

勿携出館外 醫 印 與 過 熱 表

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(包括飽和水液之性質)

附莫理耳與艾能獲圖

計 季 能 斯 著

朱 瑞 節 譯

龍門聯合書局印行

表熱過與飽和之汽

(包括飽和水液之性質)

附莫理耳與艾能獲圖

Thermodynamic

Properties of Steam

by

J. H. Keenan and F. G. Keyes

朱瑞節譯

行印局書聯合門龍

換 算 表

溫度	華氏度數 = 攝氏度數 $\times \frac{9}{5} + 32$ 攝氏度數 = (華氏度數 - 32) $\times \frac{5}{9}$
壓力	1 吋汞柱 (32°F) = 2.54 公分汞柱 (0°C) 1 公分汞柱 (0°C) = 0.3937 吋汞柱 (32°F) 1 磅每平方吋 = 0.07037 公斤每平方公分 1 公斤每平方公分 = 14.2223 磅每平方吋 1 標準大氣 = 14.6959 磅每平方吋 = 1.033228 公斤每平方公分 = 76 公分汞柱 (密度 13.5951 克每平方公分, 重力 加速度 980.665 公分每秒每秒)
比體積	1 立方呎每磅 = 0.62428 立方公尺每公斤
比 _內 熱 _能	1 英熱單位每磅 = 0.555556 克卡每克
長度	1 吋 = 2.54000 公分 1 公尺 = 39.37 吋
面積	1 平方呎 = 0.093 平方公尺 1 平方公尺 = 10.76 平方呎
體積	1 立方呎 = 0.028 立方公尺 1 立方公尺 = 35.3 立方呎

譯 者 之 言

譯者教授熱力工程，感於汽之問題，必須應用詳細圖表，而編譯自拿艾能獲郝去返三氏之熱力工程時，察其附表，簡不適用，為使同學便於熟練起見，特將原著附表刪去，另印此冊，錄自計能與季斯所著汽之飽和與過熱表最新之1948年版，而將三氏原著之艾能獲圖合為一張與莫理耳圖一併附入，圖之尺寸，採取小者，以查閱方便為目的，學習時用之，最為適宜；又於編末加氮，二氧化碳，及二氧化硫之飽和性質表，與過熱汽之平均比熱圖，則考試時攜帶本冊，可以解決類似三氏熱力工程學中一切關於氣體之習題矣。

本冊承錢祥麟先生之熱心幫助謹此附謝。

譯 名 對 照 表

片 = Entropy 讀音如片，取 $\int \frac{dQ}{T}$ 之意義，因 dQ 為微加熱量，熱字從火，而片為像形，是合會意與像形而得者，讀作片音，可想見其熱之加入片片然微小而均勻也。

氲 = Vapour 讀音如蒸，因其介乎氣與液之間，是於氣液兩字中各取代表以合成之。

飽和液體 = Saturated liquid

飽和氲體 = Dry saturated vapour

過熱氲體 = Superheated vapour

比體積 = Specific volume

比容熱量 = Specific heat content

比片 = Specific entropy

比內能 = Specific internal energy

汽化熱 = Vaporization

英熱單位 = British thermal unit

第一表 飽和：溫度

溫度 華氏 °F	絕對壓力		比體積			比合熱量			比焓			溫度 華氏 °F
	平方吋 吋永柱 P	吋永柱 吋永柱 P	飽和 液體 V _l	飽和 蒸汽 V _g	飽和 蒸汽 V _g	飽和 液體 h _l	飽和 蒸汽 h _g	飽和 蒸汽 h _g	飽和 液體 φ _l	飽和 蒸汽 φ _g	飽和 蒸汽 φ _g	
32°	0.08854	0.1803	0.01602	3306	3306	0.00	1075.8	1075.8	0.0000	2.1877	2.1877	32°
33	0.09223	0.1878	0.01602	3180	3180	1.01	1075.2	1076.2	0.0020	2.1821	2.1841	33
34	0.09603	0.1955	0.01602	3061	3061	2.02	1074.7	1076.7	0.0041	2.1764	2.1805	34
35°	0.09995	0.2035	0.01602	2947	2947	3.02	1074.1	1077.1	0.0061	2.1709	2.1770	35°
36	0.10401	0.2118	0.01602	2837	2837	4.03	1073.6	1077.6	0.0081	2.1654	2.1735	36
37	0.10821	0.2203	0.01602	2732	2732	5.04	1073.0	1078.0	0.0102	2.1598	2.1700	37
38	0.11256	0.2292	0.01602	2632	2632	6.04	1072.4	1078.4	0.0122	2.1544	2.1666	38
39	0.11705	0.2383	0.01602	2536	2536	7.04	1071.9	1078.9	0.0142	2.1489	2.1631	39
40°	0.12170	0.2478	0.01602	2444	2444	8.05	1071.3	1079.3	0.0162	2.1435	2.1597	40°
41	0.12652	0.2576	0.01602	2356	2356	9.05	1070.7	1079.7	0.0182	2.1381	2.1563	41
42	0.13150	0.2677	0.01602	2271	2271	10.05	1070.1	1080.2	0.0202	2.1327	2.1529	42
43	0.13665	0.2782	0.01602	2190	2190	11.06	1069.5	1080.6	0.0222	2.1274	2.1496	43
44	0.14199	0.2891	0.01602	2112	2112	12.06	1068.9	1081.0	0.0242	2.1220	2.1462	44
45°	0.14752	0.3004	0.01602	2036.4	2036.4	13.06	1068.4	1081.5	0.0262	2.1167	2.1429	45°
46	0.15323	0.3120	0.01602	1964.3	1964.3	14.06	1067.8	1081.9	0.0282	2.1113	2.1395	46
47	0.15914	0.3240	0.01603	1895.1	1895.1	15.07	1067.3	1082.4	0.0302	2.1059	2.1362	47
48	0.16525	0.3364	0.01603	1828.6	1828.6	16.07	1066.7	1082.8	0.0321	2.1008	2.1329	48
49	0.17157	0.3493	0.01603	1764.7	1764.7	17.07	1066.1	1083.2	0.0341	2.0955	2.1297	49
50°	0.17811	0.3626	0.01603	1703.2	1703.2	18.07	1065.6	1083.7	0.0361	2.0903	2.1264	50°
51	0.18486	0.3764	0.01603	1644.2	1644.2	19.07	1065.0	1084.1	0.0380	2.0852	2.1232	51
52	0.19182	0.3906	0.01603	1587.6	1587.6	20.07	1064.4	1084.5	0.0400	2.0799	2.1199	52
53	0.19900	0.4052	0.01603	1533.3	1533.3	21.07	1063.9	1085.0	0.0420	2.0747	2.1167	53
54	0.20642	0.4203	0.01603	1481.0	1481.0	22.07	1063.3	1085.4	0.0439	2.0697	2.1136	54
55°	0.2141	0.4359	0.01603	1430.7	1430.7	23.07	1062.7	1085.8	0.0459	2.0645	2.1104	55°
56	0.2220	0.4520	0.01603	1382.4	1382.4	24.06	1062.2	1086.3	0.0478	2.0594	2.1072	56
57	0.2302	0.4686	0.01603	1335.9	1335.9	25.06	1061.6	1086.7	0.0497	2.0544	2.1041	57
58	0.2386	0.4858	0.01604	1291.1	1291.1	26.06	1061.0	1087.1	0.0517	2.0493	2.1010	58
59	0.2473	0.5035	0.01604	1248.1	1248.1	27.06	1060.5	1087.6	0.0536	2.0443	2.0979	59
60°	0.2563	0.5218	0.01604	1206.6	1206.6	28.06	1059.9	1088.0	0.0555	2.0393	2.0948	60°
61	0.2655	0.5407	0.01604	1166.8	1166.8	29.06	1059.3	1088.4	0.0574	2.0343	2.0917	61
62	0.2751	0.5601	0.01604	1128.4	1128.4	30.05	1058.8	1088.9	0.0593	2.0293	2.0886	62
63	0.2850	0.5802	0.01604	1091.4	1091.4	31.05	1058.2	1089.3	0.0613	2.0243	2.0855	63
64	0.2951	0.6009	0.01605	1055.7	1055.7	32.05	1057.6	1089.7	0.0632	2.0194	2.0826	64
65°	0.3056	0.6222	0.01605	1021.4	1021.4	33.05	1057.1	1090.2	0.0651	2.0145	2.0796	65°
66	0.3164	0.6442	0.01605	988.4	988.4	34.05	1056.5	1090.6	0.0670	2.0096	2.0766	66
67	0.3276	0.6669	0.01605	956.6	956.6	35.05	1056.0	1091.0	0.0689	2.0047	2.0736	67
68	0.3390	0.6903	0.01605	925.9	925.9	36.04	1055.5	1091.5	0.0708	1.9998	2.0706	68
69	0.3509	0.7144	0.01605	896.3	896.3	37.04	1054.9	1091.9	0.0726	1.9950	2.0676	69
70°	0.3631	0.7392	0.01606	867.8	867.9	38.04	1054.3	1092.3	0.0745	1.9902	2.0647	70°
71	0.3756	0.7648	0.01606	840.4	840.4	39.04	1053.8	1092.8	0.0764	1.9854	2.0618	71
72	0.3886	0.7912	0.01606	813.9	813.9	40.04	1053.2	1093.2	0.0783	1.9805	2.0588	72
73	0.4019	0.8183	0.01606	788.3	788.4	41.03	1052.6	1093.6	0.0802	1.9757	2.0559	73
74	0.4156	0.8462	0.01606	763.7	763.8	42.03	1052.1	1094.1	0.0820	1.9710	2.0530	74
75°	0.4298	0.8750	0.01607	740.0	740.0	43.03	1051.5	1094.5	0.0839	1.9663	2.0502	75°
76	0.4443	0.9046	0.01607	717.1	717.1	44.03	1050.9	1094.9	0.0858	1.9615	2.0473	76
77	0.4593	0.9352	0.01607	694.9	694.9	45.02	1050.4	1095.4	0.0876	1.9569	2.0445	77
78	0.4747	0.9666	0.01607	673.6	673.6	46.02	1049.8	1095.8	0.0895	1.9521	2.0416	78
79	0.4906	0.9989	0.01608	653.0	653.0	47.02	1049.2	1096.2	0.0913	1.9475	2.0388	79
80°	0.5069	1.0321	0.01608	633.1	633.1	48.02	1048.6	1096.6	0.0932	1.9428	2.0360	80°
81	0.5237	1.0664	0.01608	613.9	613.9	49.02	1048.1	1097.1	0.0950	1.9382	2.0332	81
82	0.5410	1.1016	0.01608	595.3	595.3	50.01	1047.5	1097.5	0.0969	1.9335	2.0304	82
83	0.5588	1.1378	0.01609	577.4	577.4	51.01	1046.9	1097.9	0.0987	1.9290	2.0277	83
84	0.5771	1.1750	0.01609	560.1	560.2	52.01	1046.4	1098.4	0.1005	1.9244	2.0249	84
85°	0.5959	1.2133	0.01609	543.4	543.5	53.00	1045.8	1098.8	0.1024	1.9198	2.0222	85°
86	0.6152	1.2527	0.01609	527.3	527.3	54.00	1045.2	1099.2	0.1042	1.9153	2.0195	86
87	0.6351	1.2931	0.01610	511.7	511.7	55.00	1044.7	1099.7	0.1060	1.9108	2.0168	87
88	0.6556	1.3347	0.01610	496.6	496.7	56.00	1044.1	1100.1	0.1079	1.9062	2.0141	88
89	0.6766	1.3775	0.01610	482.1	482.1	56.99	1043.5	1100.5	0.1097	1.9017	2.0114	89

