



RS-100

(R464A)

THERMODYNAMIC TABLES

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RS-100 THERMODYNAMIC TABLES

RS-100 SATURATION PROPERTIES

Temp	Bubble Point	Dew Point	Liquid Phase	Vapor Phase	Liquid Phase	Vapor Phase	Liquid Phase	Vapor Phase	Liquid Phase	Vapor Phase
(°C)	Pressure	Pressure	Density	Density	Volume	Volume	Enthalpy	Enthalpy	Entropy	Entropy
	(bar)	(bar)	(kg/m ³)	(kg/m ³)	(m ³ /kg)	(m ³ /kg)	(kJ/kg)	(kJ/kg)	(kJ/kg-K)	(kJ/kg-K)
-60	0.50363	0.27646	1387.1	1.3995	0.00072090	0.7145600	119.99	362.26	0.6717	1.8444
-59	0.53231	0.29456	1384.2	1.4853	0.00072242	0.6732800	121.26	362.90	0.6777	1.8415
-58	0.56229	0.31362	1381.3	1.5752	0.00072395	0.6348300	122.54	363.53	0.6837	1.8387
-57	0.59360	0.33366	1378.4	1.6695	0.00072548	0.5989900	123.82	364.16	0.6896	1.8359
-56	0.62630	0.35474	1375.5	1.7682	0.00072703	0.5655400	125.11	364.79	0.6955	1.8332
-55	0.66043	0.37688	1372.5	1.8716	0.00072858	0.5343200	126.39	365.43	0.7014	1.8305
-54	0.69602	0.40012	1369.6	1.9797	0.00073015	0.5051400	127.67	366.06	0.7072	1.8278
-53	0.73313	0.42451	1366.6	2.0927	0.00073172	0.4778600	128.96	366.69	0.7131	1.8252
-52	0.77179	0.45009	1363.7	2.2108	0.00073331	0.4523300	130.25	367.32	0.7189	1.8227
-51	0.81207	0.47689	1360.7	2.3341	0.00073491	0.4284300	131.54	367.94	0.7247	1.8202
-50	0.85399	0.50496	1357.7	2.4629	0.00073652	0.4060300	132.83	368.57	0.7305	1.8178
-49	0.89761	0.53435	1354.8	2.5972	0.00073814	0.3850300	134.12	369.20	0.7362	1.8154
-48	0.94298	0.56509	1351.8	2.7373	0.00073977	0.3653200	135.41	369.82	0.7420	1.8130
-47	0.99015	0.59724	1348.8	2.8833	0.00074141	0.3468200	136.71	370.45	0.7477	1.8107
-46	1.03920	0.63083	1345.8	3.0354	0.00074307	0.3294400	138.00	371.07	0.7534	1.8085
-45	1.09010	0.66591	1342.8	3.1938	0.00074473	0.3131000	139.30	371.69	0.7591	1.8062
-44	1.14290	0.70254	1339.7	3.3587	0.00074641	0.2977400	140.60	372.31	0.7648	1.8041
-43	1.19780	0.74075	1336.7	3.5302	0.00074811	0.2832700	141.90	372.93	0.7704	1.8019
-42	1.25460	0.78060	1333.7	3.7086	0.00074981	0.2696500	143.21	373.55	0.7761	1.7998
-41	1.31360	0.82214	1330.6	3.8940	0.00075153	0.2568100	144.51	374.16	0.7817	1.7978
-40	1.37480	0.86541	1327.6	4.0866	0.00075326	0.2447000	145.82	374.78	0.7873	1.7957
-39	1.43810	0.91048	1324.5	4.2867	0.00075501	0.2332800	147.13	375.39	0.7928	1.7938
-38	1.50370	0.95738	1321.4	4.4944	0.00075677	0.2225000	148.44	376.00	0.7984	1.7918
-37	1.57170	1.00620	1318.3	4.7100	0.00075854	0.2123100	149.75	376.61	0.8040	1.7899
-36	1.64200	1.05690	1315.2	4.9337	0.00076032	0.2026900	151.06	377.22	0.8095	1.7880
-35	1.71470	1.10960	1312.1	5.1656	0.00076213	0.1935900	152.38	377.82	0.8150	1.7862
-34	1.78990	1.16440	1309.0	5.4060	0.00076394	0.1849800	153.70	378.43	0.8205	1.7844
-33	1.86760	1.22130	1305.9	5.6551	0.00076577	0.1768300	155.02	379.03	0.8260	1.7826
-32	1.94800	1.28040	1302.7	5.9132	0.00076762	0.1691100	156.34	379.63	0.8315	1.7808
-31	2.03090	1.34170	1299.6	6.1805	0.00076948	0.1618000	157.67	380.23	0.8369	1.7791
-30	2.11660	1.40520	1296.4	6.4572	0.00077136	0.1548700	158.99	380.83	0.8424	1.7774
-29	2.20510	1.47110	1293.2	6.7436	0.00077325	0.1482900	160.32	381.42	0.8478	1.7758

RS-100 SATURATION PROPERTIES

Temp	Bubble Point Pressure	Dew Point Pressure	Liquid Phase Density	Vapor Phase Density	Liquid Phase Volume	Vapor Phase Volume	Liquid Phase Enthalpy	Vapor Phase Enthalpy	Liquid Phase Entropy	Vapor Phase Entropy
-28	2.29640	1.53940	1290.1	7.0398	0.00077516	0.1420500	161.65	382.02	0.8532	1.7742
-27	2.39060	1.61010	1286.9	7.3462	0.00077709	0.1361200	162.99	382.61	0.8586	1.7726
-26	2.48770	1.68340	1283.6	7.6630	0.00077903	0.1305000	164.32	383.19	0.8640	1.7710
-25	2.58780	1.75920	1280.4	7.9905	0.00078100	0.1251500	165.66	383.78	0.8693	1.7694
-24	2.69110	1.83770	1277.2	8.3289	0.00078297	0.1200600	167.00	384.36	0.8747	1.7679
-23	2.79740	1.91890	1273.9	8.6785	0.00078497	0.1152300	168.34	384.95	0.8801	1.7664
-22	2.90690	2.00280	1270.7	9.0396	0.00078699	0.1106200	169.69	385.53	0.8854	1.7649
-21	3.01970	2.08960	1267.4	9.4124	0.00078902	0.1062400	171.04	386.10	0.8907	1.7635
-20	3.13580	2.17920	1264.1	9.7972	0.00079108	0.1020700	172.39	386.68	0.8960	1.7621
-19	3.25530	2.27180	1260.8	10.1940	0.00079315	0.0980930	173.74	387.25	0.9013	1.7607
-18	3.37820	2.36750	1257.5	10.6040	0.00079525	0.0943030	175.10	387.82	0.9066	1.7593
-17	3.50460	2.46620	1254.1	11.0270	0.00079736	0.0906880	176.45	388.38	0.9119	1.7579
-16	3.63470	2.56800	1250.8	11.4630	0.00079950	0.0872390	177.81	388.94	0.9171	1.7566
-15	3.76830	2.67310	1247.4	11.9120	0.00080166	0.0839470	179.18	389.51	0.9224	1.7553
-14	3.90560	2.78150	1244.0	12.3760	0.00080384	0.0808040	180.54	390.06	0.9276	1.7540
-13	4.04670	2.89330	1240.6	12.8530	0.00080604	0.0778020	181.91	390.62	0.9329	1.7527
-12	4.19170	3.00850	1237.2	13.3450	0.00080826	0.0749330	183.29	391.17	0.9381	1.7515
-11	4.34050	3.12710	1233.8	13.8520	0.00081051	0.0721910	184.66	391.72	0.9433	1.7502
-10	4.49330	3.24940	1230.3	14.3740	0.00081278	0.0695680	186.04	392.26	0.9485	1.7490
-9	4.65020	3.37530	1226.9	14.9120	0.00081508	0.0670590	187.42	392.80	0.9537	1.7478
-8	4.81110	3.50490	1223.4	15.4660	0.00081740	0.0646580	188.81	393.34	0.9589	1.7466
-7	4.97620	3.63830	1219.9	16.0360	0.00081975	0.0623590	190.19	393.88	0.9640	1.7454
-6	5.14560	3.77560	1216.4	16.6230	0.00082212	0.0601580	191.58	394.41	0.9692	1.7443
-5	5.31920	3.91680	1212.8	17.2270	0.00082452	0.0580490	192.98	394.94	0.9743	1.7431
-4	5.49720	4.06200	1209.3	17.8480	0.00082695	0.0560270	194.38	395.46	0.9795	1.7420
-3	5.67970	4.21130	1205.7	18.4880	0.00082940	0.0540900	195.78	395.98	0.9846	1.7409
-2	5.86660	4.36480	1202.1	19.1460	0.00083189	0.0522310	197.18	396.50	0.9898	1.7398
-1	6.05820	4.52250	1198.5	19.8220	0.00083440	0.0504480	198.59	397.01	0.9949	1.7387
0	6.25440	4.68460	1194.8	20.5180	0.00083695	0.0487370	200.00	397.52	1.0000	1.7376
1	6.45530	4.85100	1191.2	21.2340	0.00083952	0.0470940	201.42	398.03	1.0051	1.7365
2	6.66100	5.02190	1187.5	21.9700	0.00084213	0.0455170	202.83	398.53	1.0102	1.7355
3	6.87150	5.19740	1183.8	22.7270	0.00084477	0.0440010	204.26	399.02	1.0153	1.7344
4	7.08700	5.37760	1180.0	23.5050	0.00084744	0.0425450	205.68	399.52	1.0204	1.7334
5	7.30750	5.56250	1176.3	24.3040	0.00085015	0.0411450	207.11	400.00	1.0255	1.7324
6	7.53310	5.75210	1172.5	25.1260	0.00085289	0.0397990	208.55	400.49	1.0306	1.7313

