	35.962	36.733	41.542	
214.65	h	1152.77				1153.52	1163.49	1173.19	1182.79	1186.14	1192.36	1201.86	1211.36	1220.76	1230.23	1239.66	1249.13	1258.53	1267.93	1277.43	1286.93	
PSIG & Sat. Temp., °F.		SAT. VAPOR	230°	240°	250°	260°	270°	280°	290°	300°	320°	340°	360°	380°	400°	420°	440°	460°	480°	500°	550°	600°
4	v	21.410	21.604	21.940	22.283	22.619	22.955	23.291	23.624	23.960	24.612	25.274	25.933	26.582	27.235	27.884	28.536	29.185	29.827	30.476	32.083	33.691
224.38	h	1154.97	1157.79	1162.79	1167.69	1172.59	1177.49	1182.29	1187.16	1191.96	1201.46	1210.96	1220.46	1229.93	1239.43	1248.83	1258.33	1267.73	1277.23	1286.73	1310.53	1334.53
6	v	19.464		19.784	20.090	20.399	20.705	21.008	21.311	21.614	22.213	22.805	23.401	24.580	25.169	25.758	26.344	26.926	27.512	28.973	30.425	
229.78	h	1156.93		1162.09	1167.09	1171.99	1176.89	1181.79	1186.66	1191.46	1201.06	1210.66	1220.16	1229.63	1239.13	1248.63	1258.13	1267.53	1277.03	1286.53	1310.43	1334.43
8	v	17.854		18.004	18.287	18.569	18.850	19.128	19.405	19.683	20.231	20.775	21.321	21.860	22.399	22.935	23.471	24.007	24.543	25.072	26.401	27.729
234.76	h	1158.73		1161.32	1166.39	1171.39	1176.36	1181.26	1186.16	1190.99	1200.66	1210.26	1219.83	1229.36	1238.86	1248.33	1257.83	1267.33	1276.83	1286.40	1310.23	1334.23
10	v	16.495		16.513	16.775	17.036	17.296	17.553	17.810	18.064	18.572	19.075	19.575	20.072	20.571	21.064	21.560	22.049	22.542	23.031	24.256	25.478
239.39	h	1160.36		1160.69	1165.72	1170.79	1175.79	1180.69	1185.66	1190.56	1200.26	1209.86	1219.46	1229.06	1238.56	1248.13	1257.63	1267.13	1276.63	1286.23	1310.13	1334.13
12	v	15.335			15.490	15.842	15.974	16.214	16.452	16.689	17.161	17.628	18.093	18.555	19.015	19.474	19.930	20.386	20.842	21.295	22.431	23.563
243.72	h	1161.79			1165.09	1170.19	1175.19	1180.19	1185.16	1190.06	1199.86	1209.56	1219.16	1228.76	1238.33	1247.86	1257.43	1266.93	1276.43	1286.03	1309.93	1334.00
14	v	14.333		14.383	14.611	14.837	15.062	15.285	15.506	15.946	16.383	16.816	17.248	17.676	18.104	18.531	18.956	19.380	19.802	20.854	21.906	
247.80	h	1163.19		1164.39	1169.49	1174.59	1179.66	1184.66	1189.59	1199.39	1209.16	1218.83	1228.46	1238.03	1247.63	1257.13	1266.73	1276.23	1285.83	1309.83	1333.90	
16	v	13.456			13.635	13.848	14.059	14.269	14.477	14.889	15.299	15.706	16.110	16.513	16.914	17.313	17.710	18.108	18.504	19.492	20.476	
251.65	h	1164.52			1168.89	1173.99	1179.09	1184.09	1189.09	1198.96	1208.76	1218.46	1228.16	1237.76	1247.36	1256.93	1266.53	1276.13	1285.63	1309.63	1333.73	
18	v	12.684			12.779	12.980	13.179	13.377	13.573	13.963	14.349	14.732	15.113	15.491	15.868	16.244	16.618	16.992	17.364	18.292	19.217	
255.30	h	1165.82			1168.22	1173.39	1178.49	1183.59	1188.66	1198.56	1208.36	1218.16	1227.83	1237.46	1247.13	1256.73	1266.33	1275.93	1285.43	1309.53	1333.63	
20	v	11.997			12.021	12.212	12.400	12.588	12.774	13.143	13.509	13.871	14.230	14.588	14.944	15.298	15.652	16.004	16.355	16.869	17.380	
258.76	h	1166.92			1167.59	1172.79	1177.99	1183.09	1188.16	1198.16	1208.06	1217.83	1227.53	1237.23	1246.83	1256.46	1266.13	1275.73	1285.33	1299.29	1313.29	
PSIG & Sat. Temp., °F.		SAT. VAPOR	270°	280°	290°	300°	320°	340°	360°	380°	400°	420°	440°	460°	480°	500°	520°	540°	560°	580°	600°	
22	v	11.383	11.527	11.707	11.885	12.062	12.413	12.759	13.102	13.444	13.783	14.120	14.456	14.791	15.124	15.457	15.789	16.120	16.451	16.782	17.112	
262.08	h	1168.02	1172.19	1177.39	1182.56	1187.66	1197.69	1207.66	1217.46	1227.23	1236.93	1246.63	1256.23	1265.86	1275.53	1285.13	1294.73	1304.33	1314.03	1323.63	1333.33	
24	v	10.830	10.913	11.084	11.255	11.424	11.757	12.088	12.414	12.738	13.061	13.381	13.701	14.018	14.336	14.652	14.966	15.281	15.595	15.909	16.222	
265.25	h	1169.05	1171.59	1176.79	1181.99	1187.16	1197.26	1207.26	1217.16	1226.93	1236.63	1246.33	1256.03	1265.63	1275.33	1284.93	1294.53	1304.23	1313.83	1323.53	1333.23	
26	v	10.331	10.359	10.524	10.686	10.848	11.167	11.481	11.793	12.102	12.410	12.716	13.019	13.322	13.624	13.925	14.225	14.524	14.823	15.122	15.420	
268.29	h	1170.05	1170.99	1176.29	1181.49	1186.66	1196.86	1206.86	1216.76	1226.63	1236.36	1246.13	1255.83	1265.43	1275.13	1284.73	1294.43	1304.03	1313.73	1323.40	1333.10	
28	v	9.876		10.015	10.171	10.325	10.631	10.932	11.231	11.526	11.820	12.112	12.402	12.691	12.979	13.267	13.553	13.839	14.124	14.409	14.693	
271.21	h	1170.98		1175.69	1180.96	1186.16	1196.39	1206.46	1216.46	1226.33	1236.13	1245.83	1255.53	1265.23	1274.93	1284.53	1294.23	1303.90	1313.53	1323.23	1332.93	
30	v	9.462		9.552	9.701	9.850	10.143	10.432	10.718	11.002	11.282	11.562	11.840	12.117	12.393	12.667	12.941	13.214	13.487	13.760	14.032	
274.02	h	1171.88		1175.09	1180.39	1185.66	1195.96	1206.06	1216.06	1225.83	1235.63	1245.43	1255.33	1265.03	1274.73	1284.40	1294.03	1303.73	1313.43	1323.13	1332.83	
32	v	9.081		9.128	9.273	9.416	9.697	9.975	10.249	10.521	10.792											