第一表 飽和：温度

温度 率氏 t	絕對壓力		比體積		比合熱量			比序			温度 華氏 t°
	磅 平方吋 p	吋水柱	飽和 液體 V _l	飽和 氣體 u _g	飽和 液體 h _l	飽和 氣體 r	飽和 氣體 h _g	飽和 液體 φ _l	飽和 氣體 φ _g	飽和 氣體 φ _g	
90°	0.6982	1.4215	0.01610	468.0	57.99	1042.9	1100.9	0.1115	1.8972	2.0087	90°
91	0.7204	1.4667	0.01611	454.4	58.99	1042.4	1101.4	0.1133	1.8927	2.0060	91
92	0.7432	1.5131	0.01611	441.2	59.99	1041.8	1101.8	0.1151	1.8883	2.0034	92
93	0.7666	1.5608	0.01611	428.5	60.98	1041.2	1102.2	0.1169	1.8838	2.0007	93
94	0.7906	1.6097	0.01612	416.2	61.98	1040.7	1102.6	0.1187	1.8794	1.9981	94
95°	0.8153	1.6600	0.01612	404.3	62.98	1040.1	1103.1	0.1205	1.8750	1.9955	95°
96	0.8407	1.7117	0.01612	392.8	63.98	1039.5	1103.5	0.1223	1.8706	1.9929	96
97	0.8668	1.7647	0.01612	381.7	64.97	1038.9	1103.9	0.1241	1.8662	1.9903	97
98	0.8935	1.8192	0.01613	370.9	65.97	1038.4	1104.4	0.1259	1.8618	1.9877	98
99	0.9210	1.8751	0.01613	360.4	66.97	1037.8	1104.8	0.1277	1.8575	1.9852	99
100°	0.9492	1.9325	0.01613	350.3	67.97	1037.2	1105.2	0.1295	1.8531	1.9826	100°
101	0.9781	1.9915	0.01614	340.6	68.96	1036.6	1105.6	0.1313	1.8488	1.9801	101
102	1.0078	2.0519	0.01614	331.1	69.96	1036.1	1106.1	0.1330	1.8445	1.9775	102
103	1.0382	2.1138	0.01614	321.9	70.96	1035.5	1106.5	0.1348	1.8402	1.9750	103
104	1.0695	2.1775	0.01615	313.1	71.96	1034.9	1106.9	0.1366	1.8359	1.9725	104
105°	1.1016	2.2429	0.01615	304.5	72.95	1034.3	1107.3	0.1383	1.8317	1.9700	105°
106	1.1345	2.3099	0.01615	296.1	73.95	1033.8	1107.8	0.1401	1.8274	1.9675	106
107	1.1683	2.3786	0.01616	288.1	74.95	1033.3	1108.2	0.1419	1.8232	1.9651	107
108	1.2029	2.4491	0.01616	280.3	75.95	1032.7	1108.6	0.1436	1.8190	1.9626	108
109	1.2384	2.5214	0.01616	272.7	76.94	1032.1	1109.0	0.1454	1.8147	1.9601	109
110°	1.2748	2.5955	0.01617	265.3	77.94	1031.6	1109.5	0.1471	1.8106	1.9577	110°
111	1.3121	2.6715	0.01617	258.2	78.94	1031.0	1109.9	0.1489	1.8064	1.9553	111
112	1.3504	2.7494	0.01617	251.3	79.94	1030.4	1110.3	0.1506	1.8023	1.9529	112
113	1.3896	2.8293	0.01618	244.6	80.94	1029.8	1110.7	0.1524	1.7981	1.9505	113
114	1.4298	2.9111	0.01618	238.2	81.93	1029.2	1111.1	0.1541	1.7940	1.9481	114
115°	1.4709	2.9948	0.01618	231.9	82.93	1028.7	1111.6	0.1559	1.7898	1.9457	115°
116	1.5130	3.0806	0.01619	225.8	83.93	1028.1	1112.0	0.1576	1.7857	1.9433	116
117	1.5563	3.1687	0.01619	219.9	84.93	1027.5	1112.4	0.1593	1.7816	1.9409	117
118	1.6006	3.2589	0.01620	214.2	85.92	1026.9	1112.8	0.1610	1.7776	1.9386	118
119	1.6459	3.3512	0.01620	208.6	86.92	1026.3	1113.2	0.1628	1.7735	1.9363	119
120°	1.6924	3.4458	0.01620	203.25	87.92	1025.8	1113.7	0.1645	1.7694	1.9339	120°
121	1.7400	3.5427	0.01621	198.02	88.92	1025.2	1114.1	0.1662	1.7654	1.9316	121
122	1.7888	3.6420	0.01621	192.93	89.92	1024.6	1114.5	0.1679	1.7614	1.9293	122
123	1.8387	3.7436	0.01622	188.01	90.91	1024.0	1114.9	0.1696	1.7574	1.9270	123
124	1.8897	3.8475	0.01622	183.23	91.91	1023.4	1115.3	0.1714	1.7533	1.9247	124
125°	1.9420	3.9539	0.01622	178.59	92.91	1022.9	1115.8	0.1731	1.7493	1.9224	125°
126	1.9955	4.0629	0.01623	174.09	93.91	1022.3	1116.2	0.1748	1.7454	1.9202	126
127	2.0503	4.1745	0.01623	169.71	94.91	1021.7	1116.6	0.1765	1.7414	1.9179	127
128	2.1064	4.2887	0.01624	165.46	95.91	1021.1	1117.0	0.1782	1.7374	1.9156	128
129	2.1638	4.4055	0.01624	161.33	96.90	1020.5	1117.4	0.1799	1.7335	1.9134	129
130°	2.2225	4.5251	0.01625	157.32	97.90	1020.0	1117.9	0.1816	1.7296	1.9112	130°
131	2.2826	4.6474	0.01625	153.43	98.90	1019.4	1118.3	0.1833	1.7257	1.9090	131
132	2.3440	4.7725	0.01626	149.65	99.90	1018.8	1118.7	0.1849	1.7218	1.9067	132
133	2.4069	4.9005	0.01626	145.97	100.90	1018.2	1119.1	0.1866	1.7179	1.9045	133
134	2.4712	5.0314	0.01626	142.40	101.90	1017.6	1119.5	0.1883	1.7141	1.9023	134
135°	2.5370	5.1653	0.01627	138.93	102.90	1017.0	1119.9	0.1900	1.7102	1.9002	135°
136	2.6042	5.3022	0.01627	135.56	103.90	1016.4	1120.3	0.1917	1.7063	1.8980	136
137	2.6729	5.4421	0.01628	132.29	104.89	1015.9	1120.8	0.1934	1.7024	1.8958	137
138	2.7432	5.5852	0.01628	129.10	105.89	1015.3	1121.2	0.1950	1.6987	1.8937	138
139	2.8151	5.7316	0.01629	126.00	106.89	1014.7	1121.6	0.1967	1.6948	1.8915	139
140°	2.8886	5.8812	0.01629	122.99	107.89	1014.1	1122.0	0.1984	1.6910	1.8894	140°
141	2.9637	6.0341	0.01630	120.06	108.89	1013.5	1122.4	0.2000	1.6873	1.8873	141
142	3.0404	6.1903	0.01630	117.22	109.89	1012.9	1122.8	0.2016	1.6835	1.8851	142
143	3.1188	6.3500	0.01631	114.45	110.89	1012.3	1123.2	0.2033	1.6797	1.8830	143
144	3.1990	6.5132	0.01631	111.75	111.89	1011.7	1123.6	0.2049	1.6760	1.8809	144

第一表 飽和：溫度

溫度 華氏 °F	絕對壓力		比體積			比合熱量			比焓			溫度 華氏 °F
	平方吋 p	吋汞柱	飽和 液體 V _l	電化 u	飽和 氣體 V _g	飽和 液體 h _l	電化 r	飽和 氣體 h _g	飽和 液體 φ _l	電化 φ _u	飽和 氣體 φ _g	
145°	3.281	6.680	0.01632	109.13	109.15	112.89	1011.2	1124.1	0.2066	1.6722	1.8788	145°
146	3.365	6.850	0.01632	106.58	106.60	113.89	1010.6	1124.5	0.2083	1.6685	1.8768	146
147	3.450	7.024	0.01633	104.10	104.12	114.89	1010.0	1124.9	0.2099	1.6648	1.8747	147
148	3.537	7.202	0.01633	101.69	101.71	115.89	1009.4	1125.3	0.2116	1.6610	1.8726	148
149	3.627	7.384	0.01634	99.34	99.36	116.89	1008.8	1125.7	0.2133	1.6573	1.8706	149
150°	3.718	7.569	0.01634	97.06	97.07	117.89	1008.2	1126.1	0.2149	1.6537	1.8685	150°
151	3.811	7.759	0.01635	94.83	94.85	118.89	1007.6	1126.5	0.2165	1.6500	1.8665	151
152	3.906	7.952	0.01635	92.67	92.63	119.89	1007.0	1126.9	0.2182	1.6463	1.8645	152
153	4.003	8.150	0.01636	90.56	90.57	120.89	1006.4	1127.3	0.2198	1.6427	1.8624	153
154	4.102	8.351	0.01636	88.51	88.52	121.89	1005.8	1127.7	0.2214	1.6390	1.8604	154
155°	4.203	8.557	0.01637	86.51	86.52	122.89	1005.2	1128.1	0.2230	1.6354	1.8584	155°
156	4.306	8.767	0.01637	84.56	84.58	123.89	1004.7	1128.6	0.2246	1.6318	1.8564	156
157	4.411	8.981	0.01638	82.67	82.69	124.89	1004.1	1129.0	0.2263	1.6282	1.8545	157
158	4.519	9.200	0.01638	80.82	80.84	125.89	1003.5	1129.4	0.2279	1.6246	1.8525	158
159	4.629	9.424	0.01639	79.03	79.04	126.89	1002.9	1129.8	0.2295	1.6210	1.8505	159
160°	4.741	9.652	0.01639	77.27	77.29	127.89	1002.3	1130.2	0.2311	1.6174	1.8485	160°
161	4.855	9.885	0.01640	75.57	75.58	128.89	1001.7	1130.6	0.2327	1.6138	1.8466	161
162	4.971	10.122	0.01640	73.91	73.92	129.89	1001.1	1131.0	0.2343	1.6103	1.8446	162
163	5.090	10.364	0.01641	72.29	72.30	130.89	1000.5	1131.4	0.2360	1.6067	1.8427	163
164	5.212	10.611	0.01641	70.71	70.73	131.89	999.9	1131.8	0.2376	1.6032	1.8408	164
165°	5.335	10.863	0.01642	69.17	69.19	132.89	999.3	1132.2	0.2392	1.5997	1.8388	165°
166	5.461	11.120	0.01643	67.67	67.69	133.89	998.7	1132.6	0.2408	1.5961	1.8369	166
167	5.590	11.382	0.01643	66.21	66.23	134.89	998.1	1133.0	0.2424	1.5926	1.8350	167
168	5.721	11.649	0.01644	64.79	64.80	135.90	997.5	1133.4	0.2440	1.5891	1.8331	168
169	5.855	11.921	0.01644	63.40	63.41	136.90	996.9	1133.8	0.2455	1.5857	1.8312	169
170°	5.992	12.199	0.01645	62.04	62.06	137.90	996.3	1134.2	0.2472	1.5822	1.8293	170°
171	6.131	12.483	0.01645	60.72	60.74	138.90	995.7	1134.6	0.2488	1.5787	1.8275	171
172	6.273	12.772	0.01646	59.43	59.45	139.90	995.1	1135.0	0.2503	1.5753	1.8256	172
173	6.417	13.066	0.01647	58.18	58.20	140.90	994.5	1135.4	0.2519	1.5718	1.8237	173
174	6.565	13.366	0.01647	56.96	56.97	141.90	993.9	1135.8	0.2535	1.5684	1.8219	174
175°	6.715	13.671	0.01648	55.76	55.78	142.91	993.3	1136.2	0.2551	1.5649	1.8200	175°
176	6.868	13.983	0.01648	54.60	54.61	143.91	992.7	1136.6	0.2567	1.5615	1.8182	176
177	7.024	14.301	0.01649	53.46	53.48	144.91	992.1	1137.0	0.2583	1.5581	1.8164	177
178	7.183	14.625	0.01650	52.35	52.37	145.91	991.5	1137.4	0.2599	1.5547	1.8146	178
179	7.345	14.955	0.01650	51.27	51.29	146.92	990.8	1137.7	0.2614	1.5513	1.8127	179
180°	7.510	15.291	0.01651	50.21	50.23	147.92	990.2	1138.1	0.2630	1.5480	1.8109	180°
181	7.678	15.633	0.01651	49.18	49.20	148.92	989.6	1138.5	0.2645	1.5446	1.8091	181
182	7.850	15.982	0.01652	48.18	48.19	149.92	989.0	1138.9	0.2661	1.5412	1.8073	182
183	8.024	16.337	0.01653	47.19	47.21	150.93	988.4	1139.3	0.2676	1.5379	1.8055	183
184	8.202	16.699	0.01653	46.24	46.25	151.93	987.8	1139.7	0.2692	1.5346	1.8038	184
185°	8.383	17.068	0.01654	45.29	45.31	152.93	987.2	1140.1	0.2708	1.5312	1.8020	185°
186	8.567	17.443	0.01654	44.39	44.40	153.94	986.6	1140.5	0.2723	1.5279	1.8002	186
187	8.755	17.825	0.01655	43.50	43.51	154.94	986.0	1140.9	0.2739	1.5246	1.7985	187
188	8.946	18.214	0.01655	42.62	42.64	155.94	985.4	1141.3	0.2754	1.5213	1.7967	188
189	9.141	18.611	0.01656	41.77	41.79	156.95	984.8	1141.7	0.2770	1.5180	1.7950	189
190°	9.339	19.014	0.01657	40.94	40.96	157.95	984.1	1142.0	0.2785	1.5147	1.7932	190°
191	9.541	19.425	0.01658	40.13	40.15	158.95	983.4	1142.4	0.2801	1.5114	1.7915	191
192	9.746	19.843	0.01658	39.34	39.36	159.96	982.8	1142.8	0.2816	1.5082	1.7898	192
193	9.955	20.269	0.01659	38.57	38.58	160.96	982.2	1143.2	0.2831	1.5049	1.7880	193
194	10.168	20.703	0.01659	37.81	37.83	161.97	981.6	1143.6	0.2846	1.5017	1.7863	194
195°	10.385	21.144	0.01660	37.07	37.09	162.97	981.0	1144.0	0.2862	1.4984	1.7846	195°
196	10.605	21.593	0.01661	36.35	36.37	163.97	980.4	1144.4	0.2877	1.4952	1.7829	196
197	10.830	22.050	0.01661	35.64	35.66	164.98	979.7	1144.7	0.2892	1.4920	1.7812	197
198	11.058	22.515	0.01662	34.95	34.97	165.98	979.1	1145.1	0.2907	1.4888	1.7795	198
199	11.290	22.987	0.01663	34.28	34.30	166.99	978.5	1145.5	0.2923	1.4856	1.7779	199