RS-100 SATURATION PROPERTIES

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7	7.76380	5.94670	1168.7	25.9710	0.00085567	0.0385050	209.99	400.97	1.0356	1.7303
8	7.99970	6.14630	1164.8	26.8390	0.00085849	0.0372590	211.43	401.44	1.0407	1.7293
9	8.24090	6.35090	1161.0	27.7310	0.00086134	0.0360600	212.88	401.91	1.0458	1.7283
10	8.48750	6.56070	1157.1	28.6480	0.00086424	0.0349060	214.33	402.37	1.0508	1.7273
11	8.73950	6.77570	1153.2	29.5900	0.00086717	0.0337950	215.79	402.83	1.0559	1.7263
12	8.99710	6.99600	1149.2	30.5580	0.00087015	0.0327250	217.25	403.28	1.0609	1.7254
13	9.26020	7.22180	1145.3	31.5520	0.00087317	0.0316930	218.71	403.73	1.0660	1.7244
14	9.52890	7.45300	1141.3	32.5740	0.00087623	0.0306990	220.18	404.17	1.0710	1.7234
15	9.80340	7.68990	1137.2	33.6240	0.00087934	0.0297410	221.66	404.61	1.0761	1.7224
16	10.08400	7.93240	1133.2	34.7020	0.00088250	0.0288160	223.14	405.04	1.0811	1.7215
17	10.37000	8.18080	1129.1	35.8100	0.00088570	0.0279250	224.62	405.47	1.0862	1.7205
18	10.66200	8.43500	1124.9	36.9490	0.00088895	0.0270650	226.11	405.88	1.0912	1.7195
19	10.96000	8.69520	1120.8	38.1180	0.00089226	0.0262340	227.61	406.30	1.0962	1.7186
20	11.26400	8.96140	1116.5	39.3190	0.00089562	0.0254330	229.11	406.70	1.1013	1.7176
21	11.57500	9.23390	1112.3	40.5540	0.00089903	0.0246590	230.61	407.10	1.1063	1.7167
22	11.89200	9.51260	1108.0	41.8220	0.00090250	0.0239110	232.13	407.49	1.1113	1.7157
23	12.21500	9.79760	1103.7	43.1250	0.00090603	0.0231890	233.64	407.88	1.1164	1.7147
24	12.54400	10.08900	1099.4	44.4630	0.00090962	0.0224900	235.17	408.26	1.1214	1.7137
25	12.88000	10.38700	1095.0	45.8390	0.00091327	0.0218150	236.70	408.63	1.1264	1.7128
26	13.22300	10.69200	1090.5	47.2530	0.00091698	0.0211630	238.23	408.99	1.1315	1.7118
27	13.57200	11.00400	1086.1	48.7050	0.00092077	0.0205320	239.77	409.34	1.1365	1.7108
28	13.92800	11.32200	1081.5	50.1980	0.00092462	0.0199210	241.32	409.69	1.1416	1.7098
29	14.29000	11.64700	1077.0	51.7330	0.00092854	0.0193300	242.88	410.03	1.1466	1.7088
30	14.66000	11.98000	1072.3	53.3100	0.00093254	0.0187580	244.44	410.36	1.1516	1.7078
31	15.03600	12.32000	1067.7	54.9320	0.00093662	0.0182040	246.00	410.68	1.1567	1.7068
32	15.42000	12.66700	1063.0	56.5990	0.00094078	0.0176680	247.58	410.99	1.1617	1.7058
33	15.81000	13.02100	1058.2	58.3130	0.00094502	0.0171490	249.16	411.29	1.1668	1.7048
34	16.20800	13.38400	1053.4	60.0770	0.00094934	0.0166450	250.75	411.58	1.1719	1.7037
35	16.61300	13.75300	1048.5	61.8900	0.00095376	0.0161580	252.35	411.87	1.1769	1.7027
36	17.02600	14.13100	1043.5	63.7560	0.00095828	0.0156850	253.96	412.14	1.1820	1.7016
37	17.44600	14.51700	1038.5	65.6760	0.00096289	0.0152260	255.57	412.40	1.1871	1.7005
38	17.87300	14.91000	1033.5	67.6520	0.00096760	0.0147810	257.19	412.65	1.1922	1.6994
39	18.30800	15.31200	1028.4	69.6860	0.00097242	0.0143500	258.82	412.89	1.1973	1.6983
40	18.75000	15.72200	1023.2	71.7810	0.00097736	0.0139310	260.46	413.12	1.2024	1.6972
41	19.20100	16.14100	1017.9	73.9380	0.00098241	0.0135250	262.11	413.33	1.2075	1.6960

RS-100 SATURATION PROPERTIES

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42	19.65900	16.56800	1012.6	76.1600	0.00098758	0.0131300	263.77	413.53	1.2126	1.6949
43	20.12500	17.00400	1007.2	78.4490	0.00099289	0.0127470	265.44	413.72	1.2178	1.6937
44	20.59900	17.44800	1001.7	80.8090	0.00099832	0.0123750	267.12	413.90	1.2229	1.6925
45	21.08100	17.90200	996.1	83.2430	0.00100390	0.0120130	268.81	414.06	1.2281	1.6912
46	21.57200	18.36500	990.5	85.7520	0.00100960	0.0116610	270.51	414.21	1.2333	1.6900
47	22.07000	18.83700	984.7	88.3420	0.00101550	0.0113200	272.22	414.34	1.2385	1.6887
48	22.57700	19.31900	978.9	91.0160	0.00102160	0.0109870	273.94	414.45	1.2437	1.6874
49	23.09300	19.81100	973.0	93.7770	0.00102780	0.0106640	275.68	414.55	1.2489	1.6860
50	23.61600	20.31200	966.9	96.6290	0.00103420	0.0103490	277.43	414.63	1.2542	1.6846
51	24.14900	20.82300	960.8	99.5780	0.00104080	0.0100420	279.19	414.70	1.2594	1.6832
52	24.69000	21.34500	954.5	102.6300	0.00104770	0.0097439	280.97	414.74	1.2647	1.6818
53	25.24000	21.87600	948.1	105.7800	0.00105470	0.0094532	282.76	414.76	1.2701	1.6803
54	25.79800	22.41900	941.6	109.0500	0.00106200	0.0091699	284.57	414.77	1.2754	1.6787
55	26.36600	22.97200	935.0	112.4400	0.00106950	0.0088937	286.39	414.75	1.2808	1.6772
56	26.94200	23.53600	928.2	115.9500	0.00107740	0.0086242	288.23	414.71	1.2862	1.6755
57	27.52800	24.11200	921.3	119.6000	0.00108550	0.0083614	290.09	414.64	1.2917	1.6739
58	28.12200	24.69800	914.2	123.3800	0.00109390	0.0081047	291.97	414.55	1.2971	1.6721
59	28.72600	25.29700	906.9	127.3200	0.00110270	0.0078541	293.86	414.43	1.3027	1.6703
60	29.33900	25.90800	899.4	131.4200	0.00111180	0.0076092	295.79	414.28	1.3082	1.6684
61	29.96200	26.53000	891.8	135.6900	0.00112140	0.0073697	297.73	414.09	1.3139	1.6665
62	30.59400	27.16600	883.9	140.1500	0.00113140	0.0071354	299.70	413.88	1.3195	1.6645
63	31.23500	27.81400	875.8	144.8000	0.00114190	0.0069060	301.70	413.63	1.3253	1.6624
64	31.88600	28.47600	867.4	149.6700	0.00115290	0.0066813	303.73	413.34	1.3311	1.6602
65	32.54600	29.15100	858.7	154.7800	0.00116450	0.0064609	305.79	413.01	1.3369	1.6579
66	33.21600	29.84000	849.8	160.1400	0.00117680	0.0062446	307.89	412.63	1.3429	1.6555
67	33.89600	30.54300	840.4	165.7800	0.00118990	0.0060321	310.02	412.20	1.3490	1.6529
68	34.58500	31.26200	830.7	171.7300	0.00120380	0.0058231	312.20	411.72	1.3551	1.6503
69	35.28400	31.99600	820.6	178.0300	0.00121860	0.0056172	314.43	411.17	1.3614	1.6474
70	35.99200	32.74600	810.0	184.7000	0.00123460	0.0054141	316.71	410.56	1.3678	1.6444
71	36.70900	33.51200	798.8	191.8100	0.00125190	0.0052134	319.06	409.87	1.3744	1.6413
72	37.43600	34.29700	787.0	199.4200	0.00127070	0.0050146	321.48	409.10	1.3811	1.6379
73	38.17100	35.09900	774.4	207.5800	0.00129130	0.0048173	323.98	408.23	1.3881	1.6342
74	38.91500	35.92200	760.9	216.4100	0.00131420	0.0046208	326.58	407.24	1.3953	1.6302
75	39.66600	36.76500	746.4	226.0300	0.00133980	0.0044243	329.30	406.12	1.4028	1.6259
76	40.42400	37.63200	730.5	236.5900	0.00136890	0.0042268	332.16	404.84	1.4108	1.6212
77	41.18800	38.52300	713.0	248.3200	0.00140260	0.0040270	335.22	403.36	1.4192	1.6159
78	41.95400	39.44200	693.1	261.5700	0.00144270	0.0038231	338.52	401.63	1.4283	1.6099
79	42.71900	40.39400	670.1	276.8600	0.00149230	0.0036119	342.19	399.55	1.4384	1.6030
80	43.47400	41.38700	642.2	295.1100	0.00155730	0.0033886	346.42	396.99	1.4501	1.5948

RS-100 SUPERHEAT PROPERTIES

Satn -60 °C [Dew Point 0.27646 bar]

Satn -50 °C [Dew Point 0.50496 bar]

Satn -40 °C [Dew Point 0.86541 bar]

Satn -30 °C [Dew Point 1.40520 bar]