36	v	8.406		8.515	8.649	8.910	9.169	9.423	9.675	9.926	10.173	10.420	10.665	10.909	11.153	11.395	11.637	11.878	12.119	12.359
281.88	h	1174.31		1178.69	1184.09	1194.66	1204.93	1215.06	1225.06	1234.96	1244.83	1254.63	1264.43	1274.13	1283.83	1293.53	1303.23	1312.93	1322.70	1332.43

PSIG & Sat. Temp., °F.		SAT. VAPOR	290°	300°	320°	340°	360°	380°	400°	420°	440°	460°	480°	500°	520°	540°	560°	580°	600°
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38	v	8.106	8.180	8.309	8.562	8.811	9.058	9.301	9.541	9.781	10.019	10.255	10.491	10.725	10.958	11.191	11.424	11.655	11.886
284.33	h	1175.08	1178.19	1183.59	1194.16	1204.56	1214.66	1224.73	1234.66	1244.53	1254.36	1264.13	1273.93	1283.63	1293.33	1303.10	1312.83	1322.53	1332.30

40	v	7.828	7.869	7.993	8.239	8.480	8.718	8.953	9.186	9.417	9.647	9.905	10.101	10.327	10.553	10.778	11.002	11.225	11.448
286.72	h	1175.81	1177.59	1183.06	1193.69	1204.09	1214.33	1224.43	1234.36	1244.33	1254.13	1263.93	1273.73	1283.43	1293.23	1302.93	1312.63	1322.43	1332.13

42	v	7.567	7.580	7.701	7.939	8.172	8.402	8.630	8.855	9.079	9.301	9.521	9.740	9.959	10.176	10.393	10.610	10.826	11.041
289.02	h	1176.51	1176.99	1182.56	1193.26	1203.66	1213.96	1224.06	1234.13	1244.03	1253.93	1263.73	1273.53	1283.23	1293.03	1302.73	1312.53	1322.23	1332.03

44	v	7.325		7.427	7.659	7.885	8.108	8.329	8.547	8.763	8.978	9.191	9.404	9.615	9.826	10.036	10.245	10.454	10.662
291.27	h	1177.18		1181.99	1192.76	1203.26	1213.56	1223.76	1233.83	1243.76	1253.66	1263.53	1273.33	1283.10	1292.83	1302.63	1312.33	1322.13	1331.90

46	v	7.098		7.173	7.397	7.617	7.834	8.048	8.259	8.469	8.677	8.883	9.089	9.294	9.497	9.701	9.903	10.105	10.307
293.46	h	1177.81		1181.46	1192.29	1202.86	1213.26	1223.46	1233.53	1243.53	1253.43	1263.33	1273.13	1282.93	1292.70	1302.43	1312.23	1322.00	1331.73

48	v	6.885		6.934	7.152	7.366	7.577	7.785	7.990	8.192	8.395	8.595	8.795	8.993	9.191	9.388	9.584	9.780	9.975
295.58	h	1178.41		1180.89	1191.86	1202.46	1212.86	1223.13	1233.23	1243.23	1253.23	1263.03	1272.93	1282.73	1292.53	1302.30	1312.03	1321.83	1331.63

50	v	6.684		6.709	6.923	7.131	7.336	7.537	7.737	7.934	8.130	8.325	8.519	8.712	8.903	9.094	9.284	9.474	9.664
297.66	h	1179.01		1180.36	1191.36	1202.06	1212.53	1222.76	1232.93	1242.96	1252.93	1262.83	1272.73	1282.53	1292.33	1302.13	1311.93	1321.73	1331.50

52	v	6.496		6.499	6.707	6.910	7.109	7.305	7.499	7.691	7.882	8.071	8.259	8.446	8.632	8.818	9.003	9.187	9.371
299.69	h	1179.61		1179.79	1190.89	1201.66	1212.16	1222.46	1232.63	1242.73	1252.73	1262.63	1272.53	1282.33	1292.13	1301.93	1311.73	1321.53	1331.33