第一表 飽和：温度

温度 華氏 °F	絕對壓力		比體積			比合熱量			比序			溫度 華氏 °F
	磅 平方吋 p	吋水柱	飽和 液體 V_f	汽化 u	飽和 氣體 V_g	飽和 液體 h_f	汽化 r	飽和 氣體 h_g	飽和 液體 ϕ_f	汽化 ϕ_u	飽和 氣體 ϕ_g	
200°	11.526	23.467	0.01663	33.62	33.64	167.99	977.9	1145.9	0.2938	1.4824	1.7762	200°
202	12.011	24.455	0.01665	32.35	32.37	170.00	976.6	1146.6	0.2969	1.4760	1.7729	202
204	12.512	25.475	0.01666	31.14	31.15	172.02	975.4	1147.4	0.2999	1.4697	1.7696	204
206	13.031	26.531	0.01667	29.97	29.99	174.03	974.2	1148.2	0.3029	1.4634	1.7663	206
208	13.568	27.625	0.01669	28.86	28.88	176.04	972.9	1148.9	0.3059	1.4571	1.7630	208
210°	14.123	28.755	0.01670	27.80	27.82	178.05	971.6	1149.7	0.3090	1.4508	1.7598	210°
212	14.696	29.922	0.01672	26.78	26.80	180.07	970.3	1150.4	0.3120	1.4446	1.7566	212
214	15.289	31.129	0.01673	25.81	25.83	182.08	969.0	1151.1	0.3149	1.4385	1.7534	214
216	15.901	32.375	0.01674	24.88	24.90	184.10	967.8	1151.9	0.3179	1.4323	1.7502	216
218	16.533	33.662	0.01676	23.99	24.01	186.11	966.5	1152.6	0.3209	1.4262	1.7471	218
220°	17.186	34.992	0.01677	23.13	23.15	188.13	965.2	1153.4	0.3239	1.4201	1.7440	220°
222	17.861	36.365	0.01679	22.31	22.33	190.15	963.9	1154.1	0.3268	1.4141	1.7409	222
224	18.557	37.782	0.01680	21.53	21.55	192.17	962.6	1154.8	0.3298	1.4080	1.7378	224
226	19.275	39.244	0.01682	20.78	20.79	194.18	961.3	1155.5	0.3328	1.4020	1.7348	226
228	20.016	40.753	0.01683	20.06	20.07	196.20	960.1	1156.3	0.3357	1.3961	1.7318	228
230°	20.780	42.308	0.01684	19.365	19.382	198.23	958.8	1157.0	0.3387	1.3901	1.7288	230°
232	21.567	43.911	0.01686	18.703	18.720	200.25	957.4	1157.7	0.3416	1.3842	1.7258	232
234	22.379	45.564	0.01688	18.067	18.084	202.27	956.1	1158.4	0.3444	1.3784	1.7228	234
236	23.217	47.269	0.01689	17.456	17.473	204.29	954.8	1159.1	0.3473	1.3725	1.7199	236
238	24.080	49.027	0.01691	16.869	16.886	206.32	953.5	1159.8	0.3502	1.3667	1.7169	238
240°	24.969	50.837	0.01692	16.306	16.323	208.34	952.2	1160.5	0.3531	1.3609	1.7140	240°
242	25.884	52.701	0.01694	15.765	15.782	210.37	950.8	1161.2	0.3560	1.3551	1.7111	242
244	26.827	54.620	0.01696	15.245	15.262	212.39	949.5	1161.9	0.3589	1.3494	1.7083	244
246	27.798	56.597	0.01697	14.745	14.762	214.42	948.2	1162.6	0.3618	1.3436	1.7054	246
248	28.797	58.631	0.01699	14.265	14.282	216.45	946.8	1163.3	0.3647	1.3379	1.7026	248
250°	29.825	60.725	0.01700	13.804	13.821	218.48	945.5	1164.0	0.3675	1.3323	1.6998	250°
252	30.884	62.880	0.01702	13.360	13.377	220.51	944.2	1164.7	0.3704	1.3266	1.6970	252
254	31.973	65.098	0.01704	12.933	12.950	222.54	942.8	1165.3	0.3732	1.3210	1.6942	254
256	33.093	67.378	0.01705	12.522	12.539	224.58	941.4	1166.0	0.3761	1.3154	1.6915	256
258	34.245	69.723	0.01707	12.127	12.144	226.61	940.1	1166.7	0.3789	1.3099	1.6888	258
260°	35.429	72.134	0.01709	11.746	11.763	228.64	938.7	1167.3	0.3817	1.3043	1.6860	260°
262	36.646	74.612	0.01710	11.379	11.396	230.68	937.3	1168.0	0.3845	1.2988	1.6833	262
264	37.897	77.159	0.01712	11.026	11.043	232.72	936.0	1168.7	0.3874	1.2933	1.6807	264
266	39.182	79.775	0.01714	10.687	10.704	234.76	934.5	1169.3	0.3902	1.2878	1.6780	266
268	40.502	82.463	0.01715	10.359	10.376	236.80	933.2	1170.0	0.3930	1.2824	1.6753	268
270°	41.858	85.225	0.01717	10.044	10.061	238.84	931.8	1170.6	0.3958	1.2769	1.6727	270°
272	43.252	88.062	0.01719	9.739	9.756	240.88	930.3	1171.2	0.3986	1.2715	1.6701	272
274	44.682	90.974	0.01721	9.446	9.463	242.92	929.0	1171.9	0.4014	1.2661	1.6675	274
276	46.150	93.963	0.01722	9.163	9.181	244.96	927.5	1172.5	0.4041	1.2608	1.6649	276
278	47.657	97.031	0.01724	8.891	8.908	247.01	926.1	1173.1	0.4069	1.2554	1.6623	278
280°	49.203	100.18	0.01726	8.628	8.645	249.06	924.7	1173.8	0.4096	1.2501	1.6597	280°
282	50.790	103.41	0.01728	8.374	8.391	251.10	923.3	1174.4	0.4124	1.2448	1.6572	282
284	52.418	106.72	0.01730	8.129	8.146	253.15	921.8	1175.0	0.4152	1.2395	1.6547	284
286	54.088	110.12	0.01732	7.892	7.910	255.20	920.4	1175.6	0.4179	1.2343	1.6522	286
288	55.800	113.61	0.01733	7.664	7.682	257.26	918.9	1176.2	0.4207	1.2290	1.6497	288
290°	57.556	117.19	0.01735	7.444	7.461	259.31	917.5	1176.8	0.4234	1.2238	1.6472	290°
292	59.356	120.85	0.01737	7.231	7.248	261.36	916.0	1177.4	0.4261	1.2186	1.6447	292
294	61.201	124.61	0.01739	7.025	7.043	263.42	914.6	1178.0	0.4288	1.2134	1.6422	294
296	63.091	128.46	0.01741	6.827	6.844	265.48	913.1	1178.6	0.4315	1.2083	1.6398	296
298	65.028	132.40	0.01743	6.635	6.652	267.53	911.6	1179.1	0.4343	1.2031	1.6374	298
300°	67.013	136.44	0.01745	6.449	6.466	269.59	910.1	1179.7	0.4369	1.1980	1.6350	300°
302	69.046	140.58	0.01747	6.269	6.287	271.66	908.5	1180.3	0.4397	1.1929	1.6326	302
304	71.127	144.82	0.01749	6.096	6.114	273.72	907.2	1180.9	0.4424	1.1878	1.6302	304
306	73.259	149.16	0.01751	5.928	5.946	275.78	905.6	1181.4	0.4450	1.1828	1.6278	306
308	75.442	153.60	0.01753	5.766	5.783	277.85	904.1	1182.0	0.4477	1.1777	1.6254	308

第一表 飽和：溫度

溫度 華氏 t	絕對壓力		比體積			比合熱量			比焓			溫度 華氏 t
	平方吋 p	飽和 液體 V _l	汽化 u	飽和 氣體 V _g	飽和 液體 h _l	汽化 r	飽和 氣體 h _g	飽和 液體 φ _l	汽化 φ _u	飽和 氣體 φ _g		
310°	77.68	0.01755	5.609	5.626	279.92	902.6	1182.5	0.4504	1.1727	1.6231	310°	
312	79.96	0.01757	5.457	5.474	281.99	901.0	1183.1	0.4530	1.1677	1.6207	312	
314	82.30	0.01759	5.310	5.327	284.06	899.5	1183.6	0.4557	1.1627	1.6184	314	
316	84.70	0.01761	5.167	5.185	286.13	898.0	1184.1	0.4584	1.1577	1.6161	316	
318	87.15	0.01763	5.030	5.047	288.20	896.5	1184.7	0.4611	1.1527	1.6138	318	
320°	89.66	0.01765	4.896	4.914	290.28	894.9	1185.2	0.4637	1.1478	1.6115	320°	
322	92.22	0.01768	4.767	4.785	292.36	893.3	1185.7	0.4664	1.1428	1.6092	322	
324	94.84	0.01770	4.642	4.660	294.43	891.8	1186.2	0.4690	1.1379	1.6069	324	
326	97.52	0.01772	4.521	4.538	296.52	890.2	1186.7	0.4717	1.1330	1.6047	326	
328	100.26	0.01774	4.403	4.421	298.60	888.6	1187.2	0.4743	1.1281	1.6024	328	
330°	103.06	0.01776	4.289	4.307	300.68	887.0	1187.7	0.4769	1.1233	1.6002	330°	
332	105.92	0.01778	4.179	4.197	302.77	885.4	1188.2	0.4795	1.1184	1.5979	332	
334	108.85	0.01781	4.072	4.090	304.86	883.8	1188.7	0.4821	1.1136	1.5957	334	
336	111.84	0.01783	3.968	3.986	306.95	882.2	1189.2	0.4847	1.1088	1.5935	336	
338	114.89	0.01785	3.868	3.886	309.04	880.6	1189.6	0.4873	1.1040	1.5913	338	
340°	118.01	0.01787	3.770	3.788	311.13	879.0	1190.1	0.4900	1.0992	1.5891	340°	
342	121.20	0.01790	3.675	3.693	313.23	877.4	1190.6	0.4926	1.0944	1.5870	342	
344	124.45	0.01792	3.584	3.602	315.33	875.7	1191.0	0.4952	1.0896	1.5848	344	
346	127.77	0.01794	3.495	3.513	317.43	874.1	1191.5	0.4978	1.0848	1.5826	346	
348	131.17	0.01797	3.408	3.426	319.53	872.4	1191.9	0.5004	1.0801	1.5805	348	
350°	134.63	0.01799	3.324	3.342	321.63	870.7	1192.3	0.5029	1.0754	1.5783	350°	
352	138.16	0.01801	3.243	3.261	323.74	869.1	1192.8	0.5055	1.0707	1.5762	352	
354	141.77	0.01804	3.164	3.182	325.85	867.3	1193.2	0.5081	1.0660	1.5741	354	
356	145.45	0.01806	3.087	3.105	327.96	865.6	1193.6	0.5106	1.0613	1.5719	356	
358	149.21	0.01808	3.012	3.030	330.07	863.9	1194.0	0.5132	1.0566	1.5698	358	
360°	153.04	0.01811	2.939	2.957	332.18	862.2	1194.4	0.5158	1.0519	1.5677	360°	
362	156.95	0.01813	2.869	2.887	334.30	860.5	1194.8	0.5183	1.0473	1.5656	362	
364	160.93	0.01816	2.801	2.819	336.42	858.8	1195.2	0.5209	1.0426	1.5635	364	
366	165.00	0.01818	2.734	2.752	338.54	857.1	1195.6	0.5235	1.0380	1.5615	366	
368	169.15	0.01821	2.669	2.687	340.66	855.3	1196.0	0.5260	1.0334	1.5594	368	
370°	173.37	0.01823	2.606	2.625	342.79	853.5	1196.3	0.5286	1.0287	1.5573	370°	
372	177.68	0.01826	2.545	2.564	344.91	851.8	1196.7	0.5311	1.0241	1.5553	372	
374	182.07	0.01829	2.486	2.504	347.04	850.0	1197.0	0.5336	1.0196	1.5532	374	
376	186.55	0.01831	2.428	2.446	349.18	848.2	1197.4	0.5362	1.0150	1.5512	376	
378	191.12	0.01834	2.372	2.390	351.31	846.4	1197.7	0.5388	1.0104	1.5492	378	
380°	195.77	0.01836	2.317	2.335	353.45	844.6	1198.1	0.5413	1.0059	1.5471	380°	
382	200.50	0.01839	2.264	2.282	355.59	842.8	1198.4	0.5438	1.0013	1.5451	382	
384	205.33	0.01842	2.212	2.231	357.73	841.0	1198.7	0.5463	0.9968	1.5431	384	
386	210.25	0.01844	2.162	2.180	359.88	839.1	1199.0	0.5488	0.9923	1.5411	386	
388	215.26	0.01847	2.113	2.131	362.02	837.3	1199.3	0.5514	0.9877	1.5391	388	
390°	220.37	0.01850	2.0651	2.0836	364.17	835.4	1199.6	0.5539	0.9832	1.5371	390°	
392	225.56	0.01853	2.0187	2.0372	366.33	833.6	1199.9	0.5564	0.9787	1.5351	392	
394	230.85	0.01855	1.9734	1.9920	368.48	831.7	1200.2	0.5589	0.9742	1.5331	394	
396	236.24	0.01858	1.9293	1.9479	370.64	829.9	1200.5	0.5614	0.9698	1.5311	396	
398	241.73	0.01861	1.8864	1.9050	372.80	827.9	1200.7	0.5639	0.9653	1.5292	398	
400°	247.31	0.01864	1.8447	1.8633	374.97	826.0	1201.0	0.5664	0.9608	1.5272	400°	
405	261.71	0.01871	1.7448	1.7635	380.39	821.2	1201.6	0.5726	0.9497	1.5223	405	
410	276.75	0.01878	1.6512	1.6700	385.83	816.3	1202.1	0.5788	0.9386	1.5174	410	
415	292.45	0.01886	1.5635	1.5823	391.29	811.3	1202.6	0.5850	0.9276	1.5126	415	
420	308.83	0.01894	1.4811	1.5000	396.77	806.3	1203.1	0.5912	0.9166	1.5078	420	
425°	325.92	0.01902	1.4036	1.4226	402.27	801.2	1203.5	0.5974	0.9056	1.5030	425°	
430	343.72	0.01910	1.3308	1.3499	407.79	796.0	1203.8	0.6035	0.8947	1.4982	430	
435	362.27	0.01918	1.2623	1.2815	413.34	790.8	1204.1	0.6097	0.8838	1.4935	435	
440	381.59	0.01926	1.1979	1.2171	418.90	785.4	1204.3	0.6158	0.8730	1.4887	440	
445	401.68	0.01935	1.1371	1.1565	424.49	780.0	1204.5	0.6219	0.8622	1.4840	445	