Satn -60 °C [Dew Point 0.27646 bar]				Satn -50 °C [Dew Point 0.50496 bar]				Satn -40 °C [Dew Point 0.86541 bar]				Satn -30 °C [Dew Point 1.40520 bar]			
Temp	Volume	Enthalpy	Entropy	Temp	Volume	Enthalpy	Entropy	Temp	Volume	Enthalpy	Entropy	Temp	Volume	Enthalpy	Entropy
(°C)	(m³/kg)	(kJ/kg)	(kJ/kg-K)	(°C)	(m³/kg)	(kJ/kg)	(kJ/kg-K)	(°C)	(m³/kg)	(kJ/kg)	(kJ/kg-K)	(°C)	(m³/kg)	(kJ/kg)	(kJ/kg-K)
-60	0.71455	362.26	1.8444	-50	0.40603	368.57	1.8178	-40	0.24470	374.78	1.7957	-30	0.15487	380.83	1.7774
-59	0.71814	362.98	1.8478	-49	0.40804	369.32	1.8211	-39	0.24591	375.56	1.7991	-29	0.15564	381.65	1.7808
-58	0.72172	363.71	1.8512	-48	0.41005	370.08	1.8245	-38	0.24712	376.34	1.8024	-28	0.15642	382.46	1.7841
-57	0.72529	364.43	1.8546	-47	0.41206	370.83	1.8278	-37	0.24833	377.13	1.8058	-27	0.15719	383.28	1.7875
-56	0.72886	365.16	1.8579	-46	0.41406	371.58	1.8311	-36	0.24953	377.91	1.8091	-26	0.15796	384.09	1.7908
-55	0.73243	365.89	1.8613	-45	0.41606	372.34	1.8345	-35	0.25073	378.69	1.8124	-25	0.15872	384.91	1.7941
-54	0.73600	366.62	1.8646	-44	0.41805	373.09	1.8378	-34	0.25193	379.48	1.8156	-24	0.15949	385.73	1.7973
-53	0.73956	367.35	1.8679	-43	0.42004	373.85	1.8410	-33	0.25313	380.26	1.8189	-23	0.16025	386.54	1.8006
-52	0.74311	368.08	1.8712	-42	0.42203	374.60	1.8443	-32	0.25432	381.04	1.8222	-22	0.16101	387.36	1.8039
-51	0.74666	368.81	1.8745	-41	0.42402	375.36	1.8476	-31	0.25551	381.83	1.8254	-21	0.16177	388.17	1.8071
-50	0.75021	369.54	1.8778	-40	0.42600	376.12	1.8508	-30	0.25670	382.62	1.8287	-20	0.16253	388.99	1.8103
-49	0.75376	370.27	1.8811	-39	0.42798	376.88	1.8541	-29	0.25789	383.40	1.8319	-19	0.16328	389.81	1.8136
-48	0.75730	371.01	1.8844	-38	0.42996	377.64	1.8573	-28	0.25907	384.19	1.8351	-18	0.16404	390.62	1.8168
-47	0.76084	371.75	1.8876	-37	0.43194	378.40	1.8606	-27	0.26026	384.98	1.8383	-17	0.16479	391.44	1.8200
-46	0.76438	372.48	1.8909	-36	0.43391	379.16	1.8638	-26	0.26144	385.77	1.8415	-16	0.16554	392.26	1.8231
-45	0.76792	373.22	1.8941	-35	0.43588	379.92	1.8670	-25	0.26261	386.56	1.8447	-15	0.16629	393.08	1.8263
-44	0.77145	373.96	1.8974	-34	0.43785	380.69	1.8702	-24	0.26379	387.35	1.8479	-14	0.16703	393.90	1.8295
-43	0.77498	374.70	1.9006	-33	0.43982	381.45	1.8734	-23	0.26497	388.14	1.8510	-13	0.16778	394.71	1.8326
-42	0.77850	375.45	1.9038	-32	0.44179	382.22	1.8766	-22	0.26614	388.93	1.8542	-12	0.16852	395.53	1.8358
-41	0.78203	376.19	1.9070	-31	0.44375	382.98	1.8797	-21	0.26731	389.72	1.8574	-11	0.16927	396.36	1.8389
-40	0.78555	376.93	1.9102	-30	0.44571	383.75	1.8829	-20	0.26848	390.51	1.8605	-10	0.17001	397.18	1.8420
-39	0.78907	377.68	1.9134	-29	0.44767	384.52	1.8861	-19	0.26965	391.31	1.8636	-9	0.17075	398.00	1.8452
-38	0.79259	378.43	1.9166	-28	0.44963	385.29	1.8892	-18	0.27082	392.10	1.8668	-8	0.17149	398.82	1.8483
-37	0.79610	379.18	1.9198	-27	0.45159	386.06	1.8924	-17	0.27199	392.90	1.8699	-7	0.17223	399.64	1.8514
-36	0.79961	379.93	1.9230	-26	0.45354	386.84	1.8955	-16	0.27315	393.70	1.8730	-6	0.17296	400.47	1.8545
-35	0.80312	380.68	1.9261	-25	0.45549	387.61	1.8986	-15	0.27432	394.50	1.8761	-5	0.17370	401.29	1.8575
-34	0.80663	381.43	1.9293	-24	0.45745	388.39	1.9017	-14	0.27548	395.30	1.8792	-4	0.17443	402.12	1.8606
-33	0.81014	382.19	1.9324	-23	0.45940	389.16	1.9048	-13	0.27664	396.10	1.8822	-3	0.17517	402.94	1.8637
-32	0.81364	382.94	1.9356	-22	0.46134	389.94	1.9080	-12	0.27780	396.90	1.8853	-2	0.17590	403.77	1.8667
-31	0.81715	383.70	1.9387	-21	0.46329	390.72	1.9110	-11	0.27896	397.70	1.8884	-1	0.17663	404.60	1.8698
-30	0.82065	384.46	1.9418	-20	0.46523	391.50	1.9141	-10	0.28011	398.50	1.8914	0	0.17736	405.43	1.8728
-29	0.82415	385.21	1.9449	-19	0.46718	392.28	1.9172	-9	0.28127	399.31	1.8945	1	0.17809	406.26	1.8759
-28	0.82765	385.98	1.9480	-18	0.46912	393.06	1.9203	-8	0.28242	400.11	1.8975	2	0.17882	407.09	1.8789
-27	0.83114	386.74	1.9511	-17	0.47106	393.85	1.9234	-7	0.28358	400.92	1.9006	3	0.17954	407.92	1.8819
-26	0.83464	387.50	1.9542	-16	0.47300	394.63	1.9264	-6	0.28473	401.73	1.9036	4	0.18027	408.75	1.8849
-25	0.83813	388.27	1.9573	-15	0.47494	395.42	1.9295	-5	0.28588	402.54	1.9066	5	0.18100	409.59	1.8879
-24	0.84162	389.03	1.9604	-14	0.47688	396.21	1.9325	-4	0.28703	403.35	1.9096	6	0.18172	410.42	1.8909
-23	0.84511	389.80	1.9635	-13	0.47881	396.99	1.9355	-3	0.28818	404.16	1.9127	7	0.18244	411.26	1.8939
-22	0.84860	390.57	1.9666	-12	0.48075	397.78	1.9386	-2	0.28933	404.97	1.9157	8	0.18317	412.09	1.8969
-21	0.85209	391.34	1.9696	-11	0.48268	398.57	1.9416	-1	0.29048	405.78	1.9187	9	0.18389	412.93	1.8998
-20	0.85557	392.11	1.9727	-10	0.48461	399.37	1.9446	0	0.29162	406.60	1.9216	10	0.18461	413.77	1.9028
-19	0.85906	392.88	1.9757	-9	0.48654	400.16	1.9476	1	0.29277	407.42	1.9246	11	0.18533	414.61	1.9058
-18	0.86254	393.66	1.9788	-8	0.48848	400.96	1.9506	2	0.29391	408.23	1.9276	12	0.18605	415.45	1.9087
-17	0.86602	394.44	1.9818	-7	0.49040	401.75	1.9536	3	0.29506	409.05	1.9306	13	0.18677	416.29	1.9117

RS-100 SUPERHEAT PROPERTIES

Satn -60 °C [Dew Point 0.27646 bar]				Satn -50 °C [Dew Point 0.50496 bar]				Satn -40 °C [Dew Point 0.86541 bar]				Satn -30 °C [Dew Point 1.40520 bar]			
Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
-16	0.86950	395.21	1.9848	-6	0.49233	402.55	1.9566	4	0.29620	409.87	1.9335	14	0.18749	417.13	1.9146
-15	0.87298	395.99	1.9878	-5	0.49426	403.35	1.9596	5	0.29734	410.69	1.9365	15	0.18821	417.98	1.9175
-14	0.87646	396.77	1.9909	-4	0.49619	404.15	1.9626	6	0.29848	411.51	1.9394	16	0.18892	418.82	1.9205
-13	0.87993	397.55	1.9939	-3	0.49811	404.95	1.9656	7	0.29962	412.34	1.9424	17	0.18964	419.67	1.9234
-12	0.88341	398.34	1.9969	-2	0.50003	405.76	1.9685	8	0.30076	413.16	1.9453	18	0.19036	420.52	1.9263
-11	0.88688	399.12	1.9999	-1	0.50196	406.56	1.9715	9	0.30190	413.99	1.9482	19	0.19107	421.37	1.9292
-10	0.89036	399.91	2.0029	0	0.50388	407.37	1.9744	10	0.30304	414.81	1.9512	20	0.19178	422.21	1.9321
-9	0.89383	400.69	2.0059	1	0.50580	408.17	1.9774	11	0.30418	415.64	1.9541	21	0.19250	423.07	1.9350
-8	0.89730	401.48	2.0088	2	0.50772	408.98	1.9803	12	0.30532	416.47	1.9570	22	0.19321	423.92	1.9379
-7	0.90077	402.27	2.0118	3	0.50964	409.79	1.9833	13	0.30645	417.30	1.9599	23	0.19392	424.77	1.9408
-6	0.90424	403.06	2.0148	4	0.51156	410.60	1.9862	14	0.30759	418.13	1.9628	24	0.19464	425.62	1.9437
-5	0.90771	403.86	2.0177	5	0.51348	411.41	1.9891	15	0.30872	418.97	1.9657	25	0.19535	426.48	1.9465
-4	0.91117	404.65	2.0207	6	0.51540	412.23	1.9921	16	0.30986	419.80	1.9686	26	0.19606	427.34	1.9494
-3	0.91464	405.45	2.0236	7	0.51731	413.04	1.9950	17	0.31099	420.64	1.9715	27	0.19677	428.19	1.9523
-2	0.9181	406.25	2.0266	8	0.51923	413.86	1.9979	18	0.31212	421.47	1.9744	28	0.19748	429.05	1.9551
-1	0.92157	407.04	2.0295	9	0.52114	414.68	2.0008	19	0.31325	422.31	1.9772	29	0.19819	429.91	1.9580
0	0.92503	407.84	2.0325	10	0.52306	415.50	2.0037	20	0.31438	423.15	1.9801	30	0.19889	430.77	1.9608
1	0.9285	408.65	2.0354	11	0.52497	416.32	2.0066	21	0.31552	423.99	1.9830	31	0.19960	431.64	1.9637
2	0.93196	409.45	2.0383	12	0.52688	417.14	2.0095	22	0.31665	424.84	1.9858	32	0.20031	432.50	1.9665
3	0.93542	410.25	2.0412	13	0.52880	417.96	2.0123	23	0.31778	425.68	1.9887	33	0.20102	433.37	1.9693
4	0.93888	411.06	2.0442	14	0.53071	418.79	2.0152	24	0.31890	426.52	1.9915	34	0.20172	434.23	1.9722
5	0.94234	411.87	2.0471	15	0.53262	419.62	2.0181	25	0.32003	427.37	1.9944	35	0.20243	435.10	1.9750
6	0.94580	412.68	2.0500	16	0.53453	420.44	2.0210	26	0.32116	428.22	1.9972	36	0.20314	435.97	1.9778
7	0.94925	413.49	2.0529	17	0.53644	421.27	2.0238	27	0.32229	429.07	2.0001	37	0.20384	436.84	1.9806
8	0.95271	414.30	2.0558	18	0.53835	422.10	2.0267	28	0.32342	429.92	2.0029	38	0.20455	437.71	1.9834
9	0.95617	415.11	2.0586	19	0.54026	422.94	2.0295	29	0.32454	430.77	2.0057	39	0.20525	438.58	1.9862
10	0.95962	415.93	2.0615	20	0.54216	423.77	2.0324	30	0.32567	431.62	2.0085	40	0.20595	439.46	1.9890
11	0.96308	416.74	2.0644	21	0.54407	424.60	2.0352	31	0.32679	432.48	2.0113	41	0.20666	440.33	1.9918
12	0.96653	417.56	2.0673	22	0.54598	425.44	2.0381	32	0.32792	433.33	2.0141	42	0.20736	441.21	1.9946
13	0.96999	418.38	2.0701	23	0.54788	426.28	2.0409	33	0.32904	434.19	2.0170	43	0.20806	442.08	1.9974
14	0.97344	419.20	2.0730	24	0.54979	427.12	2.0437	34	0.33017	435.05	2.0198	44	0.20877	442.96	2.0001
15	0.97689	420.02	2.0759	25	0.55170	427.96	2.0466	35	0.33129	435.91	2.0225	45	0.20947	443.84	2.0029
16	0.98034	420.85	2.0787	26	0.55360	428.80	2.0494	36	0.33241	436.77	2.0253	46	0.21017	444.73	2.0057
17	0.98379	421.67	2.0816	27	0.55550	429.64	2.0522	37	0.33354	437.63	2.0281	47	0.21087	445.61	2.0084
18	0.98724	422.50	2.0844	28	0.55741	430.49	2.0550	38	0.33466	438.50	2.0309	48	0.21157	446.49	2.0112
19	0.99069	423.33	2.0873	29	0.55931	431.33	2.0578	39	0.33578	439.36	2.0337	49	0.21227	447.38	2.0140
20	0.99414	424.16	2.0901	30	0.56121	432.18	2.0606	40	0.33690	440.23	2.0365	50	0.21297	448.27	2.0167
21	0.99759	424.99	2.0929	31	0.56311	433.03	2.0634	41	0.33802	441.10	2.0392	51	0.21367	449.15	2.0194
22	1.00100	425.82	2.0957	32	0.56502	433.88	2.0662	42	0.33914	441.97	2.0420	52	0.21437	450.04	2.0222
23	1.00450	426.65	2.0986	33	0.56692	434.73	2.0690	43	0.34026	442.84	2.0447	53	0.21507	450.93	2.0249
24	1.00790	427.49	2.1014	34	0.56882	435.59	2.0718	44	0.34138	443.71	2.0475	54	0.21577	451.83	2.0276
25	1.01140	428.33	2.1042	35	0.57072	436.44	2.0745	45	0.34250	444.58	2.0502	55	0.21647	452.72	2.0304
26	1.01480	429.17	2.1070	36	0.57262	437.30	2.0773	46	0.34362	445.46	2.0530	56	0.21716	453.61	2.0331
27	1.01830	430.00	2.1098	37	0.57452	438.16	2.0801	47	0.34474	446.33	2.0557	57	0.21786	454.51	2.0358