54	v	6.317		6.503	6.701	6.896	7.086	7.275	7.462	7.648	7.831	8.014	8.197	8.378	8.557	8.737	8.917	9.096
301.66	h	1180.21		1190.39	1201.26	1211.76	1222.13	1232.33	1242.43	1252.43	1262.43	1272.33	1282.13	1291.93	1301.83	1311.63	1321.43	1331.23

PSIG & Sat. Temp., °F.		SAT. VAPOR	310°	320°	330°	340°	350°	360°	370°	380°	390°	400°	420°	440°	460°	480°	500°	520°	540°	560°	580°	600°
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56	v	6.149	6.212	6.311	6.408	6.504	6.599	6.694	6.787	6.880	6.973	7.064	7.246	7.427	7.606	7.784	7.961	8.137	8.312	8.487	8.662	8.835
303.59	h	1180.74	1184.36	1189.96	1195.39	1200.79	1206.16	1211.43	1216.63	1221.83	1226.93	1232.03	1242.16	1252.23	1262.13	1272.13	1281.93	1291.83	1301.63	1311.43	1321.23	1331.10

58	v	5.990	6.033	6.130	6.224	6.319	6.411	6.503	6.594	6.685	6.775	6.865	7.042	7.218	7.393	7.566	7.738	7.910	8.081	8.251	8.421	8.590
305.48	h	1181.24	1183.86	1189.46	1194.96	1200.36	1205.76	1211.06	1216.26	1221.46	1226.63	1231.76	1241.93	1251.93	1261.93	1271.83	1281.73	1291.63	1301.43	1311.33	1321.13	1330.93

60	v	5.838	5.863	5.957	6.051	6.142	6.233	6.323	6.412	6.500	6.589	6.676	6.849	7.020	7.191	7.360	7.527	7.695	7.861	8.027	8.193	8.357
307.32	h	1181.81	1183.29	1188.96	1194.49	1199.96	1205.36	1210.66	1215.93	1221.16	1226.33	1231.46	1241.63	1251.73	1261.73	1271.63	1281.53	1291.43	1301.33	1311.13	1321.00	1330.83

62	v	5.694	5.703	5.794	5.886	5.976	6.064	6.152	6.239	6.326	6.411	6.497	6.665	6.833	6.999	7.164	7.328	7.490	7.653	7.815	7.976	8.137
309.13	h	1182.31	1182.79	1188.46	1194.06	1199.56	1204.96	1210.26	1215.56	1220.83	1225.96	1231.16	1241.36	1251.46	1261.53	1271.43	1281.40	1291.23	1301.13	1311.00	1320.83	1330.70

64	v	5.557		5.640	5.729	5.817	5.904	5.990	6.075	6.160	6.243	6.326	6.492	6.655	6.817	6.979	7.138	7.297	7.456	7.614	7.771	7.927
310.90	h	1182.74		1187.96	1193.56	1199.06	1204.56	1209.86	1215.23	1220.46	1225.66	1230.86	1241.13	1251.23	1261.23	1271.23	1281.23	1291.13	1301.00	1310.83	1320.70	1330.53

66	v	5.427		5.493	5.580	5.666	5.751	5.835	5.919	6.001	6.084	6.165	6.327	6.486	6.645	6.802	6.958	7.113	7.268	7.422	7.576	7.729
312.63	h	1183.24		1187.46	1193.09	1198.66	1204.16	1209.56	1214.86	1220.16	1225.36	1230.56	1240.83	1250.96	1261.03	1271.03	1281.03	1290.93	1300.83	1310.70	1320.53	1330.43

68	v	5.303		5.353	5.438	5.523	5.607	5.689	5.770	5.851	5.932	6.011	6.169	6.326	6.481	6.634	6.786	6.939	7.090	7.240	7.390	7.539
314.33	h	1183.71		1186.96	1192.66	1198.26	1203.76	1209.16	1214.46	1219.76	1225.06	1230.23	1240.53	1250.73	1260.83	1270.83	1280.83	1290.73	1300.63	1310.53	1320.43	1330.30

70	v	5.186		5.220	5.303	5.386	5.468	5.549	5.629	5.708	5.787	5.865	6.019	6.173	6.324	6.474	6.623	6.772	6.919	7.067	7.213	7.359
316.00	h	1184.14		1186.46	1192.16	1197.76	1203.29	1208.76	1214.16	1219.46	1224.73	1229.93	1240.26	1250.46	1260.63	1270.63	1280.63	1290.53	1300.50	1310.40	1320.23	1330.13

72	v	5.072		5.092	5.174	5.255	5.336	5.415	5.494	5.571	5.649	5.725	5.876	6.026	6.174	6.322	6.467	6.613	6.757	6.901	7.044	7.187
317.06	h	1184.54		1185.96	1191.69	1197.36	1202.86	1208.36	1213.76	1219.13	1224.36	1229.63	1240.03	1250.23	1260.33	1270.43	1280.43	1290.40	1300.33	1310.23	1320.13	1330.03

PSIG & Sat. Temp., °F.		SAT. VAPOR	320°	330°	340°	350°	360°	370°	380°	390°	400°	420°	440°	460°	480°	500°	520°	540°	560°	580°	600°
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74	v	4.964	4.970	5.051	5.131	5.210	5.288	5.365	5.441	5.517	5.592	5.740	5.887	6.032	6.176	6.319	6.461	6.602	6.743	6.883	7.023
319.24	h	1185.01	1185.46	1191.19	1196.89	1202.46	1207.96	1213.43	1218.76	1224.06	1229.33	1239.73	1249.96	1260.13	1270.23	1280.23	1290.23	1300.13	1310.03	1320.00	1329.90