第一表 飽和：溫度

溫度 華氏 t	絕對壓力		比體積			比合熱量			比熵			溫度 華氏 t
	磅 平方吋 p	飽和 液體 V_f	汽化 u	飽和 氣體 V_g	飽和 液體 h_f	汽化 r	飽和 氣體 h_g	飽和 液體 ϕ_f	汽化 ϕ_g	飽和 氣體 ϕ_g		
450°	422.6	0.0194	1.0799	1.0993	430.1	774.5	1204.6	0.6280	0.8513	1.4793	450°	
455	444.3	0.0195	1.0258	1.0453	435.7	768.9	1204.6	0.6341	0.8406	1.4746	455	
460	466.9	0.0196	0.9748	0.9944	441.4	763.2	1204.6	0.6402	0.8293	1.4700	460	
465	490.3	0.0197	0.9266	0.9463	447.1	757.4	1204.5	0.6463	0.8190	1.4653	465	
470	514.7	0.0198	0.8811	0.9009	452.8	751.5	1204.3	0.6523	0.8083	1.4606	470	
475°	539.9	0.0199	0.8380	0.8579	458.6	745.4	1204.0	0.6584	0.7976	1.4560	475°	
480	566.1	0.0200	0.7972	0.8172	464.4	739.4	1203.7	0.6645	0.7868	1.4513	480	
485	593.3	0.0201	0.7586	0.7787	470.2	733.1	1203.3	0.6705	0.7761	1.4466	485	
490	621.4	0.0202	0.7221	0.7423	476.0	726.8	1202.8	0.6766	0.7653	1.4419	490	
495	650.6	0.0203	0.6874	0.7077	481.9	720.4	1202.3	0.6826	0.7546	1.4372	495	
500°	680.8	0.0204	0.6545	0.6749	487.8	713.9	1201.7	0.6887	0.7438	1.4325	500°	
505	712.0	0.0205	0.6233	0.6438	493.8	707.1	1200.9	0.6948	0.7331	1.4278	505	
510	744.3	0.0207	0.5935	0.6142	499.8	700.3	1200.1	0.7008	0.7223	1.4231	510	
515	777.8	0.0208	0.5653	0.5861	505.8	693.4	1199.2	0.7069	0.7115	1.4184	515	
520	812.4	0.0209	0.5385	0.5594	511.9	686.4	1198.2	0.7130	0.7006	1.4136	520	
525°	848.1	0.0210	0.5130	0.5340	518.0	679.1	1197.1	0.7191	0.6897	1.4088	525°	
530	885.0	0.0212	0.4886	0.5098	524.1	671.8	1195.9	0.7252	0.6788	1.4040	530	
535	923.2	0.0213	0.4655	0.4868	530.3	664.3	1194.6	0.7313	0.6679	1.3991	535	
540	962.5	0.0215	0.4434	0.4649	536.6	656.6	1193.2	0.7374	0.6568	1.3942	540	
545	1003.2	0.0216	0.4224	0.4440	542.9	648.8	1191.7	0.7435	0.6458	1.3893	545	
550°	1045.2	0.0218	0.4022	0.4240	549.3	640.8	1190.0	0.7497	0.6346	1.3843	550°	
555	1088.5	0.0219	0.3831	0.4050	555.7	632.6	1188.3	0.7559	0.6234	1.3793	555	
560	1133.1	0.0221	0.3647	0.3868	562.2	624.2	1186.4	0.7621	0.6121	1.3742	560	
565	1179.1	0.0222	0.3472	0.3694	568.8	615.5	1184.3	0.7683	0.6007	1.3690	565	
570	1226.5	0.0224	0.3304	0.3528	575.4	606.7	1182.1	0.7746	0.5893	1.3638	570	
575°	1275.4	0.0226	0.3143	0.3369	582.1	597.7	1179.8	0.7809	0.5777	1.3585	575°	
580	1325.8	0.0228	0.2989	0.3217	588.9	588.4	1177.3	0.7872	0.5659	1.3532	580	
585	1377.7	0.0230	0.2841	0.3071	595.8	578.8	1174.6	0.7936	0.5541	1.3477	585	
590	1431.2	0.0232	0.2700	0.2931	602.8	569.0	1171.8	0.8001	0.5421	1.3422	590	
595	1486.2	0.0234	0.2563	0.2797	609.8	558.9	1168.7	0.8066	0.5299	1.3365	595	
600°	1542.9	0.0236	0.2432	0.2668	617.0	548.5	1165.5	0.8131	0.5176	1.3307	600°	
605	1601.2	0.0239	0.2306	0.2545	624.3	537.7	1162.0	0.8197	0.5051	1.3248	605	
610	1661.2	0.0241	0.2185	0.2426	631.6	526.7	1158.4	0.8264	0.4924	1.3188	610	
615	1723.0	0.0244	0.2068	0.2312	639.1	515.3	1154.4	0.8331	0.4795	1.3126	615	
620	1786.6	0.0247	0.1955	0.2201	646.7	503.6	1150.3	0.8398	0.4664	1.3062	620	
625°	1852.0	0.0250	0.1845	0.2095	654.4	491.4	1145.8	0.8467	0.4530	1.2997	625°	
630	1919.3	0.0253	0.1740	0.1992	662.3	478.8	1141.1	0.8536	0.4394	1.2930	630	
635	1988.5	0.0256	0.1637	0.1893	670.4	465.6	1136.0	0.8607	0.4254	1.2861	635	
640	2059.7	0.0260	0.1538	0.1798	678.6	452.0	1130.5	0.8679	0.4110	1.2789	640	
645	2132.9	0.0264	0.1441	0.1705	687.0	437.7	1124.7	0.8752	0.3962	1.2715	645	
650°	2208.2	0.0268	0.1348	0.1616	695.7	422.8	1118.5	0.8828	0.3809	1.2637	650°	
655	2285.7	0.0273	0.1256	0.1523	704.8	406.9	1111.7	0.8906	0.3651	1.2557	655	
660	2365.4	0.0278	0.1165	0.1442	714.2	390.2	1104.4	0.8987	0.3485	1.2472	660	
665	2447.4	0.0283	0.1076	0.1359	724.1	372.4	1096.4	0.9071	0.3311	1.2382	665	
670	2531.8	0.0290	0.0987	0.1277	734.4	353.2	1087.7	0.9159	0.3127	1.2285	670	
675°	2618.7	0.0297	0.0899	0.1196	745.4	332.6	1078.0	0.9251	0.2931	1.2183	675°	
680	2708.1	0.0305	0.0810	0.1115	757.3	309.9	1067.2	0.9351	0.2719	1.2071	680	
685	2800.2	0.0315	0.0719	0.1034	770.1	284.7	1054.8	0.9459	0.2487	1.1946	685	
690	2895.1	0.0328	0.0625	0.0953	784.4	256.0	1040.4	0.9578	0.2227	1.1805	690	
695	2992.9	0.0344	0.0520	0.0864	801.2	220.7	1021.9	0.9719	0.1911	1.1630	695	
700°	3093.7	0.0369	0.0392	0.0761	823.3	172.1	995.4	0.9905	0.1484	1.1389	700°	
702	3134.9	0.0385	0.0325	0.0710	835.4	145.2	980.6	1.0006	0.1249	1.1256	702	
704	3176.7	0.0410	0.0234	0.0645	852.7	106.0	958.7	1.0152	0.0911	1.1063	704	
705	3197.7	0.0438	0.0152	0.0589	869.2	69.1	938.4	1.0293	0.0593	1.0886	705	
705.4	3206.2	0.0503	0	0.0503	902.7	0	902.7	1.0580	0	1.0580	705.4	

第二表 第和：壓力

絕對壓力 吋汞柱		比體積		比合熱量		比焓		比內能		絕對壓力 吋汞柱
p	溫度 華氏 t	飽和 液體 V_f	飽和 氣體 V_g	飽和 液體 h_f	飽和 氣體 h_g	飽和 液體 h_f	飽和 氣體 h_g	飽和 液體 u_f	飽和 氣體 u_g	p
0.25	40.23	0.01602	2423.7	8.28	1071.1	1079.4	0.0166	2.1423	2.1589	0.25
0.50	58.80	0.01604	1256.4	26.86	1060.6	1087.5	0.0532	2.0453	2.0985	0.50
0.75	70.43	0.01606	856.1	38.47	1054.0	1092.5	0.0754	1.9881	2.0635	0.75
1.00	79.03	0.01608	652.3	47.05	1049.2	1096.3	0.0914	1.9473	2.0387	1.00
1.5	91.72	0.01611	444.9	59.71	1042.0	1101.7	0.1147	1.8894	2.0041	1.5
2.0	101.14	0.01614	339.2	69.10	1036.6	1105.7	0.1316	1.8481	1.9797	2.0
2.5	108.71	0.01616	274.9	76.65	1032.3	1108.9	0.1449	1.8160	1.9609	2.5
3.0	115.06	0.01618	231.6	82.99	1028.6	1111.6	0.1560	1.7896	1.9456	3.0
4.0	125.43	0.01622	176.7	93.34	1022.7	1116.0	0.1738	1.7476	1.9214	4.0
5	133.76	0.01626	143.25	101.66	1017.7	1119.4	0.1879	1.7150	1.9028	5
6	140.78	0.01630	120.72	108.67	1013.6	1122.3	0.1996	1.6881	1.8877	6
7	146.86	0.01633	104.46	114.75	1010.0	1124.8	0.2097	1.6653	1.8750	7
8	152.24	0.01635	92.16	120.13	1006.9	1127.0	0.2185	1.6454	1.8640	8
9	157.09	0.01638	82.52	124.97	1004.0	1129.0	0.2264	1.6279	1.8543	9
10	161.49	0.01640	74.76	129.38	1001.4	1130.8	0.2335	1.6121	1.8456	10
11	165.54	0.01642	68.38	133.43	999.0	1132.4	0.2400	1.5978	1.8378	11
12	169.28	0.01644	63.03	137.18	996.7	1134.0	0.2460	1.5847	1.8307	12
13	172.78	0.01646	58.47	140.68	994.6	1135.3	0.2516	1.5725	1.8241	13
14	176.05	0.01648	54.55	143.96	992.6	1136.6	0.2568	1.5613	1.8181	14
15	179.14	0.01650	51.14	147.06	990.7	1137.8	0.2616	1.5508	1.8125	15
16	182.05	0.01652	48.14	149.98	988.9	1138.9	0.2662	1.5410	1.8072	16
17	184.82	0.01654	45.48	152.75	987.3	1140.0	0.2705	1.5318	1.8023	17
18	187.45	0.01655	43.11	155.39	985.7	1141.1	0.2746	1.5231	1.7977	18
19	189.96	0.01657	40.99	157.91	984.2	1142.1	0.2784	1.5148	1.7933	19
20	192.37	0.01658	39.07	160.33	982.7	1143.0	0.2822	1.5069	1.7891	20
21	194.68	0.01660	37.32	162.65	981.2	1143.9	0.2857	1.4994	1.7851	21
22	196.90	0.01661	35.73	164.87	979.8	1144.7	0.2891	1.4923	1.7814	22
23	199.03	0.01663	34.28	167.02	978.5	1145.5	0.2923	1.4855	1.7779	23
24	201.09	0.01664	32.94	169.09	977.2	1146.3	0.2955	1.4789	1.7744	24
25	203.08	0.01666	31.70	171.09	975.9	1147.0	0.2985	1.4726	1.7711	25
26	205.00	0.01667	30.56	173.02	974.6	1147.8	0.3014	1.4665	1.7679	26
27	206.87	0.01668	29.50	174.90	973.6	1148.5	0.3042	1.4607	1.7649	27
28	208.67	0.01669	28.52	176.72	972.5	1149.2	0.3069	1.4550	1.7619	28
29	210.43	0.01671	27.60	178.48	971.4	1149.9	0.3096	1.4495	1.7591	29
30	212.13	0.01672	26.74	180.19	970.3	1150.5	0.3122	1.4442	1.7564	30
0.20	53.14	0.01603	1526.0	21.21	1063.8	1085.0	0.0422	2.0741	2.1163	0.20
0.25	59.30	0.01604	1235.3	27.36	1060.3	1087.7	0.0542	2.0428	2.0970	0.25
0.30	64.47	0.01605	1039.5	32.52	1057.4	1090.0	0.0641	2.0171	2.0812	0.30
0.35	68.93	0.01605	898.5	36.97	1054.9	1091.9	0.0725	1.9953	2.0678	0.35
0.40	72.86	0.01606	791.9	40.89	1052.7	1093.6	0.0799	1.9764	2.0563	0.40
0.45	76.38	0.01607	708.5	44.41	1050.7	1095.1	0.0865	1.9597	2.0462	0.45
0.50	79.58	0.01608	641.4	47.60	1048.8	1096.4	0.0924	1.9448	2.0372	0.50
0.60	85.21	0.01609	540.0	53.21	1045.7	1098.9	0.1028	1.9188	2.0216	0.60
0.70	90.08	0.01610	466.9	58.07	1042.9	1101.0	0.1117	1.8968	2.0085	0.70
0.80	94.38	0.01612	411.7	62.36	1040.4	1102.8	0.1194	1.8777	1.9971	0.80
0.90	98.24	0.01613	368.4	66.21	1038.3	1104.5	0.1263	1.8608	1.9871	0.90
1.0	101.74	0.01614	333.6	69.70	1036.3	1106.0	0.1326	1.8456	1.9782	1.0
1.2	107.92	0.01616	280.9	75.87	1032.7	1108.6	0.1435	1.8193	1.9628	1.2
1.4	113.26	0.01618	243.0	81.20	1029.6	1110.8	0.1528	1.7971	1.9498	1.4
1.6	117.99	0.01620	214.3	85.91	1026.9	1112.8	0.1610	1.7776	1.9386	1.6
1.8	122.23	0.01621	191.8	90.14	1024.5	1114.6	0.1683	1.7605	1.9288	1.8
2.0	126.08	0.01623	173.73	93.99	1022.2	1116.2	0.1749	1.7451	1.9200	2.0
2.2	129.62	0.01624	158.85	97.52	1020.2	1117.7	0.1809	1.7311	1.9120	2.2
2.4	132.89	0.01626	146.38	100.79	1018.3	1119.1	0.1864	1.7183	1.9047	2.4
2.6	135.94	0.01627	135.78	103.83	1016.5	1120.3	0.1916	1.7065	1.8981	2.6
2.8	138.79	0.01629	126.65	106.68	1014.8	1121.5	0.1963	1.6957	1.8920	2.8