RS-100 SUPERHEAT PROPERTIES

Satn -60 °C [Dew Point 0.27646 bar]				Satn -50 °C [Dew Point 0.50496 bar]				Satn -40 °C [Dew Point 0.86541 bar]				Satn -30 °C [Dew Point 1.40520 bar]			
Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
28	1.02170	430.85	2.1126	38	0.57642	439.02	2.0829	48	0.34586	447.21	2.0585	58	0.21856	455.41	2.0385
29	1.02520	431.69	2.1154	39	0.57831	439.88	2.0856	49	0.34698	448.09	2.0612	59	0.21926	456.31	2.0412
30	1.02860	432.53	2.1182	40	0.58021	440.74	2.0884	50	0.34810	448.97	2.0639	60	0.21995	457.21	2.0439
31	1.03200	433.38	2.1210	41	0.58211	441.60	2.0911	51	0.34921	449.85	2.0667	61	0.22065	458.11	2.0466
32	1.03550	434.23	2.1238	42	0.58401	442.47	2.0939	52	0.35033	450.74	2.0694	62	0.22134	459.01	2.0493
33	1.03890	435.08	2.1265	43	0.58590	443.33	2.0966	53	0.35145	451.62	2.0721	63	0.22204	459.91	2.0520
34	1.04240	435.93	2.1293	44	0.58780	444.20	2.0994	54	0.35256	452.51	2.0748	64	0.22274	460.82	2.0547
35	1.04580	436.78	2.1321	45	0.58970	445.07	2.1021	55	0.35368	453.40	2.0775	65	0.22343	461.73	2.0574
36	1.04930	437.63	2.1348	46	0.59159	445.94	2.1048	56	0.35479	454.29	2.0802	66	0.22413	462.64	2.0601
37	1.05270	438.49	2.1376	47	0.59349	446.81	2.1076	57	0.35591	455.18	2.0829	67	0.22482	463.55	2.0628
38	1.05610	439.34	2.1404	48	0.59538	447.69	2.1103	58	0.35703	456.07	2.0856	68	0.22552	464.46	2.0655
39	1.05960	440.20	2.1431	49	0.59728	448.56	2.1130	59	0.35814	456.96	2.0883	69	0.22621	465.37	2.0681
40	1.06300	441.06	2.1459	50	0.59917	449.44	2.1157	60	0.35925	457.86	2.0910	70	0.22690	466.28	2.0708
41	1.06650	441.92	2.1486	51	0.60107	450.32	2.1184	61	0.36037	458.75	2.0937	71	0.22760	467.20	2.0735
42	1.06990	442.78	2.1513	52	0.60296	451.20	2.1211	62	0.36148	459.65	2.0964	72	0.22829	468.11	2.0761
43	1.07330	443.65	2.1541	53	0.60485	452.08	2.1239	63	0.36260	460.55	2.0991	73	0.22898	469.03	2.0788
44	1.07680	444.51	2.1568	54	0.60675	452.96	2.1266	64	0.36371	461.45	2.1017	74	0.22968	469.95	2.0814
45	1.08020	445.38	2.1595	55	0.60864	453.85	2.1293	65	0.36482	462.35	2.1044	75	0.23037	470.87	2.0841
46	1.08360	446.25	2.1623	56	0.61053	454.73	2.1319	66	0.36594	463.26	2.1071	76	0.23106	471.79	2.0867
47	1.08710	447.12	2.1650	57	0.61242	455.62	2.1346	67	0.36705	464.16	2.1097	77	0.23175	472.72	2.0894
48	1.09050	447.99	2.1677	58	0.61432	456.51	2.1373	68	0.36816	465.07	2.1124	78	0.23245	473.64	2.0920
49	1.09400	448.86	2.1704	59	0.61621	457.40	2.1400	69	0.36927	465.97	2.1151	79	0.23314	474.57	2.0946
50	1.09740	449.73	2.1731	60	0.61810	458.29	2.1427	70	0.37038	466.88	2.1177	80	0.23383	475.50	2.0973
51	1.10080	450.61	2.1758	61	0.61999	459.18	2.1454	71	0.37150	467.79	2.1204	81	0.23452	476.42	2.0999
52	1.10430	451.49	2.1785	62	0.62188	460.08	2.1480	72	0.37261	468.71	2.1230	82	0.23521	477.35	2.1025
53	1.10770	452.37	2.1812	63	0.62377	460.97	2.1507	73	0.37372	469.62	2.1256	83	0.23590	478.29	2.1051
54	1.11110	453.25	2.1839	64	0.62566	461.87	2.1534	74	0.37483	470.53	2.1283	84	0.23659	479.22	2.1077
55	1.11460	454.13	2.1866	65	0.62755	462.77	2.1560	75	0.37594	471.45	2.1309	85	0.23729	480.15	2.1104
56	1.11800	455.01	2.1893	66	0.62944	463.67	2.1587	76	0.37705	472.37	2.1336	86	0.23798	481.09	2.1130
57	1.12140	455.90	2.1920	67	0.63133	464.57	2.1613	77	0.37816	473.29	2.1362	87	0.23867	482.03	2.1156
58	1.12490	456.78	2.1947	68	0.63322	465.47	2.1640	78	0.37927	474.21	2.1388	88	0.23936	482.97	2.1182
59	1.12830	457.67	2.1973	69	0.63511	466.38	2.1666	79	0.38038	475.13	2.1414	89	0.24005	483.91	2.1208
60	1.13170	458.56	2.2000	70	0.63700	467.28	2.1693	80	0.38149	476.05	2.1441	90	0.24074	484.85	2.1234
61	1.13520	459.45	2.2027	71	0.63888	468.19	2.1719	81	0.38260	476.98	2.1467	91	0.24142	485.79	2.1260
62	1.13860	460.34	2.2054	72	0.64077	469.10	2.1746	82	0.38371	477.91	2.1493	92	0.24211	486.73	2.1285
63	1.14200	461.24	2.2080	73	0.64266	470.01	2.1772	83	0.38482	478.83	2.1519	93	0.24280	487.68	2.1311
64	1.14550	462.13	2.2107	74	0.64455	470.92	2.1798	84	0.38593	479.76	2.1545	94	0.24349	488.63	2.1337
65	1.14890	463.03	2.2133	75	0.64643	471.84	2.1825	85	0.38703	480.69	2.1571	95	0.24418	489.58	2.1363
66	1.15230	463.93	2.2160	76	0.64832	472.75	2.1851	86	0.38814	481.62	2.1597	96	0.24487	490.52	2.1389
67	1.15580	464.83	2.2186	77	0.65021	473.67	2.1877	87	0.38925	482.56	2.1623	97	0.24556	491.48	2.1414
68	1.15920	465.73	2.2213	78	0.65210	474.58	2.1903	88	0.39036	483.49	2.1649	98	0.24625	492.43	2.1440
69	1.16260	466.63	2.2239	79	0.65398	475.50	2.1929	89	0.39147	484.43	2.1675	99	0.24693	493.38	2.1466
70	1.16610	467.53	2.2266	80	0.65587	476.42	2.1955	90	0.39257	485.37	2.1701	100	0.24762	494.34	2.1491
71	1.16950	468.44	2.2292	81	0.65775	477.35	2.1982	91	0.39368	486.31	2.1726	101	0.24831	495.29	2.1517

RS-100 SUPERHEAT PROPERTIES

Satn -60 °C [Dew Point 0.27646 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
72	1.17290	469.35	2.2318
73	1.17630	470.26	2.2345
74	1.17980	471.17	2.2371
75	1.18320	472.08	2.2397
76	1.18660	472.99	2.2423
77	1.19010	473.91	2.2449
78	1.19350	474.82	2.2476
79	1.19690	475.74	2.2502
80	1.20030	476.66	2.2528

Satn -50 °C [Dew Point 0.50496 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
82	0.65964	478.27	2.2008
83	0.66153	479.20	2.2034
84	0.66341	480.12	2.2060
85	0.66530	481.05	2.2086
86	0.66718	481.98	2.2111
87	0.66907	482.91	2.2137
88	0.67095	483.84	2.2163
89	0.67284	484.78	2.2189
90	0.67472	485.71	2.2215

Satn -40 °C [Dew Point 0.86541 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
92	0.39479	487.25	2.1752
93	0.39590	488.19	2.1778
94	0.39700	489.13	2.1804
95	0.39811	490.08	2.1829
96	0.39922	491.02	2.1855
97	0.40032	491.97	2.1881
98	0.40143	492.92	2.1906
99	0.40254	493.87	2.1932
100	0.40364	494.82	2.1957

Satn -30 °C [Dew Point 1.40520 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
102	0.24900	496.25	2.1543
103	0.24968	497.21	2.1568
104	0.25037	498.17	2.1594
105	0.25106	499.14	2.1619
106	0.25175	500.10	2.1645
107	0.25243	501.06	2.1670
108	0.25312	502.03	2.1695
109	0.25381	503.00	2.1721
110	0.25449	503.97	2.1746