76	v	4.860		4.934	5.013	5.090	5.166	5.241	5.316	5.391	5.464	5.609	5.753	5.895	6.037	6.176	6.316	6.454	6.592	6.729	6.866
320.82	h	1185.44		1190.76	1196.46	1202.06	1207.56	1213.06	1218.46	1223.76	1229.03	1239.43	1249.73	1259.93	1270.03	1280.03	1290.03	1300.00	1309.93	1319.83	1329.73

78	v	4.762		4.8
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86	v	4.403		4.416	4.488	4.559	4.630	4.698	4.767	4.835	4.902	5.035	5.165	5.295	5.424	5.550	5.677	5.802	5.927	6.051	6.175
328.31	h	1187.30		1188.33	1194.16	1199.96	1205.56	1211.16	1216.66	1222.10	1227.50	1238.03	1248.50	1258.73	1268.93	1279.03	1289.13	1299.17	1309.13	1319.13	1329.07
88	v	4.322		2.837	4.395	4.465	4.535	4.602	4.670	4.737	4.803	4.933	5.062	5.189	5.315	5.439	5.564	5.687	5.809	5.931	6.053
329.74	h	1187.64		773.98	1193.73	1199.53	1205.16	1210.80	1216.30	1221.80	1227.16	1237.80	1248.20	1258.53	1268.73	1278.83	1288.93	1299.03	1308.97	1318.97	1328.93
90	v	4.244		4.306	4.375	4.443	4.510	4.576	4.642	4.707	4.836	4.962	5.086	5.210	5.333	5.455	5.576	5.696	5.816	5.935	
327.66	h	1188.00		1193.26	1199.06	1204.76	1210.46	1215.96	1221.46	1226.80	1237.50	1247.93	1258.30	1268.53	1278.67	1288.77	1298.83	1308.83	1318.83	1328.77	
92	v	4.168		4.220	4.288	4.355	4.421	4.486	4.551	4.615	4.741	4.866	4.989	5.110	5.231	5.350	5.469	5.587	5.705	5.822	
326.01	h	1188.34		1192.83	1198.66	1204.36	1210.06	1215.60	1221.10	1226.50	1237.20	1247.70	1258.03	1268.33	1278.53	1288.63	1298.63	1308.67	1318.67	1328.67	
94	v	4.095		4.137	4.204	4.270	4.336	4.400	4.463	4.527	4.650	4.773	4.894	5.013	5.132	5.250	5.366	5.482	5.598	5.713	
333.89	h	1188.70		1192.33	1198.23	1203.96	1209.66	1215.26	1220.76	1226.20	1236.90	1247.43	1257.83	1268.13	1278.33	1288.43	1298.47	1308.53	1318.53	1328.53	

PSIG & Sat. Temp., °F.		SAT. VAPOR	340°	350°	360°	370°	380°	390°	400°	420°	440°	460°	480°	500°	520°	540°	560°	580°	600°	
96	v	4.025	4.058	4.123	4.188	4.253	4.316	4.379	4.441	4.563	4.684	4.803	4.920	5.037	5.153	5.267	5.381	5.495	5.608	
335.24	h	1189.00	1191.83	1197.76	1203.56	1209.26	1214.90	1220.40	1225.90	1236.60	1247.20	1257.60	1267.90	1278.13	1288.23	1298.33	1308.37	1318.37	1328.37	
98	v	3.958	3.981	4.046	4.110	4.173	4.235	4.297	4.359	4.479	4.598	4.715	4.830	4.945	5.059	5.172	5.284	5.395	5.506	
336.57	h	1189.30	1191.36	1197.33	1203.16	1208.86	1214.56	1220.10	1225.60	1236.33	1246.93	1257.33	1267.63	1277.93	1288.03	1298.13	1308.23	1318.23	1328.27	
100	v	3.892	3.906	3.971	4.034	4.096	4.158	4.219	4.279	4.397	4.515	4.630	4.743	4.857	4.968	5.080	5.190	5.300	5.409	
337.87	h	1189.60	1190.93	1196.86	1202.76	1208.46	1214.16	1219.76	1225.26	1236.10	1246.70	1257.13	1267.43	1277.73	1287.83	1297.97	1308.03	1318.07	1328.13	
105	v	3.737		3.793	3.855	3.915	3.975	4.034	4.092	4.206	4.319	4.430	4.539	4.648	4.756	4.862	4.968	5.074	5.179	
341.06	h	1190.35		1195.78	1201.68	1207.56	1213.26	1218.86	1224.45	1235.35	1246.03	1256.53	1266.93	1277.23	1287.43	1297.53	1307.63	1317.72	1327.73	
110	v	3.595		3.630	3.690	3.749	3.806	3.863	3.919	4.030	4.139	4.246	4.352	4.456	4.560	4.663	4.765	4.866	4.968	
344.15	h	1191.00		1194.63	1200.66	1206.56	1212.36	1218.00	1223.60	1234.60	1245.33	1255.93	1266.33	1276.73	1286.93	1297.13	1307.27	1317.37	1327.43	
115	v	3.463		3.480	3.538	3.594	3.650	3.705	3.760	3.868	3.973	4.076	4.178	4.279	4.380	4.479	4.577	4.674	4.772	
347.14	h	1191.67		1193.48	1199.56	1205.56	1211.36	1217.15	1222.76	1233.85	1244.65	1255.33	1265.83	1276.23	1286.52	1296.72	1306.83	1317.02	1327.03	
120	v	3.341		3.397	3.452	3.506	3.559	3.613	3.671	3.718	3.818	3.919	4.018	4.115	4.212	4.308	4.403	4.497	4.592	
350.04	h	1192.30		1198.53	1204.56	1210.46	1216.26	1221.96	1227.30	1233.10	1244.00	1254.73	1265.30	1275.73	1286.03	1296.27	1306.47	1316.63	1326.73	