第二表 飽和・壓力

絕對壓力 磅 平方吋 P	溫度 華氏 t	比體積		比合熱量			比焓			比內能			絕對壓力 磅 平方吋 P
		飽和 液體 V _l	飽和 氣體 V _g	飽和 液體 h _l	汽化 r	飽和 氣體 h _g	飽和 液體 φ _l	汽化 φ _r	飽和 氣體 φ _g	飽和 液體 i _l	汽化 p	飽和 氣體 i _g	
3.0	141.48	0.01630	118.71	109.37	1013.2	1122.6	0.2008	1.6855	1.8863	109.36	947.3	1056.7	3.0
3.5	147.57	0.01633	102.72	115.46	1009.6	1125.1	0.2109	1.6626	1.8735	115.45	943.1	1058.6	3.5
4.0	152.97	0.01636	90.63	120.86	1006.4	1127.3	0.2198	1.6427	1.8625	120.85	939.3	1060.2	4.0
4.5	157.83	0.01638	81.16	125.71	1003.6	1129.3	0.2276	1.6252	1.8528	125.70	936.0	1061.7	4.5
5.0	162.24	0.01640	73.52	130.13	1001.0	1131.1	0.2347	1.6094	1.8441	130.12	933.0	1063.1	5.0
5.5	166.30	0.01643	67.24	134.19	998.5	1132.7	0.2411	1.5951	1.8363	134.17	930.1	1064.3	5.5
6.0	170.06	0.01645	61.98	137.96	996.2	1134.2	0.2472	1.5820	1.8292	137.94	927.5	1065.4	6.0
6.5	173.56	0.01647	57.50	141.47	994.1	1135.6	0.2528	1.5699	1.8227	141.45	925.0	1066.4	6.5
7.0	176.85	0.01649	53.64	144.76	992.1	1136.9	0.2581	1.5586	1.8167	144.74	922.7	1067.4	7.0
7.5	179.94	0.01651	50.29	147.86	990.2	1138.1	0.2629	1.5481	1.8110	147.84	920.5	1068.3	7.5
8.0	182.86	0.01653	47.34	150.79	988.5	1139.3	0.2674	1.5383	1.8057	150.77	918.4	1069.2	8.0
8.5	185.64	0.01654	44.73	153.57	986.8	1140.4	0.2718	1.5290	1.8008	153.54	916.5	1070.0	8.5
9.0	188.28	0.01656	42.40	156.22	985.2	1141.4	0.2759	1.5203	1.7962	156.19	914.6	1070.8	9.0
9.5	190.80	0.01658	40.31	158.75	983.6	1142.3	0.2798	1.5120	1.7918	158.72	912.8	1071.5	9.5
10	193.21	0.01659	38.42	161.17	982.1	1143.3	0.2835	1.5041	1.7876	161.14	911.1	1072.2	10
11	197.75	0.01662	35.14	165.73	979.3	1145.0	0.2903	1.4897	1.7800	165.70	907.8	1073.5	11
12	201.96	0.01665	32.40	169.96	976.6	1146.6	0.2967	1.4763	1.7730	169.92	904.8	1074.7	12
13	205.88	0.01667	30.06	173.91	974.2	1148.1	0.3027	1.4638	1.7665	173.87	901.9	1075.8	13
14	209.56	0.01670	28.04	177.61	971.9	1149.5	0.3083	1.4522	1.7605	177.57	899.3	1076.9	14
14.696	212.00	0.01672	26.80	180.07	970.3	1150.4	0.3120	1.4446	1.7566	180.02	897.5	1077.5	14.696
15	213.03	0.01672	26.29	181.11	969.7	1150.8	0.3135	1.4415	1.7549	181.06	896.7	1077.8	15
16	216.32	0.01674	24.75	184.42	967.6	1152.0	0.3184	1.4313	1.7497	184.37	894.3	1078.7	16
17	219.44	0.01677	23.39	187.56	965.5	1153.1	0.3231	1.4218	1.7449	187.51	892.0	1079.5	17
18	222.41	0.01679	22.17	190.56	963.6	1154.2	0.3275	1.4128	1.7403	190.50	889.9	1080.4	18
19	225.24	0.01681	21.08	193.42	961.9	1155.3	0.3317	1.4043	1.7360	193.36	887.8	1081.2	19
20	227.96	0.01683	20.089	196.16	960.1	1156.3	0.3356	1.3962	1.7319	196.10	885.8	1081.9	20
21	230.57	0.01685	19.192	198.79	958.4	1157.2	0.3395	1.3885	1.7280	198.73	883.9	1082.6	21
22	233.07	0.01687	18.375	201.33	956.8	1158.1	0.3431	1.3811	1.7242	201.26	882.0	1083.3	22
23	235.49	0.01689	17.627	203.78	955.2	1159.0	0.3466	1.3740	1.7206	203.71	880.2	1083.9	23
24	237.82	0.01691	16.938	206.14	953.7	1159.8	0.3500	1.3672	1.7172	206.07	878.5	1084.6	24
25	240.07	0.01692	16.303	208.42	952.1	1160.6	0.3533	1.3606	1.7139	208.34	876.8	1085.1	25
26	242.25	0.01694	15.715	210.62	950.7	1161.3	0.3564	1.3544	1.7108	210.54	875.2	1085.7	26
27	244.36	0.01696	15.170	212.75	949.3	1162.0	0.3594	1.3484	1.7078	212.67	873.6	1086.3	27
28	246.41	0.01698	14.663	214.83	947.9	1162.7	0.3623	1.3425	1.7048	214.74	872.1	1086.8	28
29	248.40	0.01699	14.189	216.86	946.5	1163.4	0.3652	1.3368	1.7020	216.77	870.5	1087.3	29
30	250.33	0.01701	13.746	218.82	945.3	1164.1	0.3680	1.3313	1.6993	218.73	869.1	1087.8	30
31	252.22	0.01702	13.330	220.73	944.0	1164.7	0.3707	1.3260	1.6967	220.63	867.7	1088.3	31
32	254.05	0.01704	12.940	222.59	942.8	1165.4	0.3733	1.3209	1.6941	222.49	866.3	1088.7	32
33	255.84	0.01705	12.572	224.41	941.6	1166.0	0.3758	1.3159	1.6917	224.31	864.9	1089.2	33
34	257.58	0.01707	12.226	226.18	940.3	1166.5	0.3783	1.3110	1.6893	226.07	863.5	1089.6	34
35	259.28	0.01708	11.898	227.91	939.2	1167.1	0.3807	1.3063	1.6870	227.80	862.3	1090.1	35
36	260.95	0.01709	11.588	229.60	938.0	1167.6	0.3831	1.3017	1.6848	229.49	861.0	1090.5	36
37	262.57	0.01711	11.294	231.26	936.9	1168.2	0.3854	1.2972	1.6826	231.14	859.8	1090.9	37
38	264.16	0.01712	11.015	232.89	935.8	1168.7	0.3876	1.2929	1.6805	232.77	858.5	1091.3	38
39	265.72	0.01714	10.750	234.48	934.7	1169.2	0.3898	1.2886	1.6784	234.36	857.2	1091.6	39
40	267.25	0.01715	10.498	236.03	933.7	1169.7	0.3919	1.2844	1.6763	235.90	856.1	1092.0	40
41	268.74	0.01716	10.258	237.55	932.6	1170.2	0.3940	1.2803	1.6743	237.42	855.0	1092.4	41
42	270.21	0.01717	10.029	239.04	931.6	1170.7	0.3960	1.2764	1.6724	238.91	853.8	1092.7	42
43	271.64	0.01719	9.810	240.51	930.6	1171.1	0.3980	1.2726	1.6706	240.37	852.7	1093.1	43
44	273.05	0.01720	9.601	241.95	929.6	1171.6	0.4000	1.2687	1.6687	241.81	851.6	1093.4	44
45	274.44	0.01721	9.401	243.36	928.6	1172.0	0.4019	1.2650	1.6669	243.22	850.5	1093.7	45
46	275.80	0.01722	9.209	244.75	927.7	1172.4	0.4038	1.2613	1.6652	244.60	849.5	1094.1	46
47	277.13	0.01723	9.025	246.12	926.7	1172.9	0.4057	1.2577	1.6634	245.97	848.4	1094.4	47
48	278.45	0.01725	8.848	247.47	925.8	1173.3	0.4075	1.2542	1.6617	247.32	847.4	1094.7	48
49	279.74	0.01726	8.678	248.79	924.9	1173.7	0.4093	1.2508	1.6601	248.63	846.4	1095.0	49