RS-100 SUPERHEAT PROPERTIES

Satn -20 °C [Dew Point 2.1792 bar]				Satn -10 °C [Dew Point 3.2494 bar]				Satn 0 °C [Dew Point 4.6846 bar]				Satn 10 °C [Dew Point 6.56070 bar]			
Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
-20	0.10207	386.68	1.7621	-10	0.06957	392.26	1.7490	0	0.048736	397.52	1.7376	10	0.034906	402.37	1.7273
-19	0.10260	387.53	1.7654	-9	0.06994	393.16	1.7524	1	0.049012	398.47	1.7411	11	0.035119	403.37	1.7309
-18	0.10312	388.38	1.7688	-8	0.07031	394.06	1.7558	2	0.049286	399.41	1.7445	12	0.035330	404.37	1.7344
-17	0.10364	389.24	1.7721	-7	0.07068	394.95	1.7592	3	0.049558	400.35	1.7479	13	0.035540	405.37	1.7379
-16	0.10416	390.09	1.7755	-6	0.07105	395.84	1.7625	4	0.049829	401.29	1.7513	14	0.035748	406.36	1.7413
-15	0.10467	390.94	1.7788	-5	0.07141	396.73	1.7658	5	0.050098	402.23	1.7547	15	0.035954	407.35	1.7447
-14	0.10519	391.79	1.7821	-4	0.07177	397.62	1.7691	6	0.050366	403.16	1.7580	16	0.036159	408.33	1.7482
-13	0.10570	392.64	1.7853	-3	0.07214	398.51	1.7724	7	0.050632	404.10	1.7614	17	0.036363	409.32	1.7516
-12	0.10621	393.49	1.7886	-2	0.07250	399.40	1.7757	8	0.050897	405.03	1.7647	18	0.036566	410.30	1.7549
-11	0.10672	394.34	1.7918	-1	0.07286	400.29	1.7790	9	0.051161	405.96	1.7680	19	0.036768	411.27	1.7583
-10	0.10723	395.19	1.7951	0	0.07321	401.18	1.7822	10	0.051424	406.89	1.7713	20	0.036968	412.25	1.7616
-9	0.10774	396.04	1.7983	1	0.07357	402.06	1.7855	11	0.051685	407.81	1.7745	21	0.037167	413.22	1.7649
-8	0.10824	396.89	1.8015	2	0.07392	402.95	1.7887	12	0.051945	408.74	1.7778	22	0.037365	414.20	1.7682
-7	0.10875	397.74	1.8047	3	0.07428	403.84	1.7919	13	0.052204	409.66	1.7810	23	0.037562	415.17	1.7715
-6	0.10925	398.59	1.8079	4	0.07463	404.72	1.7951	14	0.052462	410.59	1.7843	24	0.037758	416.14	1.7748
-5	0.10975	399.44	1.8111	5	0.07498	405.61	1.7983	15	0.052719	411.51	1.7875	25	0.037953	417.11	1.7780
-4	0.11025	400.29	1.8142	6	0.07533	406.49	1.8015	16	0.052975	412.44	1.7907	26	0.038147	418.07	1.7813
-3	0.11075	401.14	1.8174	7	0.07568	407.37	1.8047	17	0.053230	413.36	1.7939	27	0.038341	419.04	1.7845
-2	0.11125	401.99	1.8205	8	0.07603	408.26	1.8078	18	0.053483	414.28	1.7970	28	0.038533	420.00	1.7877
-1	0.11174	402.84	1.8237	9	0.07638	409.14	1.8109	19	0.053736	415.20	1.8002	29	0.038724	420.96	1.7909
0	0.11224	403.70	1.8268	10	0.07672	410.03	1.8141	20	0.053989	416.12	1.8033	30	0.038915	421.93	1.7941
1	0.11273	404.55	1.8299	11	0.07707	410.91	1.8172	21	0.054240	417.04	1.8065	31	0.039105	422.89	1.7972
2	0.11322	405.40	1.8330	12	0.07741	411.80	1.8203	22	0.054490	417.96	1.8096	32	0.039294	423.85	1.8004
3	0.11372	406.25	1.8361	13	0.07775	412.68	1.8234	23	0.054740	418.88	1.8127	33	0.039482	424.81	1.8035
4	0.11421	407.10	1.8392	14	0.07810	413.57	1.8265	24	0.054988	419.80	1.8158	34	0.039670	425.77	1.8067
5	0.11470	407.96	1.8423	15	0.07844	414.45	1.8296	25	0.055236	420.72	1.8189	35	0.039856	426.73	1.8098
6	0.11519	408.81	1.8453	16	0.07878	415.34	1.8326	26	0.055484	421.64	1.8220	36	0.040043	427.69	1.8129
7	0.11567	409.67	1.8484	17	0.07912	416.22	1.8357	27	0.055730	422.56	1.8250	37	0.040228	428.64	1.8160
8	0.11616	410.52	1.8514	18	0.07946	417.11	1.8387	28	0.055976	423.48	1.8281	38	0.040413	429.60	1.8191
9	0.11665	411.38	1.8545	19	0.07980	417.99	1.8418	29	0.056221	424.40	1.8312	39	0.040597	430.56	1.8221
10	0.11713	412.23	1.8575	20	0.08013	418.88	1.8448	30	0.056465	425.32	1.8342	40	0.040780	431.51	1.8252
11	0.11762	413.09	1.8605	21	0.08047	419.77	1.8478	31	0.056709	426.24	1.8372	41	0.040963	432.47	1.8282
12	0.11810	413.95	1.8635	22	0.08081	420.66	1.8508	32	0.056952	427.16	1.8402	42	0.041145	433.43	1.8313
13	0.11858	414.81	1.8665	23	0.08114	421.54	1.8538	33	0.057194	428.08	1.8433	43	0.041327	434.38	1.8343
14	0.11906	415.67	1.8695	24	0.08148	422.43	1.8568	34	0.057436	429.00	1.8463	44	0.041508	435.34	1.8373
15	0.11955	416.53	1.8725	25	0.08181	423.32	1.8598	35	0.057677	429.93	1.8493	45	0.041688	436.29	1.8403
16	0.12003	417.39	1.8755	26	0.08214	424.21	1.8628	36	0.057918	430.85	1.8522	46	0.041868	437.25	1.8433
17	0.12051	418.25	1.8785	27	0.08248	425.10	1.8658	37	0.058158	431.77	1.8552	47	0.042048	438.21	1.8463
18	0.12098	419.11	1.8814	28	0.08281	425.99	1.8687	38	0.058397	432.69	1.8582	48	0.042227	439.16	1.8493
19	0.12146	419.98	1.8844	29	0.08314	426.88	1.8717	39	0.058636	433.61	1.8611	49	0.042405	440.12	1.8523
20	0.12194	420.84	1.8874	30	0.08347	427.78	1.8746	40	0.058874	434.54	1.8641	50	0.042583	441.07	1.8552
21	0.12242	421.71	1.8903	31	0.08380	428.67	1.8776	41	0.059112	435.46	1.8670	51	0.042760	442.03	1.8582
22	0.12289	422.57	1.8932	32	0.08413	429.56	1.8805	42	0.059349	436.38	1.8700	52	0.042937	442.99	1.8611
23	0.12337	423.44	1.8962	33	0.08446	430.46	1.8834	43	0.059586	437.31	1.8729	53	0.043114	443.94	1.8641

RS-100 SUPERHEAT PROPERTIES

Satn -60 °C [Dew Point 0.27646 bar]				Satn -50 °C [Dew Point 0.50496 bar]				Satn -40 °C [Dew Point 0.86541 bar]				Satn -30 °C [Dew Point 1.40520 bar]			
Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
24	0.12384	424.31	1.8991	34	0.08479	431.35	1.8864	44	0.059822	438.23	1.8758	54	0.043290	444.90	1.8670
25	0.12432	425.18	1.9020	35	0.08512	432.25	1.8893	45	0.060058	439.16	1.8787	55	0.043465	445.86	1.8699
26	0.12479	426.05	1.9049	36	0.08544	433.15	1.8922	46	0.060293	440.08	1.8816	56	0.043640	446.82	1.8728
27	0.12527	426.92	1.9078	37	0.08577	434.04	1.8951	47	0.060528	441.01	1.8845	57	0.043815	447.77	1.8758
28	0.12574	427.79	1.9107	38	0.08610	434.94	1.8980	48	0.060762	441.94	1.8874	58	0.043989	448.73	1.8787
29	0.12621	428.66	1.9136	39	0.08642	435.84	1.9008	49	0.060996	442.86	1.8903	59	0.044163	449.69	1.8815
30	0.12668	429.54	1.9165	40	0.08675	436.74	1.9037	50	0.061230	443.79	1.8932	60	0.044337	450.65	1.8844
31	0.12715	430.41	1.9194	41	0.08707	437.64	1.9066	51	0.061463	444.72	1.8961	61	0.044510	451.61	1.8873
32	0.12762	431.29	1.9223	42	0.08740	438.54	1.9095	52	0.061696	445.65	1.8989	62	0.044682	452.57	1.8902
33	0.12809	432.16	1.9251	43	0.08772	439.45	1.9123	53	0.061928	446.58	1.9018	63	0.044855	453.53	1.8930
34	0.12856	433.04	1.9280	44	0.08804	440.35	1.9152	54	0.062160	447.51	1.9046	64	0.045027	454.49	1.8959
35	0.12903	433.92	1.9309	45	0.08837	441.25	1.9180	55	0.062391	448.44	1.9075	65	0.045198	455.45	1.8987
36	0.12950	434.80	1.9337	46	0.08869	442.16	1.9209	56	0.062622	449.37	1.9103	66	0.045369	456.41	1.9016
37	0.12997	435.68	1.9366	47	0.08901	443.06	1.9237	57	0.062853	450.31	1.9131	67	0.045540	457.38	1.9044
38	0.13044	436.56	1.9394	48	0.08933	443.97	1.9265	58	0.063083	451.24	1.9160	68	0.045711	458.34	1.9072
39	0.13090	437.45	1.9422	49	0.08965	444.88	1.9294	59	0.063313	452.18	1.9188	69	0.045881	459.30	1.9101
40	0.13137	438.33	1.9451	50	0.08998	445.79	1.9322	60	0.063542	453.11	1.9216	70	0.046051	460.27	1.9129
41	0.13184	439.22	1.9479	51	0.09030	446.70	1.9350	61	0.063772	454.05	1.9244	71	0.046221	461.23	1.9157
42	0.13230	440.10	1.9507	52	0.09062	447.61	1.9378	62	0.064001	454.99	1.9272	72	0.046390	462.20	1.9185
43	0.13277	440.99	1.9535	53	0.09094	448.52	1.9406	63	0.064229	455.92	1.9300	73	0.046559	463.16	1.9213
44	0.13323	441.88	1.9563	54	0.09126	449.43	1.9434	64	0.064457	456.86	1.9328	74	0.046727	464.13	1.9241
45	0.13370	442.77	1.9591	55	0.09158	450.35	1.9462	65	0.064685	457.80	1.9356	75	0.046896	465.10	1.9268
46	0.13416	443.66	1.9619	56	0.09189	451.26	1.9490	66	0.064913	458.74	1.9383	76	0.047064	466.07	1.9296
47	0.13462	444.55	1.9647	57	0.09221	452.18	1.9517	67	0.065140	459.69	1.9411	77	0.047232	467.04	1.9324
48	0.13509	445.45	1.9675	58	0.09253	453.10	1.9545	68	0.065367	460.63	1.9439	78	0.047399	468.01	1.9352
49	0.13555	446.34	1.9703	59	0.09285	454.02	1.9573	69	0.065594	461.57	1.9466	79	0.047566	468.98	1.9379
50	0.13601	447.24	1.9731	60	0.09317	454.94	1.9600	70	0.065820	462.52	1.9494	80	0.047733	469.95	1.9407
51	0.13647	448.13	1.9758	61	0.09348	455.86	1.9628	71	0.066046	463.46	1.9522	81	0.047900	470.92	1.9434
52	0.13694	449.03	1.9786	62	0.09380	456.78	1.9656	72	0.066272	464.41	1.9549	82	0.048066	471.89	1.9462
53	0.13740	449.93	1.9814	63	0.09412	457.70	1.9683	73	0.066497	465.35	1.9576	83	0.048232	472.87	1.9489
54	0.13786	450.83	1.9841	64	0.09443	458.62	1.9710	74	0.066722	466.30	1.9604	84	0.048398	473.84	1.9516
55	0.13832	451.73	1.9869	65	0.09475	459.55	1.9738	75	0.066947	467.25	1.9631	85	0.048564	474.82	1.9544
56	0.13878	452.64	1.9896	66	0.09506	460.47	1.9765	76	0.067172	468.20	1.9658	86	0.048729	475.79	1.9571
57	0.13924	453.54	1.9924	67	0.09538	461.40	1.9792	77	0.067396	469.15	1.9686	87	0.048894	476.77	1.9598
58	0.13970	454.45	1.9951	68	0.09569	462.33	1.9820	78	0.067620	470.11	1.9713	88	0.049059	477.75	1.9625
59	0.14016	455.35	1.9978	69	0.09601	463.26	1.9847	79	0.067844	471.06	1.9740	89	0.049224	478.73	1.9652
60	0.14062	456.26	2.0006	70	0.09632	464.19	1.9874	80	0.068068	472.01	1.9767	90	0.049388	479.71	1.9679
61	0.14108	457.17	2.0033	71	0.09664	465.12	1.9901	81	0.068291	472.97	1.9794	91	0.049553	480.69	1.9706
62	0.14153	458.08	2.0060	72	0.09695	466.05	1.9928	82	0.068514	473.93	1.9821	92	0.049717	481.67	1.9733
63	0.14199	458.99	2.0087	73	0.09726	466.99	1.9955	83	0.068737	474.88	1.9848	93	0.049881	482.65	1.9760
64	0.14245	459.91	2.0114	74	0.09758	467.92	1.9982	84	0.068960	475.84	1.9875	94	0.050044	483.63	1.9787
65	0.14291	460.82	2.0141	75	0.09789	468.86	2.0009	85	0.069182	476.80	1.9901	95	0.050208	484.62	1.9814
66	0.14337	461.74	2.0169	76	0.09820	469.80	2.0036	86	0.069405	477.76	1.9928	96	0.050371	485.60	1.9840
67	0.14382	462.65	2.0196	77	0.09852	470.73	2.0063	87	0.069627	478.72	1.9955	97	0.050534	486.59	1.9867