125	v	3.227		3.266	3.320	3.373	3.425	3.476	3.577	3.675	3.773	3.869	3.963	4.056	4.149	4.242	4.333	4.423	
352.85	h	1192.95		1197.38	1203.56	1209.46	1215.36	1221.15	1232.35	1243.35	1254.13	1264.73	1275.23	1285.53	1295.83	1306.03	1316.23	1326.42	

PSIG & Sat. Temp., °F.		SAT. VAPOR	360°	370°	380°	390°	400°	420°	440°	460°	480°	500°	520°	540°	560°	580°	600°	
130	v	3.120	3.144	3.196	3.248	3.299	3.349	3.447	3.543	3.637	3.730	3.821	3.912	4.002	4.091	4.179	4.267	
355.59	h	1193.47	1196.33	1202.46	1208.56	1214.46	1220.26	1231.60	1242.70	1253.50	1264.13	1274.70	1285.13	1295.43	1305.67	1315.87	1326.03	
135	v	3.021	3.030	3.081	3.131	3.181	3.230	3.325	3.418	3.510	3.600	3.689	3.777	3.864	3.950	4.036	4.122	
358.26	h	1194.07	1195.18	1201.46	1207.56	1213.56	1219.45	1230.85	1242.03	1252.93	1263.63	1274.13	1284.63	1295.02	1305.23	1315.52	1325.72	
140	v	2.927		2.973	3.022	3.070	3.118	3.212	3.302	3.391	3.479	3.565	3.651	3.736	3.819	3.902	3.985	
360.85	h	1194.57		1200.36	1206.56	1212.66	1218.56	1230.10	1241.30	1252.30	1263.03	1273.63	1284.13	1294.53	1304.87	1315.13	1325.33	
145	v	2.839		2.872	2.920	2.967	3.014	3.104	3.193	3.280	3.366	3.450	3.532	3.614	3.696	3.776	3.857	
363.38	h	1195.07		1199.28	1205.56	1211.66	1217.66	1229.35	1240.65	1251.65	1262.45	1273.13	1283.72	1294.13	1304.43	1314.73	1325.02	
150	v	2.757		2.777	2.824	2.870	2.916	3.004	3.091	3.176	3.259	3.340	3.421	3.501	3.580	3.659	3.737	
365.85	h	1195.57		1198.23	1204.56	1210.76	1216.80	1228.50	1239.90	1251.03	1261.93	1272.63	1283.23	1293.67	1304.03	1314.37	1324.63	
155	v	2.680		2.687	2.733	2.778	2.823	2.910	2.995	3.077	3.158	3.238	3.316	3.394	3.472	3.548	3.624	
368.26	h	1195.97		1197.16	1203.56	1209.76	1215.86	1227.75	1239.25	1250.43	1261.33	1272.13	1282.73	1293.23	1303.63	1314.02	1324.23	
160	v	2.606		2.648	2.692	2.736	2.821	2.904	2.984	3.063	3.141	3.218	3.294	3.369	3.444	3.517		
370.61	h	1196.43		1202.56	1208.86	1215.00	1227.00	1238.50	1249.80	1260.73	1271.53	1282.23	1292.83	1303.23	1313.63	1323.93		
165	v	2.536		2.568	2.611	2.654	2.737	2.818	2.896	2.974	3.049	3.125	3.199	3.272	3.345	3.417		
372.13	h	1196.87		1201.46	1207.86	1214.06	1226.15	1237.85	1249.13	1260.23	1271.03	1281.73	1292.33	1302.83	1313.23	1323.53		

PSIG & Sat. Temp., °F.		SAT. VAPOR	380°	390°	400°	420°	440°	460°	480°	500°	520°	540°	560°	580°	600°	
170	v	2.470	2.491	2.534	2.576	2.657	2.737	2.814	2.889	2.963	3.037	3.109	3.180	3.251	3.321	
375.17	h	1197.23	1200.46	1206.86	1213.16	1225.40	1237.10	1248.50	1259.63	1270.53	1281.33	1291.93	1302.43	1312.83	1323.23	
175	v	2.408	2.418	2.460	2.502	2.582	2.660	2.735	2.809	2.882	2.953	3.024	3.094	3.162	3.231	
377.38	h	1197.58	1199.36	1205.86	1212.26	1224.55	1236.35	1247.85	1259.03	1270.03	1280.83	1291.43	1302.02	1312.43	1322.83	

180	v	2.348	2.355	2.392	2.432	2.510	2.586	2.661	2.733	2.804	2.874	2.943	3.011	3.079	3.145
379.54	h	1197.97	1198.25	1204.86	1211.36	1223.70	1235.70	1247.20	1258.43	1269.43	1280.33	1291.03	1301.57	1312.07	1322.47
185	v	2.291		2.325	2.365	2.442	2.517	2.589	2.660	2.730	2.799	2.867	2.933	2.999	3.065
381.66	h	1198.37		1203.86	1210.36	1222.95	1234.95	1246.55	1257.85	1268.93	1279.83	1290.53	1301.13	1311.72	1322.13
190	v	2.238		2.263	2.302	2.377	2.451	2.522	2.592	2.660	2.727	2.793	2.858	2.923	2.987
383.74	h	1198.63		1202.86	1209.46	1222.10	1234.20	1245.90	1257.23	1268.43	1279.33	1290.13	1300.73	1311.27	1321.77
195	v	2.186		2.203	2.241	2.316	2.388	2.458	2.526	2.593	2.659	2.724	2.787	2.851	2.913
385.78	h	1198.98		1201.86	1208.46	1221.25	1233.45	1245.23	1256.65	1267.83	1278.83	1289.63	1300.33	1310.92	1321.42