第二表 飽和：壓力

絕對壓力 磅 平方吋	溫度 華氏 °F	比體積		比熱		比容		比內能		絕對壓力 磅 平方吋			
		飽和 液體 V_f	飽和 蒸汽 V_g	飽和 液體 h_f	飽和 蒸汽 h_g	飽和 液體 ϕ_f	飽和 蒸汽 ϕ_g	飽和 液體 u_f	飽和 蒸汽 u_g				
50	281.01	0.01727	8.515	250.09	924.0	1174.1	0.4110	1.2474	1.6585	249.93	845.4	1095.3	50
51	282.26	0.01728	8.359	251.37	923.0	1174.4	0.4127	1.2442	1.6569	251.21	844.3	1095.5	51
52	283.49	0.01729	8.208	252.63	922.2	1174.8	0.4144	1.2409	1.6553	252.46	843.3	1095.8	52
53	284.70	0.01730	8.062	253.87	921.3	1175.2	0.4161	1.2377	1.6538	253.70	842.4	1096.1	53
54	285.90	0.01731	7.922	255.09	920.5	1175.6	0.4177	1.2346	1.6523	254.92	841.5	1096.4	54
55	287.07	0.01732	7.787	256.30	919.6	1175.9	0.4193	1.2316	1.6509	256.12	840.6	1096.7	55
56	288.23	0.01733	7.656	257.50	918.8	1176.3	0.4209	1.2285	1.6494	257.32	839.7	1097.0	56
57	289.37	0.01734	7.529	258.67	917.9	1176.6	0.4225	1.2255	1.6480	258.49	838.7	1097.2	57
58	290.50	0.01736	7.407	259.82	917.1	1176.9	0.4240	1.2226	1.6466	259.63	837.8	1097.4	58
59	291.61	0.01737	7.289	260.96	916.3	1177.3	0.4255	1.2197	1.6452	260.77	836.9	1097.7	59
60	292.71	0.01738	7.175	262.09	915.5	1177.6	0.4270	1.2168	1.6438	261.90	836.0	1097.9	60
61	293.79	0.01739	7.064	263.20	914.7	1177.9	0.4285	1.2140	1.6425	263.00	835.2	1098.2	61
62	294.85	0.01740	6.957	264.30	913.9	1178.2	0.4300	1.2112	1.6412	264.10	834.3	1098.4	62
63	295.90	0.01741	6.853	265.38	913.1	1178.5	0.4314	1.2085	1.6399	265.18	833.4	1098.6	63
64	296.94	0.01742	6.752	266.45	912.3	1178.8	0.4328	1.2059	1.6387	266.24	832.6	1098.8	64
65	297.97	0.01743	6.655	267.50	911.6	1179.1	0.4342	1.2032	1.6374	267.29	831.8	1099.1	65
66	298.99	0.01744	6.560	268.55	910.8	1179.4	0.4356	1.2006	1.6362	268.34	831.0	1099.3	66
67	299.99	0.01745	6.468	269.58	910.1	1179.7	0.4369	1.1981	1.6350	269.36	830.2	1099.5	67
68	300.98	0.01746	6.378	270.60	909.4	1180.0	0.4383	1.1955	1.6338	270.38	829.4	1099.8	68
69	301.96	0.01747	6.291	271.61	908.7	1180.3	0.4396	1.1930	1.6326	271.39	828.6	1100.0	69
70	302.92	0.01748	6.206	272.61	907.9	1180.6	0.4409	1.1906	1.6315	272.38	827.8	1100.2	70
71	303.88	0.01749	6.124	273.60	907.2	1180.8	0.4422	1.1881	1.6303	273.37	827.0	1100.4	71
72	304.83	0.01750	6.044	274.57	906.5	1181.1	0.4435	1.1857	1.6292	274.34	826.3	1100.6	72
73	305.76	0.01751	5.966	275.54	905.8	1181.3	0.4447	1.1834	1.6281	275.30	825.5	1100.8	73
74	306.68	0.01752	5.890	276.49	905.1	1181.6	0.4460	1.1810	1.6270	276.25	824.7	1101.0	74
75	307.60	0.01753	5.816	277.43	904.5	1181.9	0.4472	1.1787	1.6259	277.19	824.0	1101.2	75
76	308.50	0.01754	5.743	278.37	903.7	1182.1	0.4484	1.1764	1.6248	278.12	823.3	1101.4	76
77	309.40	0.01754	5.673	279.30	903.1	1182.4	0.4496	1.1742	1.6238	279.05	822.5	1101.6	77
78	310.29	0.01755	5.604	280.21	902.4	1182.6	0.4508	1.1720	1.6228	279.96	821.7	1101.7	78
79	311.16	0.01756	5.537	281.12	901.7	1182.8	0.4520	1.1698	1.6217	280.86	821.0	1101.9	79
80	312.03	0.01757	5.472	282.02	901.1	1183.1	0.4531	1.1676	1.6207	281.76	820.3	1102.1	80
81	312.89	0.01758	5.408	282.91	900.4	1183.3	0.4543	1.1654	1.6197	282.65	819.6	1102.2	81
82	313.74	0.01759	5.346	283.79	899.7	1183.5	0.4554	1.1633	1.6187	283.52	818.9	1102.4	82
83	314.59	0.01760	5.285	284.66	899.1	1183.8	0.4565	1.1612	1.6177	284.39	818.2	1102.6	83
84	315.42	0.01761	5.226	285.53	898.5	1184.0	0.4576	1.1592	1.6168	285.26	817.5	1102.8	84
85	316.25	0.01761	5.168	286.39	897.8	1184.2	0.4587	1.1571	1.6158	286.11	816.8	1102.9	85
86	317.07	0.01762	5.111	287.24	897.2	1184.4	0.4598	1.1551	1.6149	286.96	816.1	1103.1	86
87	317.88	0.01763	5.055	288.08	896.5	1184.6	0.4609	1.1530	1.6139	287.80	815.4	1103.2	87
88	318.68	0.01764	5.001	288.91	895.9	1184.8	0.4620	1.1510	1.6130	288.63	814.8	1103.4	88
89	319.48	0.01765	4.948	289.74	895.3	1185.1	0.4630	1.1491	1.6121	289.45	814.1	1103.6	89
90	320.27	0.01766	4.896	290.56	894.7	1185.3	0.4641	1.1471	1.6112	290.27	813.4	1103.7	90
91	321.06	0.01767	4.845	291.38	894.1	1185.5	0.4651	1.1452	1.6103	291.08	812.8	1103.9	91
92	321.83	0.01768	4.796	292.18	893.5	1185.7	0.4661	1.1433	1.6094	291.88	812.2	1104.1	92
93	322.60	0.01768	4.747	292.98	892.9	1185.9	0.4672	1.1413	1.6085	292.68	811.5	1104.2	93
94	323.36	0.01769	4.699	293.78	892.3	1186.1	0.4682	1.1394	1.6076	293.47	810.9	1104.4	94
95	324.12	0.01770	4.652	294.56	891.7	1186.2	0.4692	1.1376	1.6068	294.25	810.2	1104.5	95
96	324.87	0.01771	4.606	295.34	891.1	1186.4	0.4702	1.1358	1.6060	295.03	809.6	1104.6	96
97	325.61	0.01772	4.561	296.12	890.5	1186.6	0.4711	1.1340	1.6051	295.80	809.0	1104.7	97
98	326.35	0.01772	4.517	296.89	889.9	1186.8	0.4721	1.1322	1.6043	296.57	808.3	1104.9	98
99	327.08	0.01773	4.474	297.65	889.4	1187.0	0.4731	1.1304	1.6035	297.33	807.7	1105.0	99
100	327.81	0.01774	4.432	298.40	888.8	1187.2	0.4740	1.1286	1.6026	298.08	807.1	1105.2	100
101	328.53	0.01775	4.391	299.15	888.2	1187.4	0.4750	1.1268	1.6018	298.82	806.5	1105.3	101
102	329.25	0.01775	4.350	299.90	887.6	1187.5	0.4759	1.1251	1.6010	299.57	805.9	1105.4	102
103	329.96	0.01776	4.310	300.64	887.1	1187.7	0.4768	1.1234	1.6002	300.30	805.3	1105.6	103
104	330.66	0.01777	4.271	301.37	886.5	1187.9	0.4778	1.1216	1.5994	301.03	804.7	1105.7	104

第二表 飽和：壓力

絕對壓力 磅 平方吋 p	溫度 華氏 t	比體積		比焓熱量			比熵		比內能			絕對壓力 磅 平方吋 p	
		飽和 液體 V_f	飽和 氣體 V_g	飽和 液體 h_f	汽化 r	飽和 氣體 h_g	飽和 液體 ϕ_f	汽化 ϕ_g	飽和 液體 u_f	汽化 u	飽和 氣體 u_g		
105	331.36	0.01778	4.232	302.10	886.0	1188.1	0.4787	1.1199	1.5986	301.75	804.1	1105.9	105
106	332.05	0.01778	4.194	302.82	885.4	1188.2	0.4796	1.1182	1.5978	302.47	803.5	1106.0	106
107	332.74	0.01779	4.157	303.54	884.9	1188.4	0.4805	1.1166	1.5971	303.19	802.9	1106.1	107
108	333.42	0.01780	4.120	304.26	884.3	1188.6	0.4814	1.1149	1.5963	303.90	802.4	1106.3	108
109	334.10	0.01781	4.084	304.97	883.7	1188.7	0.4823	1.1133	1.5956	304.61	801.8	1106.4	109
110	334.77	0.01782	4.049	305.66	883.2	1188.9	0.4832	1.1117	1.5948	305.30	801.2	1106.5	110
111	335.44	0.01783	4.015	306.37	882.6	1189.0	0.4840	1.1101	1.5941	306.00	800.6	1106.6	111
112	336.11	0.01783	3.981	307.06	882.1	1189.2	0.4849	1.1085	1.5934	306.69	800.0	1106.7	112
113	336.77	0.01784	3.947	307.75	881.6	1189.4	0.4858	1.1069	1.5927	307.38	799.4	1106.8	113
114	337.42	0.01784	3.914	308.43	881.1	1189.5	0.4866	1.1053	1.5919	308.05	798.9	1106.9	114
115	338.07	0.01785	3.882	309.11	880.6	1189.7	0.4875	1.1037	1.5912	308.73	798.4	1107.1	115
116	338.72	0.01786	3.850	309.79	880.0	1189.8	0.4883	1.1022	1.5905	309.41	797.8	1107.2	116
117	339.36	0.01787	3.819	310.46	879.5	1190.0	0.4891	1.1007	1.5898	310.07	797.2	1107.3	117
118	339.99	0.01787	3.788	311.12	879.0	1190.1	0.4900	1.0992	1.5891	310.73	796.7	1107.4	118
119	340.62	0.01788	3.758	311.78	878.4	1190.2	0.4908	1.0977	1.5885	311.39	796.1	1107.5	119
120	341.25	0.01789	3.728	312.44	877.9	1190.4	0.4916	1.0962	1.5878	312.05	795.6	1107.6	120
121	341.88	0.01790	3.699	313.10	877.4	1190.5	0.4924	1.0947	1.5871	312.70	795.0	1107.7	121
122	342.50	0.01791	3.670	313.75	876.9	1190.7	0.4932	1.0933	1.5865	313.35	794.5	1107.8	122
123	343.11	0.01791	3.642	314.40	876.4	1190.8	0.4940	1.0918	1.5858	313.99	793.9	1107.9	123
124	343.72	0.01792	3.614	315.04	875.9	1190.9	0.4948	1.0903	1.5851	314.63	793.4	1108.0	124
125	344.33	0.01792	3.587	315.68	875.4	1191.1	0.4956	1.0888	1.5844	315.26	792.8	1108.1	125
126	344.94	0.01793	3.560	316.31	874.9	1191.2	0.4964	1.0874	1.5838	315.89	792.3	1108.2	126
127	345.54	0.01794	3.533	316.94	874.4	1191.3	0.4972	1.0859	1.5831	316.52	791.8	1108.3	127
128	346.13	0.01794	3.507	317.57	873.9	1191.5	0.4980	1.0845	1.5825	317.15	791.3	1108.4	128
129	346.73	0.01795	3.481	318.19	873.4	1191.6	0.4987	1.0832	1.5819	317.77	790.7	1108.5	129
130	347.32	0.01796	3.455	318.81	872.9	1191.7	0.4995	1.0817	1.5812	318.38	790.2	1108.6	130
131	347.90	0.01797	3.430	319.43	872.5	1191.9	0.5002	1.0804	1.5806	318.99	789.7	1108.7	131
132	348.48	0.01797	3.406	320.04	872.0	1192.0	0.5010	1.0790	1.5800	319.60	789.2	1108.8	132
133	349.06	0.01798	3.381	320.65	871.5	1192.1	0.5018	1.0776	1.5793	320.21	788.7	1108.9	133
134	349.64	0.01799	3.357	321.25	871.0	1192.2	0.5025	1.0762	1.5787	320.80	788.2	1109.0	134
135	350.21	0.01800	3.333	321.85	870.6	1192.4	0.5032	1.0749	1.5781	321.40	787.7	1109.1	135
136	350.78	0.01800	3.310	322.45	870.1	1192.5	0.5040	1.0735	1.5775	322.00	787.2	1109.2	136
137	351.35	0.01801	3.287	323.05	869.6	1192.6	0.5047	1.0722	1.5769	322.59	786.7	1109.3	137
138	351.91	0.01801	3.264	323.64	869.1	1192.7	0.5054	1.0709	1.5763	323.18	786.2	1109.4	138
139	352.47	0.01802	3.242	324.23	868.7	1192.9	0.5061	1.0696	1.5757	323.77	785.7	1109.5	139
140	353.02	0.01802	3.220	324.82	868.2	1193.0	0.5069	1.0682	1.5751	324.35	785.2	1109.6	140
141	353.57	0.01803	3.198	325.40	867.7	1193.1	0.5076	1.0669	1.5745	324.93	784.8	1109.7	141
142	354.12	0.01804	3.177	325.98	867.2	1193.2	0.5083	1.0657	1.5740	325.51	784.3	1109.8	142
143	354.67	0.01804	3.155	326.56	866.7	1193.3	0.5090	1.0644	1.5734	326.08	783.8	1109.8	143
144	355.21	0.01805	3.134	327.13	866.3	1193.4	0.5097	1.0631	1.5728	326.65	783.3	1109.9	144
145	355.76	0.01806	3.114	327.70	865.8	1193.5	0.5104	1.0618	1.5722	327.22	782.8	1110.0	145
146	356.29	0.01806	3.094	328.27	865.3	1193.6	0.5111	1.0605	1.5716	327.78	782.3	1110.1	146
147	356.83	0.01807	3.074	328.83	864.9	1193.8	0.5118	1.0592	1.5710	328.34	781.9	1110.2	147
148	357.36	0.01808	3.054	329.39	864.5	1193.9	0.5124	1.0580	1.5705	328.90	781.4	1110.3	148
149	357.89	0.01808	3.034	329.95	864.0	1194.0	0.5131	1.0568	1.5699	329.45	780.9	1110.4	149
150	358.42	0.01809	3.015	330.51	863.6	1194.1	0.5138	1.0556	1.5694	330.01	780.5	1110.5	150
151	358.94	0.01810	2.997	331.07	863.2	1194.3	0.5151	1.0532	1.5683	331.10	779.5	1110.6	151
152	359.46	0.01812	2.980	332.70	861.8	1194.5	0.5165	1.0507	1.5672	332.18	778.5	1110.7	152
153	360.00	0.01813	2.964	333.79	860.9	1194.7	0.5178	1.0483	1.5661	333.26	777.6	1110.9	153
154	360.53	0.01814	2.949	334.86	860.0	1194.9	0.5191	1.0459	1.5650	334.23	776.8	1111.0	154
155	361.07	0.01815	2.934	335.93	859.2	1195.1	0.5204	1.0436	1.5640	335.39	775.8	1111.2	155
156	361.61	0.01817	2.919	336.98	858.3	1195.3	0.5216	1.0414	1.5630	336.44	775.0	1111.4	156
157	362.15	0.01818	2.904	338.02	857.5	1195.5	0.5229	1.0391	1.5620	337.47	774.1	1111.5	157
158	362.69	0.01819	2.889	339.05	856.6	1195.7	0.5241	1.0369	1.5610	338.49	773.2	1111.7	158
159	363.23	0.01820	2.874	340.07	855.7	1195.8	0.5254	1.0346	1.5600	339.51	772.3	1111.8	159