RS-100 SUPERHEAT PROPERTIES

Satn -60 °C [Dew Point 0.27646 bar]				Satn -50 °C [Dew Point 0.50496 bar]				Satn -40 °C [Dew Point 0.86541 bar]				Satn -30 °C [Dew Point 1.40520 bar]			
Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
68	0.14428	463.57	2.0222	78	0.09883	471.67	2.0090	88	0.069848	479.69	1.9982	98	0.050696	487.58	1.9894
69	0.14474	464.49	2.0249	79	0.09914	472.61	2.0116	89	0.070070	480.65	2.0008	99	0.050859	488.56	1.9920
70	0.14519	465.41	2.0276	80	0.09945	473.56	2.0143	90	0.070291	481.61	2.0035	100	0.051021	489.55	1.9947
71	0.14565	466.33	2.0303	81	0.09976	474.50	2.0170	91	0.070513	482.58	2.0061	101	0.051184	490.54	1.9973
72	0.14610	467.26	2.0330	82	0.10008	475.44	2.0196	92	0.070733	483.55	2.0088	102	0.051346	491.53	2.0000
73	0.14656	468.18	2.0357	83	0.10039	476.39	2.0223	93	0.070954	484.52	2.0114	103	0.051508	492.53	2.0026
74	0.14701	469.11	2.0383	84	0.10070	477.34	2.0250	94	0.071175	485.48	2.0141	104	0.051669	493.52	2.0052
75	0.14747	470.03	2.0410	85	0.10101	478.29	2.0276	95	0.071395	486.46	2.0167	105	0.051831	494.51	2.0079
76	0.14792	470.96	2.0437	86	0.10132	479.23	2.0303	96	0.071615	487.43	2.0194	106	0.051992	495.51	2.0105
77	0.14838	471.89	2.0463	87	0.10163	480.19	2.0329	97	0.071835	488.40	2.0220	107	0.052153	496.51	2.0131
78	0.14883	472.82	2.0490	88	0.10194	481.14	2.0355	98	0.072055	489.37	2.0246	108	0.052314	497.50	2.0158
79	0.14929	473.75	2.0516	89	0.10225	482.09	2.0382	99	0.072275	490.35	2.0272	109	0.052475	498.50	2.0184
80	0.14974	474.69	2.0543	90	0.10256	483.04	2.0408	100	0.072494	491.32	2.0299	110	0.052635	499.50	2.0210
81	0.15019	475.62	2.0569	91	0.10287	484.00	2.0434	101	0.072713	492.30	2.0325	111	0.052796	500.50	2.0236
82	0.15065	476.56	2.0596	92	0.10318	484.96	2.0461	102	0.072932	493.28	2.0351	112	0.052956	501.50	2.0262
83	0.15110	477.50	2.0622	93	0.10349	485.91	2.0487	103	0.073151	494.26	2.0377	113	0.053116	502.50	2.0288
84	0.15155	478.43	2.0648	94	0.10380	486.87	2.0513	104	0.073370	495.24	2.0403	114	0.053276	503.51	2.0314
85	0.15201	479.38	2.0675	95	0.10410	487.83	2.0539	105	0.073588	496.22	2.0429	115	0.053436	504.51	2.0340
86	0.15246	480.32	2.0701	96	0.10441	488.80	2.0565	106	0.073807	497.21	2.0455	116	0.053596	505.52	2.0366
87	0.15291	481.26	2.0727	97	0.10472	489.76	2.0591	107	0.074025	498.19	2.0481	117	0.053755	506.52	2.0391
88	0.15336	482.20	2.0753	98	0.10503	490.72	2.0617	108	0.074243	499.18	2.0507	118	0.053915	507.53	2.0417
89	0.15382	483.15	2.0779	99	0.10534	491.69	2.0643	109	0.074461	500.16	2.0533	119	0.054074	508.54	2.0443
90	0.15427	484.10	2.0805	100	0.10565	492.66	2.0669	110	0.074679	501.15	2.0559	120	0.054233	509.55	2.0469
91	0.15472	485.04	2.0831	101	0.10595	493.62	2.0695	111	0.074896	502.14	2.0584	121	0.054392	510.56	2.0494
92	0.15517	485.99	2.0857	102	0.10626	494.59	2.0721	112	0.075114	503.13	2.0610	122	0.054551	511.57	2.0520
93	0.15562	486.94	2.0883	103	0.10657	495.56	2.0747	113	0.075331	504.12	2.0636	123	0.054710	512.59	2.0546
94	0.15607	487.90	2.0909	104	0.10688	496.54	2.0773	114	0.075548	505.11	2.0661	124	0.054868	513.60	2.0571
95	0.15652	488.85	2.0935	105	0.10718	497.51	2.0798	115	0.075765	506.11	2.0687	125	0.055026	514.62	2.0597
96	0.15697	489.80	2.0961	106	0.10749	498.48	2.0824	116	0.075982	507.10	2.0713	126	0.055185	515.63	2.0622
97	0.15743	490.76	2.0987	107	0.10780	499.46	2.0850	117	0.076199	508.10	2.0738	127	0.055343	516.65	2.0648
98	0.15788	491.72	2.1013	108	0.10810	500.44	2.0875	118	0.076415	509.10	2.0764	128	0.055501	517.67	2.0673
99	0.15833	492.68	2.1039	109	0.10841	501.41	2.0901	119	0.076632	510.09	2.0789	129	0.055659	518.69	2.0699
100	0.15878	493.64	2.1065	110	0.10872	502.39	2.0927	120	0.076848	511.09	2.0815	130	0.055817	519.71	2.0724
101	0.15923	494.60	2.1090	111	0.10902	503.37	2.0952	121	0.077064	512.10	2.0840	131	0.055974	520.73	2.0749
102	0.15968	495.56	2.1116	112	0.10933	504.36	2.0978	122	0.077280	513.10	2.0866	132	0.056132	521.76	2.0775
103	0.16012	496.52	2.1142	113	0.10963	505.34	2.1003	123	0.077496	514.10	2.0891	133	0.056289	522.78	2.0800
104	0.16057	497.49	2.1167	114	0.10994	506.32	2.1029	124	0.077712	515.11	2.0916	134	0.056447	523.81	2.0825
105	0.16102	498.46	2.1193	115	0.11024	507.31	2.1054	125	0.077928	516.11	2.0942	135	0.056604	524.83	2.0850
106	0.16147	499.42	2.1218	116	0.11055	508.30	2.1080	126	0.078143	517.12	2.0967	136	0.056761	525.86	2.0875
107	0.16192	500.39	2.1244	117	0.11086	509.29	2.1105	127	0.078359	518.13	2.0992	137	0.056918	526.89	2.0900
108	0.16237	501.37	2.1269	118	0.11116	510.28	2.1130	128	0.078574	519.14	2.1017	138	0.057075	527.92	2.0926
109	0.16282	502.34	2.1295	119	0.11147	511.27	2.1156	129	0.078789	520.15	2.1042	139	0.057231	528.95	2.0951
110	0.16327	503.31	2.1320	120	0.11177	512.26	2.1181	130	0.079004	521.16	2.1068	140	0.057388	529.98	2.0976
111	0.16372	504.29	2.1346	121	0.11208	513.25	2.1206	131	0.079219	522.17	2.1093	141	0.057545	531.02	2.1001

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Satn -60 °C [Dew Point 0.27646 bar]

Temp (°C)	Volume (m ³ /kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
112	0.16416	505.26	2.1371
113	0.16461	506.24	2.1397
114	0.16506	507.22	2.1422
115	0.16551	508.20	2.1447
116	0.16595	509.18	2.1472
117	0.16640	510.16	2.1498
118	0.16685	511.15	2.1523
119	0.16730	512.13	2.1548
120	0.16774	513.12	2.1573

Satn -50 °C [Dew Point 0.50496 bar]

Temp (°C)	Volume (m ³ /kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
122	0.11238	514.25	2.1231
123	0.11268	515.24	2.1257
124	0.11299	516.24	2.1282
125	0.11329	517.24	2.1307
126	0.11360	518.24	2.1332
127	0.11390	519.24	2.1357
128	0.11421	520.25	2.1382
129	0.11451	521.25	2.1407
130	0.11481	522.25	2.1432

Satn -40 °C [Dew Point 0.86541 bar]

Temp (°C)	Volume (m ³ /kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
132	0.079434	523.19	2.1118
133	0.079649	524.20	2.1143
134	0.079863	525.22	2.1168
135	0.080078	526.24	2.1193
136	0.080292	527.26	2.1218
137	0.080506	528.28	2.1243
138	0.080720	529.30	2.1267
139	0.080935	530.32	2.1292
140	0.081148	531.35	2.1317

Satn -30 °C [Dew Point 1.40520 bar]

Temp (°C)	Volume (m ³ /kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
142	0.057701	532.05	2.1026
143	0.057857	533.09	2.1050
144	0.058014	534.13	2.1075
145	0.058170	535.16	2.1100
146	0.058326	536.20	2.1125
147	0.058482	537.24	2.1150
148	0.058637	538.29	2.1175
149	0.058793	539.33	2.1199
150	0.058949	540.37	2.1224

RS-100 SUPERHEAT PROPERTIES

Satn 20 °C [Dew Point 8.9614 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
20	0.025433	406.70	1.7176
21	0.025604	407.77	1.7213
22	0.025773	408.84	1.7249
23	0.025940	409.89	1.7284
24	0.026106	410.95	1.7320
25	0.026271	412.00	1.7355
26	0.026435	413.04	1.7390
27	0.026597	414.09	1.7425
28	0.026758	415.12	1.7460
29	0.026917	416.16	1.7494
30	0.027076	417.19	1.7528
31	0.027233	418.22	1.7562
32	0.027390	419.24	1.7596
33	0.027545	420.27	1.7629
34	0.027699	421.29	1.7662
35	0.027853	422.31	1.7695
36	0.028006	423.33	1.7728
37	0.028157	424.34	1.7761
38	0.028308	425.35	1.7794
39	0.028458	426.36	1.7826
40	0.028607	427.37	1.7859
41	0.028756	428.38	1.7891
42	0.028903	429.39	1.7923
43	0.029050	430.39	1.7954
44	0.029196	431.40	1.7986
45	0.029342	432.40	1.8018
46	0.029487	433.40	1.8049
47	0.029631	434.40	1.8080
48	0.029774	435.40	1.8112
49	0.029917	436.40	1.8143
50	0.030060	437.40	1.8174
51	0.030201	438.40	1.8204
52	0.030342	439.39	1.8235
53	0.030483	440.39	1.8266
54	0.030623	441.38	1.8296
55	0.030763	442.38	1.8327
56	0.030902	443.37	1.8357
57	0.031040	444.37	1.8387
58	0.031178	445.36	1.8417
59	0.031316	446.36	1.8447
60	0.031453	447.35	1.8477
61	0.031589	448.34	1.8507
62	0.031725	449.33	1.8536
63	0.031861	450.33	1.8566