PSIG & Sat. Temp., °F.	SAT. VAPOR	390°	400°	420°	440°	460°	480°	500°	520°	540°	560°	580°	600°	
200	v	2.137	2.145	2.183	2.257	2.328	2.397	2.464	2.529	2.594	2.657	2.720	2.782	2.843
387.78	h	1199.27	1200.76	1207.46	1220.40	1232.70	1244.53	1256.03	1267.33	1278.33	1289.23	1299.93	1310.53	1321.07
205	v	2.090	2.090	2.128	2.201	2.270	2.338	2.404	2.469	2.532	2.594	2.656	2.716	2.776
389.74	h	1199.58	1199.76	1206.56	1219.55	1231.95	1243.85	1255.45	1266.73	1277.83	1288.73	1299.52	1310.13	1320.72
210	v	2.045		2.076	2.147	2.216	2.282	2.347	2.410	2.472	2.534	2.594	2.653	2.712
391.67	h	1199.83		1205.56	1218.70	1231.20	1243.20	1254.83	1266.23	1277.33	1288.27	1299.07	1309.73	1320.33
215	v	2.002		2.025	2.096	2.163	2.229	2.292	2.354	2.415	2.475	2.534	2.593	2.651
393.57	h	1200.08		1204.56	1217.85	1230.45	1242.55	1254.25	1265.65	1276.83	1287.83	1298.63	1309.33	1319.93
220	v	1.960		1.977	2.046	2.113	2.178	2.240	2.302	2.362	2.420	2.478	2.535	2.592
395.43	h	1200.33		1203.56	1216.96	1229.70	1241.83	1253.63	1265.13	1276.33	1287.33	1298.23	1308.97	1319.57
225	v	1.921		1.930	1.999	2.065	2.129	2.190	2.250	2.309	2.367	2.424	2.480	2.536
397.26	h	1200.58		1202.56	1216.06	1228.85	1241.15	1253.03	1264.53	1275.83	1286.93	1297.82	1308.53	1319.22
230	v	1.883		1.886	1.954	2.019	2.081	2.142	2.201	2.259	2.316	2.372	2.428	2.482
399.07	h	1200.83		1201.46	1215.16	1228.10	1240.50	1252.40	1264.00	1275.33	1286.43	1297.37	1308.17	1318.87
235	v	1.846			1.910	1.974	2.036	2.096	2.154	2.211	2.267	2.322	2.377	2.430
400.84	h	1201.08			1214.26	1227.35	1239.75	1251.75	1263.43	1274.83	1285.93	1296.93	1307.73	1318.52

PSIG & Sat. Temp., °F.	SAT. VAPOR	420°	440°	460°	480°	500°	520°	540°	560°	580°	600°	
240	v	1.811	1.868	1.932	1.993	2.052	2.109	2.165	2.220	2.275	2.328	2.381
402.59	h	1201.29	1213.35	1226.55	1239.04	1251.14	1262.84	1274.33	1285.52	1296.52	1307.32	1318.12
245	v	1.777	1.828	1.891	1.951	2.065	2.066	2.121	2.175	2.229	2.281	2.333
404.32	h	1201.49	1212.45	1225.75	1238.25	1250.54	1262.33	1273.83	1285.03	1296.03	1306.92	1317.72
250	v	1.744	1.789	1.851	1.911	1.971	2.024	2.079	2.132	2.184	2.236	2.287
406.01	h	1201.69	1211.55	1224.95	1237.64	1249.94	1261.74	1273.24	1284.53	1295.62	1306.52	1317.32
260	v	1.682	1.716	1.776	1.834	1.890	1.944	1.997	2.049	2.100	2.151	2.200
409.33	h	1202.09	1209.66	1223.35	1236.24	1248.64	1260.54	1272.23	1283.62	1294.73	1305.72	1316.62
270	v	1.625	1.647	1.707	1.763	1.818	1.871	1.922	1.973	2.022	2.070	2.118
412.55	h	1202.39	1207.76	1221.65	1234.74	1247.34	1259.44	1271.14	1282.63	1293.92	1304.92	1315.82
280	v	1.571	1.584	1.642	1.697	1.751	1.802	1.852	1.901	1.949	1.997	2.043
415.70	h	1202.69	1205.86	1219.95	1233.34	1246.04	1258.24	1270.13	1281.63	1293.02	1304.12	1315.12
290	v	1.520	1.524	1.581	1.635	1.687	1.738	1.787	1.835	1.881	1.927	1.973
418.76	h	1202.99	1203.86	1218.25	1231.84	1244.74	1257.04	1269.03	1280.72	1292.12	1303.32	1314.32
300	v	1.473		1.524	1.577	1.628	1.678	1.726	1.772	1.818	1.863	1.907
421.74	h	1203.19		1216.55	1230.34	1243.34	1255.84	1267.94	1279.73	1291.22	1302.52	1313.62
310	v	1.428		1.470	1.523	1.573	1.621	1.668	1.714	1.758	1.802	1.845
424.65	h	1203.49		1214.85	1228.75	1241.94	1254.64	1266.84	1278.73	1290.32	1301.62	1312.82
320	v	1.386		1.420	1.471	1.521	1.568	1.614	1.658	1.702	1.745	1.786
427.49	h	1203.60		1213.05	1227.25	1240.64	1253.44	1265.74	1277.73	1289.42	1300.82	1312.02

PSIG & Sat. Temp., °F.	SAT. VAPOR	440°	450°	460°	470°	480°	490°	500°	520°	540°	560°	580°	600°	
330	v	1.346	1.372	1.398	1.423	1.447	1.471	1.495	1.518	1.563	1.606	1.649	1.691	1.731
430.27	h	1203.79	1211.25	1218.55	1225.65	1232.54	1239.24	1245.84	1252.14	1264.64	1276.73	1288.43	1299.93	1311.22
340	v	1.309	1.327	1.352	1.377	1.401	1.425	1.448	1.470	1.514	1.557	1.599	1.640	1.680
432.98	h	1203.99	1209.36	1216.85	1224.05	1231.04	1237.84	1244.44	1250.94	1263.54	1275.73	1287.53	1299.12	1310.52