第二表 飽和：壓力

絕對壓力		比體積		比合熱量			比熵			比內能			絕對壓力
平方吋	華氏	飽和 液體	飽和 蒸氣	飽和 液體	汽化	飽和 蒸氣	飽和 液體	汽化	飽和 蒸氣	飽和 液體	汽化	飽和 蒸氣	平方吋
p	t	V_f	V_g	h_f	r	h_g	ϕ_f	ϕ_g	ϕ_g	u_f	u_g	u_g	p
170	368.41	0.01822	2.675	341.09	854.9	1196.0	0.5266	1.0324	1.5590	340.52	771.4	1111.9	170
172	369.35	0.01823	2.645	342.10	854.1	1196.2	0.5278	1.0302	1.5580	341.52	770.5	1112.0	172
174	370.29	0.01824	2.616	343.10	853.3	1196.4	0.5290	1.0280	1.5570	342.51	769.7	1112.2	174
176	371.22	0.01825	2.587	344.09	852.4	1196.5	0.5302	1.0259	1.5561	343.50	768.8	1112.3	176
178	372.14	0.01826	2.559	345.06	851.6	1196.7	0.5313	1.0238	1.5551	344.46	767.9	1112.4	178
180	373.06	0.01827	2.532	346.03	850.8	1196.9	0.5325	1.0217	1.5542	345.42	767.1	1112.5	180
182	373.96	0.01829	2.505	347.00	850.0	1197.0	0.5336	1.0196	1.5532	346.38	766.2	1112.6	182
184	374.86	0.01830	2.479	347.96	849.2	1197.2	0.5348	1.0175	1.5523	347.34	765.4	1112.8	184
186	375.75	0.01831	2.454	348.92	848.4	1197.3	0.5359	1.0155	1.5514	348.29	764.6	1112.9	186
188	376.64	0.01832	2.429	349.86	847.6	1197.5	0.5370	1.0136	1.5506	349.22	763.8	1113.0	188
190	377.51	0.01833	2.404	350.79	846.8	1197.6	0.5381	1.0116	1.5497	350.15	763.0	1113.1	190
192	378.38	0.01834	2.380	351.72	846.1	1197.8	0.5392	1.0096	1.5488	351.07	762.1	1113.2	192
194	379.24	0.01835	2.356	352.64	845.3	1197.9	0.5403	1.0076	1.5479	351.98	761.3	1113.3	194
196	380.10	0.01836	2.333	353.55	844.5	1198.1	0.5414	1.0056	1.5470	352.89	760.6	1113.5	196
198	380.95	0.01838	2.310	354.46	843.7	1198.2	0.5425	1.0037	1.5462	353.79	759.8	1113.6	198
200	381.79	0.01839	2.288	355.36	843.0	1198.4	0.5435	1.0018	1.5453	354.68	759.0	1113.7	200
205	383.86	0.01842	2.234	357.58	841.1	1198.7	0.5461	0.9971	1.5432	356.88	757.1	1114.0	205
210	385.90	0.01844	2.183	359.77	839.2	1199.0	0.5487	0.9925	1.5412	359.05	755.2	1114.2	210
215	387.89	0.01847	2.134	361.91	837.4	1199.3	0.5512	0.9880	1.5392	361.18	753.2	1114.4	215
220	389.86	0.01850	2.087	364.02	835.6	1199.6	0.5537	0.9835	1.5372	363.27	751.3	1114.6	220
225	391.79	0.01852	2.042	366.09	833.8	1199.9	0.5561	0.9792	1.5353	365.32	749.5	1114.8	225
230	393.68	0.01854	1.999	368.13	832.0	1200.1	0.5585	0.9750	1.5334	367.34	747.7	1115.0	230
235	395.54	0.01857	1.957	370.14	830.3	1200.4	0.5608	0.9708	1.5316	369.33	745.9	1115.3	235
240	397.37	0.01860	1.918	372.12	828.5	1200.6	0.5631	0.9667	1.5298	371.29	744.1	1115.4	240
245	399.18	0.01863	1.880	374.08	826.8	1200.9	0.5653	0.9627	1.5280	373.23	742.4	1115.6	245
250	400.95	0.01865	1.843	376.00	825.1	1201.1	0.5675	0.9588	1.5263	375.14	740.7	1115.8	250
255	402.70	0.01868	1.806	377.89	823.4	1201.3	0.5697	0.9549	1.5246	377.01	739.0	1116.0	255
260	404.42	0.01870	1.774	379.76	821.8	1201.5	0.5719	0.9510	1.5229	378.86	737.3	1116.2	260
265	406.11	0.01873	1.742	381.60	820.1	1201.7	0.5740	0.9472	1.5212	380.68	735.6	1116.3	265
270	407.78	0.01875	1.710	383.42	818.5	1201.9	0.5760	0.9436	1.5196	382.48	733.9	1116.4	270
275	409.43	0.01878	1.680	385.21	816.9	1202.1	0.5781	0.9399	1.5180	384.26	732.3	1116.6	275
280	411.05	0.01880	1.651	386.98	815.3	1202.3	0.5801	0.9363	1.5164	386.01	730.7	1116.7	280
285	412.65	0.01883	1.622	388.73	813.7	1202.4	0.5821	0.9327	1.5149	387.74	729.1	1116.8	285
290	414.23	0.01885	1.594	390.46	812.1	1202.6	0.5841	0.9292	1.5133	389.45	727.5	1116.9	290
295	415.79	0.01887	1.569	392.16	810.5	1202.7	0.5860	0.9258	1.5118	391.13	725.9	1117.0	295
300	417.33	0.01890	1.543	393.84	809.0	1202.8	0.5879	0.9225	1.5104	392.79	724.3	1117.1	300
310	420.35	0.01894	1.494	397.15	806.0	1203.1	0.5916	0.9159	1.5075	396.06	721.3	1117.4	310
320	423.29	0.01899	1.445	400.39	803.0	1203.4	0.5952	0.9094	1.5046	399.26	718.3	1117.6	320
330	426.16	0.01904	1.405	403.56	800.0	1203.6	0.5988	0.9031	1.5019	402.40	715.4	1117.8	330
340	428.97	0.01908	1.365	406.66	797.1	1203.7	0.6022	0.8970	1.4992	405.46	712.4	1117.9	340
350	431.72	0.01913	1.326	409.69	794.2	1203.9	0.6056	0.8910	1.4966	408.45	709.6	1118.0	350
360	434.40	0.01917	1.289	412.67	791.4	1204.1	0.6090	0.8851	1.4941	411.39	706.8	1118.2	360
370	437.03	0.01921	1.255	415.59	788.6	1204.2	0.6122	0.8794	1.4916	414.27	704.0	1118.3	370
380	439.60	0.01925	1.222	418.45	785.8	1204.3	0.6153	0.8738	1.4891	417.10	701.3	1118.4	380
390	442.12	0.01930	1.191	421.27	783.1	1204.4	0.6184	0.8683	1.4867	419.88	698.6	1118.5	390
400	444.59	0.0193	1.161	424.0	780.5	1204.5	0.6214	0.8630	1.4844	422.6	695.9	1118.5	400
410	447.01	0.0194	1.133	426.8	777.7	1204.5	0.6243	0.8578	1.4821	425.3	693.3	1118.6	410
420	449.39	0.0194	1.106	429.4	775.2	1204.6	0.6272	0.8527	1.4799	427.9	690.8	1118.7	420
430	451.73	0.0194	1.080	432.1	772.5	1204.6	0.6301	0.8476	1.4777	430.5	688.2	1118.7	430
440	454.02	0.0195	1.056	434.6	770.0	1204.6	0.6329	0.8426	1.4755	433.0	685.7	1118.7	440
450	456.28	0.0195	1.032	437.2	767.4	1204.6	0.6356	0.8377	1.4734	435.5	683.2	1118.7	450
460	458.50	0.0196	1.009	439.7	764.9	1204.6	0.6383	0.8330	1.4713	438.0	680.7	1118.7	460
470	460.68	0.0196	0.987	442.2	762.4	1204.6	0.6410	0.8283	1.4693	440.5	678.2	1118.7	470
480	462.82	0.0197	0.967	444.6	759.9	1204.5	0.6436	0.8237	1.4673	442.9	675.7	1118.6	480
490	464.93	0.0197	0.947	447.0	757.5	1204.5	0.6462	0.8191	1.4653	445.2	673.4	1118.6	490