Satn 30 °C [Dew Point 11.980 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
30	0.01876	410.36	1.7078
31	0.01890	411.51	1.7116
32	0.01904	412.66	1.7154
33	0.01918	413.80	1.7191
34	0.01932	414.93	1.7228
35	0.01946	416.06	1.7265
36	0.01959	417.17	1.7301
37	0.01972	418.29	1.7337
38	0.01986	419.40	1.7373
39	0.01999	420.50	1.7408
40	0.02012	421.60	1.7443
41	0.02025	422.70	1.7478
42	0.02038	423.79	1.7513
43	0.02050	424.87	1.7547
44	0.02063	425.96	1.7581
45	0.02075	427.04	1.7615
46	0.02088	428.11	1.7649
47	0.02100	429.18	1.7683
48	0.02112	430.25	1.7716
49	0.02124	431.32	1.7749
50	0.02136	432.39	1.7782
51	0.02148	433.45	1.7815
52	0.02160	434.51	1.7848
53	0.02172	435.57	1.7880
54	0.02184	436.62	1.7912
55	0.02196	437.68	1.7945
56	0.02207	438.73	1.7977
57	0.02219	439.78	1.8008
58	0.02230	440.83	1.8040
59	0.02242	441.87	1.8072
60	0.02253	442.92	1.8103
61	0.02264	443.96	1.8134
62	0.02276	445.00	1.8166
63	0.02287	446.04	1.8197
64	0.02298	447.08	1.8227
65	0.02309	448.12	1.8258
66	0.02320	449.16	1.8289
67	0.02331	450.20	1.8319
68	0.02342	451.23	1.8350
69	0.02353	452.27	1.8380
70	0.02364	453.30	1.8410
71	0.02375	454.34	1.8440
72	0.02385	455.37	1.8470
73	0.02396	456.40	1.8500

Satn 40 °C [Dew Point 15.722 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
40	0.013931	413.12	1.6972
41	0.014056	414.39	1.7012
42	0.014179	415.64	1.7052
43	0.014300	416.89	1.7092
44	0.014419	418.13	1.7131
45	0.014537	419.35	1.7169
46	0.014653	420.57	1.7208
47	0.014767	421.77	1.7245
48	0.014880	422.97	1.7283
49	0.014992	424.16	1.7320
50	0.015102	425.35	1.7356
51	0.015211	426.53	1.7393
52	0.015319	427.70	1.7429
53	0.015426	428.86	1.7465
54	0.015532	430.02	1.7500
55	0.015637	431.17	1.7535
56	0.015741	432.32	1.7570
57	0.015844	433.47	1.7605
58	0.015946	434.60	1.7639
59	0.016047	435.74	1.7674
60	0.016148	436.87	1.7708
61	0.016247	438.00	1.7741
62	0.016346	439.12	1.7775
63	0.016444	440.24	1.7808
64	0.016541	441.36	1.7841
65	0.016638	442.47	1.7874
66	0.016734	443.58	1.7907
67	0.016829	444.69	1.7940
68	0.016924	445.79	1.7972
69	0.017018	446.89	1.8004
70	0.017111	447.99	1.8037
71	0.017204	449.09	1.8068
72	0.017297	450.19	1.8100
73	0.017389	451.28	1.8132
74	0.017480	452.37	1.8163
75	0.017571	453.46	1.8195
76	0.017661	454.55	1.8226
77	0.017751	455.63	1.8257
78	0.017840	456.72	1.8288
79	0.017929	457.80	1.8319
80	0.018017	458.88	1.8349
81	0.018105	459.96	1.8380
82	0.018193	461.04	1.8410
83	0.018280	462.12	1.8441

Satn 50 °C [Dew Point 20.312 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
50	0.010348	414.63	1.6846
51	0.010464	416.07	1.6891
52	0.010576	417.50	1.6935
53	0.010686	418.90	1.6978
54	0.010794	420.28	1.7020
55	0.010900	421.64	1.7062
56	0.011004	422.99	1.7103
57	0.011106	424.32	1.7143
58	0.011206	425.64	1.7183
59	0.011305	426.95	1.7222
60	0.011402	428.24	1.7261
61	0.011498	429.53	1.7300
62	0.011593	430.80	1.7338
63	0.011686	432.07	1.7376
64	0.011778	433.32	1.7413
65	0.011869	434.57	1.7450
66	0.011959	435.81	1.7487
67	0.012048	437.04	1.7523
68	0.012136	438.27	1.7559
69	0.012223	439.49	1.7594
70	0.012309	440.70	1.7630
71	0.012394	441.90	1.7665
72	0.012478	443.10	1.7700
73	0.012562	444.30	1.7734
74	0.012645	445.49	1.7769
75	0.012727	446.67	1.7803
76	0.012808	447.85	1.7836
77	0.012889	449.03	1.7870
78	0.012969	450.20	1.7904
79	0.013048	451.37	1.7937
80	0.013127	452.53	1.7970
81	0.013205	453.69	1.8003
82	0.013283	454.85	1.8035
83	0.013360	456.00	1.8068
84	0.013436	457.15	1.8100
85	0.013513	458.30	1.8132
86	0.013588	459.45	1.8164
87	0.013663	460.59	1.8196
88	0.013738	461.73	1.8227
89	0.013812	462.87	1.8259
90	0.013886	464.00	1.8290
91	0.013959	465.14	1.8321
92	0.014032	466.27	1.8352
93	0.014104	467.40	1.8383

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Satn 20 °C [Dew Point 8.9614 bar]				Satn 30 °C [Dew Point 11.980 bar]				Satn 40 °C [Dew Point 15.722 bar]				Satn 50 °C [Dew Point 20.312 bar]			
Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
64	0.031997	451.32	1.8595	74	0.02407	457.44	1.8530	84	0.018367	463.20	1.8471	94	0.014176	468.53	1.8414
65	0.032131	452.31	1.8625	75	0.02418	458.47	1.8560	85	0.018453	464.27	1.8501	95	0.014248	469.65	1.8445
66	0.032266	453.30	1.8654	76	0.02428	459.50	1.8589	86	0.018539	465.35	1.8531	96	0.014319	470.78	1.8475
67	0.032400	454.30	1.8683	77	0.02439	460.53	1.8619	87	0.018625	466.42	1.8561	97	0.014390	471.90	1.8505
68	0.032534	455.29	1.8712	78	0.02449	461.56	1.8648	88	0.018710	467.49	1.8590	98	0.014461	473.02	1.8536
69	0.032667	456.28	1.8741	79	0.02460	462.59	1.8678	89	0.018795	468.57	1.8620	99	0.014531	474.14	1.8566
70	0.032800	457.27	1.8770	80	0.02470	463.62	1.8707	90	0.018880	469.64	1.8650	100	0.014601	475.26	1.8596
71	0.032932	458.27	1.8799	81	0.02481	464.65	1.8736	91	0.018964	470.71	1.8679	101	0.014670	476.38	1.8626
72	0.033065	459.26	1.8828	82	0.02491	465.68	1.8765	92	0.019048	471.78	1.8708	102	0.014739	477.49	1.8656
73	0.033196	460.25	1.8857	83	0.02501	466.71	1.8794	93	0.019132	472.85	1.8738	103	0.014808	478.61	1.8685
74	0.033328	461.25	1.8886	84	0.02512	467.74	1.8823	94	0.019215	473.92	1.8767	104	0.014877	479.72	1.8715
75	0.033459	462.24	1.8914	85	0.02522	468.77	1.8851	95	0.019298	474.98	1.8796	105	0.014945	480.83	1.8744
76	0.033590	463.24	1.8943	86	0.02532	469.80	1.8880	96	0.019381	476.05	1.8825	106	0.015013	481.94	1.8774
77	0.033721	464.23	1.8971	87	0.02543	470.83	1.8909	97	0.019463	477.12	1.8854	107	0.015081	483.06	1.8803
78	0.033851	465.22	1.8999	88	0.02553	471.86	1.8937	98	0.019545	478.19	1.8883	108	0.015148	484.17	1.8832
79	0.033981	466.22	1.9028	89	0.02563	472.89	1.8966	99	0.019627	479.26	1.8911	109	0.015216	485.27	1.8861
80	0.034110	467.21	1.9056	90	0.02573	473.91	1.8994	100	0.019709	480.32	1.8940	110	0.015283	486.38	1.8890
81	0.034239	468.21	1.9084	91	0.02583	474.94	1.9022	101	0.019790	481.39	1.8968	111	0.015349	487.49	1.8919
82	0.034368	469.21	1.9112	92	0.02593	475.97	1.9051	102	0.019871	482.46	1.8997	112	0.015416	488.60	1.8948
83	0.034497	470.20	1.9140	93	0.02604	477.00	1.9079	103	0.019952	483.52	1.9025	113	0.015482	489.71	1.8976
84	0.034626	471.20	1.9168	94	0.02614	478.03	1.9107	104	0.020032	484.59	1.9054	114	0.015548	490.81	1.9005
85	0.034754	472.20	1.9196	95	0.02624	479.06	1.9135	105	0.020113	485.65	1.9082	115	0.015613	491.92	1.9034
86	0.034882	473.20	1.9224	96	0.02634	480.09	1.9163	106	0.020193	486.72	1.9110	116	0.015679	493.02	1.9062
87	0.035009	474.19	1.9252	97	0.02644	481.13	1.9191	107	0.020272	487.79	1.9138	117	0.015744	494.13	1.9090
88	0.035137	475.19	1.9279	98	0.02654	482.16	1.9219	108	0.020352	488.85	1.9166	118	0.015809	495.23	1.9119
89	0.035264	476.19	1.9307	99	0.02663	483.19	1.9246	109	0.020431	489.92	1.9194	119	0.015874	496.33	1.9147
90	0.035391	477.19	1.9335	100	0.02673	484.22	1.9274	110	0.020510	490.98	1.9222	120	0.015938	497.44	1.9175
91	0.035517	478.19	1.9362	101	0.02683	485.25	1.9302	111	0.020589	492.05	1.9250	121	0.016002	498.54	1.9203
92	0.035644	479.20	1.9390	102	0.02693	486.28	1.9329	112	0.020668	493.12	1.9277	122	0.016067	499.65	1.9231
93	0.035770	480.20	1.9417	103	0.02703	487.32	1.9357	113	0.020746	494.18	1.9305	123	0.016130	500.75	1.9259
94	0.035896	481.20	1.9444	104	0.02713	488.35	1.9384	114	0.020825	495.25	1.9333	124	0.016194	501.85	1.9287
95	0.036021	482.20	1.9472	105	0.02723	489.38	1.9412	115	0.020903	496.32	1.9360	125	0.016258	502.95	1.9314
96	0.036147	483.21	1.9499	106	0.02732	490.42	1.9439	116	0.020981	497.38	1.9388	126	0.016321	504.06	1.9342
97	0.036272	484.21	1.9526	107	0.02742	491.45	1.9466	117	0.021058	498.45	1.9415	127	0.016384	505.16	1.9370
98	0.036397	485.22	1.9553	108	0.02752	492.49	1.9493	118	0.021136	499.52	1.9442	128	0.016447	506.26	1.9397
99	0.036522	486.23	1.9580	109	0.02761	493.52	1.9520	119	0.021213	500.58	1.9470	129	0.016510	507.36	1.9425
100	0.036646	487.23	1.9607	110	0.02771	494.56	1.9548	120	0.021290	501.65	1.9497	130	0.016572	508.47	1.9452
101	0.036771	488.24	1.9634	111	0.02781	495.60	1.9575	121	0.021367	502.72	1.9524	131	0.016635	509.57	1.9479
102	0.036895	489.25	1.9661	112	0.02790	496.63	1.9602	122	0.021444	503.79	1.9551	132	0.016697	510.67	1.9506
103	0.037019	490.26	1.9688	113	0.02800	497.67	1.9628	123	0.021520	504.86	1.9578	133	0.016759	511.77	1.9534
104	0.037143	491.27	1.9715	114	0.02810	498.71	1.9655	124	0.021597	505.93	1.9605	134	0.016821	512.88	1.9561
105	0.037266	492.28	1.9742	115	0.02819	499.75	1.9682	125	0.021673	507.00	1.9632	135	0.016883	513.98	1.9588
106	0.037390	493.29	1.9768	116	0.02829	500.79	1.9709	126	0.021749	508.07	1.9659	136	0.016944	515.08	1.9615
107	0.037513	494.30	1.9795	117	0.02838	501.83	1.9736	127	0.021825	509.14	1.9685	137	0.017006	516.19	1.9642