350	v	1.273	1.284	1.309	1.334	1.358	1.381	1.403	1.426	1.469	1.511	1.552	1.591	1.631
435.64	h	1204.10	1207.55	1215.15	1222.45	1229.54	1236.44	1243.14	1249.64	1262.44	1274.73	1286.63	1298.23	1309.72
360	v	1.239	1.244	1.269	1.293	1.316	1.339	1.361	1.383	1.426	1.467	1.507	1.546	1.584
438.24	h	1204.29	1205.65	1213.35	1220.75	1227.95	1234.95	1241.84	1248.44	1261.24	1273.63	1285.63	1297.42	1308.92
370	v	1.207		1.230	1.254	1.277	1.299	1.321	1.343	1.385	1.425	1.483	1.503	1.540
440.78	h	1204.30		1211.55	1219.15	1226.45	1233.54	1240.44	1247.14	1260.14	1272.63	1284.73	1296.53	1308.12
380	v	1.177		1.193	1.217	1.240	1.262	1.284	1.305	1.346	1.385	1.424	1.462	1.498
443.28	h	1204.40		1209.75	1217.45	1224.85	1232.05	1239.04	1245.84	1258.94	1271.54	1283.82	1295.72	1307.32
390	v	1.148		1.158	1.181	1.204	1.226	1.247	1.268	1.309	1.348	1.386	1.423	1.459
445.74	h	1204.50		1207.95	1215.75	1223.25	1230.55	1237.64	1244.54	1257.83	1270.53	1282.83	1294.82	1306.52
400	v	1.120		1.125	1.148	1.170	1.192	1.213	1.234	1.273	1.312	1.349	1.385	1.421
448.14	h	1204.59		1206.05	1214.05	1221.65	1229.05	1236.24	1243.24	1256.64	1269.44	1281.83	1293.92	1305.72
410	v	1.094		1.116	1.138	1.159	1.180	1.200	1.240	1.278	1.314	1.350	1.385	
450.50	h	1204.60		1212.25	1220.05	1227.55	1234.84	1241.84	1255.44	1268.34	1280.93	1293.03	1304.92	

PSIG & Sat. Temp., °F.	SAT. VAPOR	460°	470°	480°	490°	500°	520°	540°	560°	580°	600°	
420	v	1.069	1.085	1.107	1.128	1.149	1.169	1.208	1.245	1.281	1.316	1.350
452.81	h	1204.60	1210.45	1218.35	1225.95	1233.34	1240.54	1254.24	1267.33	1279.93	1292.13	1304.02
430	v	1.044	1.055	1.077	1.098	1.119	1.139	1.177	1.214	1.249	1.284	1.317
455.08	h	1204.60	1208.65	1216.75	1224.45	1231.85	1239.14	1253.04	1266.23	1278.93	1291.23	1303.22
440	v	1.021	1.027	1.049	1.070	1.090	1.110	1.148	1.184	1.219	1.253	1.286
457.32	h	1204.60	1206.85	1215.05	1222.85	1230.44	1237.74	1251.74	1265.13	1277.93	1290.33	1302.42
450	v	0.999	1.000	1.022	1.042	1.063	1.082	1.119	1.155	1.190	1.223	1.256
459.52	h	1204.60	1204.95	1213.25	1221.25	1228.94	1236.34	1250.54	1264.03	1276.93	1289.43	1301.62
460	v	0.978		0.996	1.016	1.036	1.055	1.092	1.128	1.162	1.195	1.227
461.69	h	1204.51		1211.55	1219.65	1227.35	1234.94	1249.24	1262.84	1275.93	1288.53	1300.73
470	v	0.958		0.971	0.991	1.011	1.030	1.067	1.101	1.135	1.168	1.199
463.82	h	1204.50		1209.75	1217.95	1225.85	1233.45	1248.04	1261.74	1274.93	1287.62	1299.92
480	v	0.938		0.946	0.967	0.986	1.005	1.042	1.076	1.109	1.142	1.173
465.91	h	1204.41		1207.95	1216.35	1224.34	1232.04	1246.74	1260.64	1273.93	1286.72	1299.03
490	v	0.919		0.923	0.944	0.963	0.982	1.018	1.052	1.085	1.117	1.147
467.97	h	1204.35		1206.15	1214.60	1222.75	1230.60	1245.39	1259.48	1272.93	1285.78	1298.22
500	v	0.901		0.901	0.921	0.940	0.959	0.995	1.029	1.061	1.092	1.123
470.00	h	1204.25		1204.25	1212.90	1221.15	1229.10	1244.09	1258.34	1271.88	1284.83	1297.38
525	v	0.858		0.868	0.887	0.906	0.924	0.942	0.959	0.976	0.992	
474.95	h	1204.00		1208.55	1217.15	1225.35	1233.37	1241.28	1248.87	1256.25	1263.32	