第二表 飽和：壓力

絕對壓力 磅 平方吋 p	溫度 華氏 t	比體積			比合熱量			比焓			比內能		絕對壓力 磅 平方吋 p
		飽和 液體 V_f	飽和 蒸汽 v_g	飽和 蒸汽 V_g	飽和 液體 h_f	飽和 蒸汽 h_g	飽和 蒸汽 h_{fg}	飽和 液體 ϕ_f	飽和 蒸汽 ϕ_g	飽和 蒸汽 ϕ_{fg}	飽和 液體 i_f	飽和 蒸汽 i_g	
500	467.01	0.0197	0.9081	0.9278	449.4	755.0	1204.4	0.6487	0.8147	1.4634	447.6	1118.6	500
520	471.07	0.0198	0.8717	0.8915	454.1	750.1	1204.2	0.6536	0.8060	1.4596	452.2	1118.4	520
540	475.01	0.0199	0.8379	0.8578	458.6	745.4	1204.0	0.6584	0.7976	1.4560	456.6	1118.3	540
560	478.85	0.0200	0.8065	0.8265	463.0	740.8	1203.8	0.6631	0.7893	1.4524	460.9	1118.2	560
580	482.58	0.0201	0.7772	0.7973	467.4	736.1	1203.5	0.6676	0.7813	1.4489	465.2	1118.0	580
600	486.21	0.0201	0.7497	0.7698	471.6	731.6	1203.2	0.6720	0.7734	1.4454	469.4	1117.7	600
620	489.75	0.0202	0.7238	0.7440	475.7	727.2	1202.9	0.6763	0.7658	1.4421	473.4	1117.5	620
640	493.21	0.0203	0.6995	0.7198	479.8	722.7	1202.5	0.6805	0.7584	1.4389	477.4	1117.3	640
660	496.58	0.0204	0.6767	0.6971	483.8	718.3	1202.1	0.6846	0.7512	1.4358	481.3	1117.0	660
680	499.88	0.0204	0.6553	0.6757	487.7	714.0	1201.7	0.6886	0.7441	1.4327	485.1	1116.7	680
700	503.10	0.0205	0.6349	0.6554	491.5	709.7	1201.2	0.6925	0.7371	1.4296	488.8	1116.3	700
720	506.25	0.0206	0.6156	0.6362	495.3	705.4	1200.7	0.6963	0.7303	1.4266	492.5	1116.0	720
740	509.34	0.0207	0.5973	0.6180	499.0	701.2	1200.2	0.7001	0.7237	1.4237	496.2	1115.6	740
760	512.36	0.0207	0.5800	0.6007	502.6	697.1	1199.7	0.7037	0.7172	1.4209	499.7	1115.2	760
780	515.33	0.0208	0.5635	0.5843	506.2	692.9	1199.1	0.7073	0.7108	1.4181	503.2	1114.8	780
800	518.23	0.0209	0.5478	0.5687	509.7	688.9	1198.6	0.7108	0.7045	1.4153	506.6	1114.4	800
820	521.08	0.0209	0.5329	0.5538	513.2	684.8	1198.0	0.7143	0.6983	1.4126	510.0	1114.0	820
840	523.88	0.0210	0.5186	0.5396	516.6	680.8	1197.4	0.7177	0.6922	1.4099	513.3	1113.6	840
860	526.63	0.0211	0.5049	0.5260	520.0	676.8	1196.8	0.7210	0.6862	1.4072	516.6	1113.1	860
880	529.33	0.0212	0.4918	0.5130	523.3	672.8	1196.1	0.7243	0.6803	1.4046	519.9	1112.6	880
900	531.98	0.0212	0.4794	0.5006	526.6	668.8	1195.4	0.7275	0.6744	1.4020	523.1	1112.1	900
920	534.59	0.0213	0.4673	0.4886	529.8	664.9	1194.7	0.7307	0.6687	1.3995	526.2	1111.5	920
940	537.16	0.0214	0.4558	0.4772	533.0	661.0	1194.0	0.7339	0.6631	1.3970	529.3	1111.0	940
960	539.68	0.0214	0.4449	0.4663	536.2	657.1	1193.3	0.7370	0.6576	1.3945	532.4	1110.5	960
980	542.17	0.0215	0.4342	0.4557	539.3	653.3	1192.6	0.7400	0.6521	1.3921	535.4	1110.0	980
1000	544.61	0.0216	0.4240	0.4456	542.4	649.4	1191.8	0.7430	0.6467	1.3897	538.4	1109.4	1000
1050	556.57	0.0218	0.4000	0.4218	550.0	639.9	1189.9	0.7504	0.6334	1.3838	545.8	1108.0	1050
1100	556.31	0.0220	0.3781	0.4001	557.4	630.4	1187.8	0.7575	0.6205	1.3780	552.9	1106.4	1100
1150	561.86	0.0221	0.3581	0.3802	564.6	621.0	1185.6	0.7644	0.6079	1.3723	559.9	1104.7	1150
1200	567.22	0.0223	0.3396	0.3619	571.7	611.7	1183.4	0.7711	0.5956	1.3667	566.7	1103.0	1200
1250	572.42	0.0225	0.3225	0.3450	578.6	602.4	1181.0	0.7776	0.5836	1.3612	573.4	1101.2	1250
1300	577.46	0.0227	0.3066	0.3293	585.4	593.2	1178.6	0.7840	0.5719	1.3559	580.0	1099.4	1300
1350	582.35	0.0229	0.2919	0.3148	592.1	584.0	1176.1	0.7902	0.5604	1.3506	586.4	1097.5	1350
1400	587.10	0.0231	0.2781	0.3012	598.7	574.7	1173.4	0.7963	0.5491	1.3454	592.7	1095.4	1400
1450	591.73	0.0233	0.2651	0.2884	605.2	565.5	1170.7	0.8023	0.5379	1.3402	599.0	1093.3	1450
1500	596.23	0.0235	0.2530	0.2765	611.6	556.3	1167.9	0.8082	0.5269	1.3351	605.1	1091.2	1500
1600	604.90	0.0239	0.2309	0.2548	624.1	538.0	1162.1	0.8196	0.5053	1.3249	617.0	1086.7	1600
1700	613.15	0.0243	0.2111	0.2354	636.3	519.6	1155.9	0.8306	0.4843	1.3149	628.7	1081.8	1700
1800	621.03	0.0247	0.1932	0.2179	648.3	501.1	1149.4	0.8412	0.4637	1.3049	640.1	1076.8	1800
1900	628.58	0.0252	0.1769	0.2021	660.1	482.4	1142.4	0.8516	0.4433	1.2949	651.2	1071.4	1900
2000	635.82	0.0257	0.1621	0.1878	671.7	463.4	1135.1	0.8619	0.4230	1.2849	662.2	1065.6	2000
2100	642.77	0.0262	0.1484	0.1746	683.3	444.1	1127.4	0.8721	0.4027	1.2748	673.1	1059.6	2100
2200	649.46	0.0268	0.1358	0.1625	694.8	424.4	1119.2	0.8820	0.3826	1.2646	683.9	1053.1	2200
2300	655.91	0.0274	0.1239	0.1513	706.5	403.9	1110.4	0.8921	0.3621	1.2541	694.8	1046.0	2300
2400	662.12	0.0280	0.1128	0.1407	718.4	382.7	1101.1	0.9023	0.3411	1.2434	706.0	1038.6	2400
2500	668.13	0.0287	0.1021	0.1307	730.6	360.5	1091.1	0.9126	0.3197	1.2322	717.3	1030.6	2500
2600	673.94	0.0295	0.0918	0.1213	743.0	337.2	1080.2	0.9232	0.2973	1.2205	728.8	1021.9	2600
2700	679.55	0.0305	0.0818	0.1123	756.2	312.1	1068.3	0.9342	0.2740	1.2082	741.0	1012.3	2700
2800	684.99	0.0315	0.0719	0.1035	770.1	284.7	1054.8	0.9459	0.2487	1.1946	753.8	1001.2	2800
2900	690.26	0.0329	0.0618	0.0947	785.4	253.6	1039.0	0.9587	0.2205	1.1792	767.7	988.2	2900
3000	695.36	0.0346	0.0512	0.0858	802.5	217.8	1020.3	0.9731	0.1885	1.1615	783.4	972.7	3000
3100	700.31	0.0371	0.0382	0.0753	825.0	168.1	993.1	0.9919	0.1449	1.1368	803.7	949.9	3100
3200	705.11	0.0444	0.0136	0.0580	872.4	62.0	934.4	1.0320	0.0532	1.0852	846.0	898.4	3200
3206.2	705.40	0.0503	0	0.0503	902.7	0	902.7	1.0580	0	1.0580	872.9	872.9	3206.2

第三表 過熱汽體

壓力 每平方吋 (飽和溫度)	飽和 液體	飽和 氣體	溫度——華氏度數															
			120°	140°	160°	180°	200°	220°	240°	260°	280°	300°	320°	340°	360°	380°		
1 (101.74)	0.02 69.7 0.1326	333.6 1106.0 1.9782	344.6 1114.3 1.9928	356.6 1123.3 2.0081	368.6 1132.4 2.0230	380.6 1141.4 2.0373	392.6 1150.4 2.0512	404.5 1159.5 2.0647	416.5 1168.5 2.0779	428.4 1177.6 2.0907	440.4 1186.7 2.1031	452.3 1195.8 2.1153	464.2 1204.8 2.1271	476.2 1214.1 2.1387	488.1 1223.3 2.1501	500 1232.3 2.161		
2 (126.08)	0.02 91.0 0.1749	173.7 1116.2 1.9200		177.96 1131.8 1.9308	184.01 1140.9 1.9458	190.04 1149.9 1.9603	196.06 1159.1 1.9743	202.1 1168.2 1.9879	208.1 1177.3 2.0011	214.1 1186.5 2.0140	220.0 1195.8 2.0265	226.0 1204.8 2.0387	232.0 1213.9 2.0506	238.0 1223.0 2.0622	244.0 1232.0 2.0735	249 1241.0 2.084		
3 (141.48)	0.02 109.4 0.2008	118.7 1122.6 1.8653		122.48 1140.4 1.9003	126.53 1149.6 1.9150	130.56 1158.8 1.9291	134.58 1167.9 1.9428	138.59 1177.1 1.9561	142.60 1186.2 1.9690	146.60 1195.4 1.9815	150.60 1204.8 1.9937	154.59 1213.9 2.0057	158.58 1223.0 2.0173	162.57 1232.0 2.0287	166.5 1241.0 2.039			
4 (152.97)	0.02 120.9 0.2198	90.63 1127.3 1.8625		91.71 1130.6 1.8678	94.77 1139.9 1.8827	97.81 1149.2 1.8969	100.84 1158.5 1.9107	103.86 1167.6 1.9240	106.87 1176.8 1.9370	109.88 1186.0 1.9496	112.88 1195.2 1.9618	115.88 1204.4 1.9738	118.88 1213.6 1.9854	121.88 1222.8 1.9968	124.8 1232.0 2.008			
5 (162.24)	0.02 130.1 0.2347	73.52 1131.1 1.8441		75.71 1139.4 1.8574	78.16 1148.8 1.8718	80.59 1158.1 1.8857	83.01 1167.3 1.8991	85.43 1176.5 1.9121	87.85 1185.7 1.9247	90.25 1194.9 1.9370	92.66 1204.2 1.9490	95.06 1213.4 1.9607	97.46 1222.6 1.9721	99.7 1231.8 1.983				
6 (170.06)	0.02 138.0 0.2472	61.98 1134.2 1.8292		63.00 1138.9 1.8367	65.05 1148.3 1.8512	67.09 1157.7 1.8651	69.12 1167.0 1.8786	71.14 1176.3 1.8917	73.16 1185.5 1.9044	75.17 1194.7 1.9167	77.18 1203.9 1.9287	79.18 1213.1 1.9404	81.18 1222.3 1.9518	83.1 1231.5 1.962				
7 (176.85)	0.02 144.8 0.2581	53.64 1136.9 1.8167		53.63 1138.4 1.8190	55.69 1147.9 1.8336	57.45 1157.4 1.8477	59.19 1166.7 1.8613	60.93 1176.0 1.8744	62.67 1185.3 1.8871	64.39 1194.5 1.8995	66.12 1203.6 1.9115	67.84 1212.8 1.9232	69.56 1221.9 1.9347	71.2 1231.1 1.945				
8 (182.86)	0.02 150.8 0.2674	47.34 1139.3 1.8057		48.67 1147.5 1.8184	50.22 1157.0 1.8325	51.75 1166.3 1.8462	53.28 1175.7 1.8594	54.80 1185.0 1.8721	56.31 1194.3 1.8845	57.82 1203.6 1.8966	59.33 1212.8 1.9084	60.84 1222.0 1.9199	62.3 1231.2 1.931					
9 (188.28)	0.02 156.2 0.2759	42.40 1141.4 1.7962		43.21 1147.0 1.8049	44.59 1156.6 1.8191	45.96 1166.0 1.8328	47.32 1175.4 1.8461	48.67 1184.8 1.8589	50.03 1194.1 1.8713	51.37 1203.4 1.8834	52.71 1212.6 1.8952	54.06 1221.8 1.9067	55.5 1231.0 1.917					
10 (193.21)	0.02 161.2 0.2835	38.42 1143.3 1.7876		38.85 1146.6 1.7927	40.09 1156.2 1.8071	41.33 1165.7 1.8208	42.56 1175.1 1.8341	43.78 1184.5 1.8470	45.00 1193.9 1.8595	46.21 1203.2 1.8716	47.42 1212.5 1.8834	48.63 1221.7 1.8950	49.8 1230.9 1.906					
11 (197.75)	0.02 165.7 0.2903	35.14 1145.0 1.7800		36.27 1146.1 1.7816	36.41 1155.8 1.7961	37.54 1165.4 1.8100	38.66 1174.9 1.8233	39.77 1184.3 1.8362	40.88 1193.6 1.8487	41.99 1203.0 1.8609	43.09 1212.2 1.8728	44.19 1221.4 1.8843	45.2 1230.6 1.895					
12 (201.96)	0.02 170.0 0.2967	32.40 1146.6 1.7730							33.34 1155.4 1.7860	34.38 1165.0 1.8000	35.41 1174.6 1.8134	36.43 1184.0 1.8264	37.45 1193.4 1.8389	38.47 1202.8 1.8511	39.48 1212.2 1.8630	40.49 1221.6 1.8745	41.5 1230.9 1.885	
13 (205.88)	0.02 173.9 0.3027	30.06 1148.1 1.7665							30.74 1155.1 1.7768	31.71 1164.7 1.7908	32.66 1174.3 1.8043	33.61 1183.8 1.8173	34.55 1193.2 1.8299	35.49 1202.6 1.8421	36.43 1212.0 1.8540	37.36 1221.4 1.8656	38.2 1230.7 1.876	
14 (209.56)	0.02 177.6 0.3083	28.04 1149.5 1.7605							28.52 1154.6 1.7681	29.41 1164.4 1.7822	30.30 1174.0 1.7958	31.19 1183.5 1.8088	32.06 1193.0 1.8215	32.94 1202.4 1.8337	33.81 1211.8 1.8457	34.68 1221.2 1.8573	35.54 1230.6 1.8686	
14.666 (212.00)	0.02 180.1 0.3120	26.80 1150.4 1.7566							27.15 1154.4 1.7624	28.00 1164.2 1.7766	28.85 1173.8 1.7902	29.70 1183.3 1.8033	30.53 1192.8 1.8160	31.37 1202.3 1.8283	32.20 1211.7 1.8402	33.03 1221.1 1.8518	33.85 1230.5 1.8631	
15 (213.03)	0.02 181.1 0.3135	26.29 1150.8 1.7549							26.59 1154.3 1.7601	27.43 1164.1 1.7742	28.26 1173.7 1.7879	29.09 1183.2 1.8010	29.91 1192.7 1.8136	30.73 1202.2 1.8259	31.54 1211.6 1.8379	32.35 1221.0 1.8495	33.16 1230.4 1.8609	
16 (216.32)	0.02 184.4 0.3184	24.75 1152.0 1.7497							24.90 1153.8 1.7524	25.69 1163.7 1.7667	26.47 1173.4 1.7804	27.25 1183.0 1.7936	28.02 1192.5 1.8063	28.79 1202.0 1.8186	29.56 1211.5 1.8306	30.32 1220.9 1.8422	31.08 1230.3 1.8536	