PSIG & Sat. Temp., °F.	SAT. VAPOR	480°	490°	500°	510°	520°	530°	540°	550°	560°	570°	580°	590°	600°
550	v	0.820	0.824	0.839	0.857	0.875	0.892	0.908	0.924	0.940	0.955	0.970	0.984	0.999
479.73	h	1203.71	1204.34	1212.90	1221.45	1229.60	1237.44	1244.99	1252.44	1259.58	1266.58	1273.33	1280.03	1286.58
575	v	0.784		0.794	0.812	0.830	0.846	0.862	0.878	0.893	0.908	0.923	0.937	0.951
484.35	h	1203.40		1208.55	1217.45	1225.85	1233.94	1241.74	1249.34	1256.64	1263.83	1270.83	1277.63	1284.33
600	v	0.751		0.753	0.771	0.788	0.804	0.820	0.836	0.851	0.865	0.880	0.894	0.907
488.82	h	1203.01		1204.11	1213.30	1222.05	1230.40	1238.44	1246.19	1253.74	1261.04	1268.13	1275.13	1281.88
625	v	0.720		0.732	0.749	0.766	0.781	0.797	0.811	0.826	0.840	0.853	0.867	0.880
493.16	h	1202.51		1209.05	1218.05	1226.75	1235.04	1243.04	1250.74	1258.23	1265.43	1272.53	1279.43	1286.23
650	v	0.692		0.697	0.714	0.730	0.745	0.760	0.775	0.789	0.803	0.816	0.829	0.842
497.36	h	1202.01		1204.55	1214.00	1223.00	1231.54	1239.74	1247.64	1255.34	1262.78	1269.98	1277.03	1283.93
675	v	0.666			0.680	0.696	0.712	0.727	0.741	0.755	0.769	0.782	0.795	0.807
501.45	h	1201.41			1209.75	1219.05	1227.94	1236.25	1244.54	1252.34	1259.94	1267.33	1274.53	1281.53
700	v	0.641			0.649	0.665	0.680	0.695	0.709	0.723	0.736	0.749	0.762	0.774
503.23	h	1200.86			1205.45	1215.10	1224.20	1232.94	1241.29	1249.34	1257.14	1264.68	1272.03	1279.18

PSIG & Sat. Temp., °F.	SAT. VAPOR	510°	520°	530°	540°	550°	560°	570°	580°	590°	600°
725 509.29	v h	0.618 1200.21	0.636 1210.95	0.651 1220.45	0.666 1229.44	0.680 1238.04	0.693 1246.34	0.707 1254.24	0.719 1261.93	0.732 1269.43	0.744 1276.73
750 513.05	v h	0.597 1199.59	0.608 1206.77	0.623 1216.51	0.638 1225.78	0.652 1234.60	0.666 1243.12	0.679 1251.24	0.691 1259.15	0.704 1266.81	0.716 1274.23
775 516.73	v h	0.577 1198.89	0.582 1202.35	0.597 1212.49	0.612 1222.07	0.626 1231.20	0.639 1239.92	0.652 1248.24	0.665 1256.35	0.677 1264.17	0.689 1271.73
800 520.32	v h	0.558 1198.19		0.573 1208.33	0.587 1218.27	0.601 1227.68	0.615 1236.66	0.627 1245.18	0.640 1253.50	0.652 1261.45	0.663 1269.17
825 523.83	v h	0.540 1197.43		0.549 1204.07	0.564 1214.35	0.578 1224.02	0.591 1233.30	0.604 1242.08	0.616 1250.54	0.628 1258.65	0.640 1266.57
850 527.26	v h	0.523 1196.63		0.527 1199.65	0.542 1210.29	0.556 1220.32	0.569 1229.84	0.582 1238.92	0.594 1247.54	0.606 1255.85	0.617 1263.91
875 530.61	v h	0.507 1195.77			0.521 1206.13	0.535 1216.57	0.548 1226.34	0.561 1235.66	0.573 1244.48	0.585 1253.00	0.596 1261.21
900 533.90	v h	0.492 1194.93			0.501 1201.87	0.515 1212.65	0.528 1222.72	0.541 1232.30	0.553 1241.38	0.564 1250.10	0.576 1258.51
925 537.11	v h	0.478 1194.07			0.482 1197.40	0.496 1208.59	0.509 1219.02	0.522 1228.84	0.534 1238.22	0.545 1247.14	0.557 1255.75
950 540.26	v h	0.464 1193.17				0.478 1204.43	0.491 1215.21	0.504 1225.34	0.516 1234.96	0.527 1244.14	0.538 1252.90
975 543.35	v h	0.451 1192.21				0.460 1200.11	0.474 1211.31	0.486 1221.78	0.498 1231.66	0.510 1241.08	0.521 1250.00
1000 546.36	v h	0.439 1191.24				0.449 1196.23	0.457 1207.29	0.470 1218.10	0.482 1228.27	0.494 1237.92	0.505 1247.07
1050 552.26	v h	0.415 1189.28					0.426 1198.88	0.439 1210.45	0.451 1221.25	0.463 1231.43	0.474 1241.08
1100 557.94	v h	0.394 1187.15					0.396 1190.35	0.410 1202.30	0.423 1213.87	0.434 1224.64	0.445 1234.79
1150 563.44	v h	0.375 1184.95						0.384 1193.63	0.396 1206.12	0.408 1217.55	0.419 1228.23
1200 568.75	v h	0.357 1182.69						0.358 1185.17	0.372 1197.84	0.384 1210.11	0.395 1221.44

PSIG & Sat. Temp., °F.	SAT. VAPOR	580°	590°	600°	
1250 573.90	v h	0.340 1180.29	0.349 1188.97	0.361 1202.19	0.372 1214.30
1300 578.90	v h	0.325 1177.87	0.326 1180.31	0.339 1193.81	0.351 1206.71
1350 583.75	v h	0.311 1175.31		0.319 1184.81	0.331 1198.79
1400 588.46	v h	0.297 1172.61	0.299 1175.68	0.312 1190.38	
1450 593.05	v h	0.285 1169.88		0.294 1181.28	
1500 597.50	v h	0.273 1167.05		0.277 1172.54	
1600 606.11	v h	0.252 1161.19			