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Satn 20 °C [Dew Point 8.9614 bar]				Satn 30 °C [Dew Point 11.980 bar]				Satn 40 °C [Dew Point 15.722 bar]				Satn 50 °C [Dew Point 20.312 bar]			
Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
108	0.037636	495.32	1.9822	118	0.02848	502.87	1.9762	128	0.021900	510.21	1.9712	138	0.017067	517.29	1.9669
109	0.037759	496.33	1.9848	119	0.02857	503.91	1.9789	129	0.021976	511.28	1.9739	139	0.017128	518.39	1.9695
110	0.037881	497.34	1.9875	120	0.02867	504.96	1.9815	130	0.022051	512.35	1.9766	140	0.017189	519.50	1.9722
111	0.038004	498.36	1.9901	121	0.02876	506.00	1.9842	131	0.022126	513.43	1.9792	141	0.017250	520.60	1.9749
112	0.038126	499.38	1.9928	122	0.02886	507.04	1.9868	132	0.022202	514.50	1.9819	142	0.017311	521.71	1.9776
113	0.038248	500.39	1.9954	123	0.02895	508.09	1.9895	133	0.022277	515.57	1.9845	143	0.017371	522.81	1.9802
114	0.038370	501.41	1.9980	124	0.02905	509.13	1.9921	134	0.022351	516.65	1.9871	144	0.017432	523.92	1.9829
115	0.038492	502.43	2.0007	125	0.02914	510.18	1.9947	135	0.022426	517.72	1.9898	145	0.017492	525.02	1.9855
116	0.038614	503.45	2.0033	126	0.02924	511.22	1.9974	136	0.022500	518.80	1.9924	146	0.017552	526.13	1.9881
117	0.038735	504.47	2.0059	127	0.02933	512.27	2.0000	137	0.022575	519.87	1.9950	147	0.017612	527.23	1.9908
118	0.038857	505.49	2.0085	128	0.02942	513.32	2.0026	138	0.022649	520.95	1.9977	148	0.017672	528.34	1.9934
119	0.038978	506.52	2.0111	129	0.02952	514.37	2.0052	139	0.022723	522.02	2.0003	149	0.017732	529.45	1.9960
120	0.039099	507.54	2.0137	130	0.02961	515.42	2.0078	140	0.022797	523.10	2.0029	150	0.017791	530.55	1.9987
121	0.039220	508.57	2.0163	131	0.02971	516.47	2.0104	141	0.022871	524.18	2.0055	151	0.017851	531.66	2.0013
122	0.039340	509.59	2.0189	132	0.02980	517.52	2.0130	142	0.022945	525.26	2.0081	152	0.017910	532.77	2.0039
123	0.039461	510.62	2.0215	133	0.02989	518.57	2.0156	143	0.023018	526.34	2.0107	153	0.017970	533.88	2.0065
124	0.039581	511.64	2.0241	134	0.02999	519.63	2.0182	144	0.023092	527.42	2.0133	154	0.018029	534.99	2.0091
125	0.039702	512.67	2.0267	135	0.03008	520.68	2.0208	145	0.023165	528.50	2.0159	155	0.018088	536.10	2.0117
126	0.039822	513.70	2.0293	136	0.03017	521.73	2.0234	146	0.023238	529.58	2.0185	156	0.018147	537.21	2.0143
127	0.039942	514.73	2.0319	137	0.03026	522.79	2.0259	147	0.023311	530.66	2.0210	157	0.018205	538.32	2.0169
128	0.040062	515.76	2.0344	138	0.03036	523.85	2.0285	148	0.023384	531.75	2.0236	158	0.018264	539.43	2.0194
129	0.040182	516.80	2.0370	139	0.03045	524.90	2.0311	149	0.023457	532.83	2.0262	159	0.018323	540.54	2.0220
130	0.040301	517.83	2.0396	140	0.03054	525.96	2.0336	150	0.023530	533.91	2.0287	160	0.018381	541.65	2.0246
131	0.040421	518.86	2.0421	141	0.03063	527.02	2.0362	151	0.023602	535.00	2.0313	161	0.018440	542.77	2.0272
132	0.040540	519.90	2.0447	142	0.03072	528.08	2.0388	152	0.023675	536.08	2.0339	162	0.018498	543.88	2.0297
133	0.040659	520.94	2.0473	143	0.03082	529.14	2.0413	153	0.023747	537.17	2.0364	163	0.018556	544.99	2.0323
134	0.040779	521.97	2.0498	144	0.03091	530.20	2.0439	154	0.023820	538.26	2.0390	164	0.018614	546.11	2.0348
135	0.040898	523.01	2.0524	145	0.03100	531.26	2.0464	155	0.023892	539.35	2.0415	165	0.018672	547.22	2.0374
136	0.041016	524.05	2.0549	146	0.03109	532.33	2.0489	156	0.023964	540.43	2.0440	166	0.018730	548.34	2.0399
137	0.041135	525.09	2.0574	147	0.03118	533.39	2.0515	157	0.024036	541.52	2.0466	167	0.018788	549.46	2.0425
138	0.041254	526.13	2.0600	148	0.03127	534.46	2.0540	158	0.024108	542.61	2.0491	168	0.018845	550.57	2.0450
139	0.041372	527.17	2.0625	149	0.03137	535.52	2.0565	159	0.024180	543.71	2.0516	169	0.018903	551.69	2.0475
140	0.041491	528.22	2.0650	150	0.03146	536.59	2.0591	160	0.024251	544.80	2.0542	170	0.018960	552.81	2.0500
141	0.041609	529.26	2.0676	151	0.03155	537.66	2.0616	161	0.024323	545.89	2.0567	171	0.019018	553.93	2.0526
142	0.041727	530.31	2.0701	152	0.03164	538.73	2.0641	162	0.024394	546.98	2.0592	172	0.019075	555.05	2.0551
143	0.041845	531.35	2.0726	153	0.03173	539.80	2.0666	163	0.024466	548.08	2.0617	173	0.019132	556.17	2.0576
144	0.041963	532.40	2.0751	154	0.03182	540.87	2.0691	164	0.024537	549.17	2.0642	174	0.019189	557.29	2.0601
145	0.042081	533.45	2.0776	155	0.03191	541.94	2.0716	165	0.024608	550.27	2.0667	175	0.019246	558.41	2.0626
146	0.042199	534.50	2.0801	156	0.03200	543.01	2.0741	166	0.024679	551.37	2.0692	176	0.019303	559.53	2.0651
147	0.042317	535.55	2.0826	157	0.03209	544.08	2.0766	167	0.024750	552.46	2.0717	177	0.019360	560.66	2.0676
148	0.042434	536.60	2.0851	158	0.03218	545.16	2.0791	168	0.024821	553.56	2.0742	178	0.019417	561.78	2.0701
149	0.042552	537.66	2.0876	159	0.03227	546.23	2.0816	169	0.024892	554.66	2.0767	179	0.019473	562.90	2.0726
150	0.042669	538.71	2.0901	160	0.03236	547.31	2.0841	170	0.024963	555.76	2.0792	180	0.019530	564.03	2.0751
151	0.042786	539.76	2.0926	161	0.03245	548.39	2.0866	171	0.025034	556.86	2.0817	181	0.019587	565.16	2.0776

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Satn 20 °C [Dew Point 8.9614 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
152	0.042903	540.82	2.0951
153	0.043020	541.88	2.0976
154	0.043137	542.94	2.1001
155	0.043254	544.00	2.1025
156	0.043371	545.06	2.1050
157	0.043488	546.12	2.1075
158	0.043604	547.18	2.1100
159	0.043721	548.24	2.1124
160	0.043837	549.31	2.1149

Satn 30 °C [Dew Point 11.980 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
162	0.03254	549.47	2.0891
163	0.03263	550.55	2.0915
164	0.03272	551.63	2.0940
165	0.03281	552.71	2.0965
166	0.03290	553.79	2.0990
167	0.03299	554.87	2.1014
168	0.03308	555.96	2.1039
169	0.03317	557.04	2.1063
170	0.03326	558.13	2.1088

Satn 40 °C [Dew Point 15.722 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
172	0.025104	557.96	2.0841
173	0.025175	559.07	2.0866
174	0.025245	560.17	2.0891
175	0.025315	561.27	2.0916
176	0.025386	562.38	2.0940
177	0.025456	563.49	2.0965
178	0.025526	564.59	2.0989
179	0.025596	565.70	2.1014
180	0.025666	566.81	2.1038

Satn 50 °C [Dew Point 20.312 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
182	0.019643	566.28	2.0800
183	0.019699	567.41	2.0825
184	0.019756	568.54	2.0850
185	0.019812	569.67	2.0875
186	0.019868	570.80	2.0899
187	0.019924	571.93	2.0924
188	0.019980	573.06	2.0948
189	0.020036	574.19	2.0973
190	0.020092	575.32	2.0997

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Satn 60 °C [Dew Point 25.908 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
60	0.007609	414.27	1.6684
61	0.007723	416.01	1.6736
62	0.007834	417.69	1.6787
63	0.007940	419.34	1.6836
64	0.008043	420.95	1.6883
65	0.008144	422.52	1.6930
66	0.008241	424.07	1.6976
67	0.008337	425.58	1.7020
68	0.008430	427.08	1.7064
69	0.008521	428.55	1.7107
70	0.008610	430.00	1.7150
71	0.008698	431.43	1.7191
72	0.008783	432.85	1.7232
73	0.008868	434.25	1.7273
74	0.008951	435.64	1.7313
75	0.009032	437.01	1.7352
76	0.009112	438.37	1.7391
77	0.009192	439.71	1.7430
78	0.009269	441.05	1.7468
79	0.009346	442.37	1.7506
80	0.009422	443.69	1.7543
81	0.009497	444.99	1.7580
82	0.009571	446.29	1.7616
83	0.009644	447.58	1.7653
84	0.009717	448.86	1.7689
85	0.009788	450.13	1.7724
86	0.009859	451.40	1.7759
87	0.009929	452.66	1.7795
88	0.009999	453.91	1.7829
89	0.010067	455.16	1.7864
90	0.010135	456.41	1.7898
91	0.010203	457.64	1.7932
92	0.010269	458.87	1.7966
93	0.010336	460.10	1.7999
94	0.010401	461.32	1.8033
95	0.010467	462.54	1.8066
96	0.010531	463.75	1.8099
97	0.010595	464.96	1.8132
98	0.010659	466.17	1.8164
99	0.010722	467.37	1.8196
100	0.010785	468.57	1.8229
101	0.010847	469.77	1.8261
102	0.010909	470.96	1.8292
103	0.010970	472.15	1.8324

Satn 70 °C [Dew Point 32.746 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
70	0.0054135	410.55	1.6444
71	0.0055433	412.92	1.6513
72	0.0056640	415.14	1.6578
73	0.0057775	417.25	1.6639
74	0.0058851	419.27	1.6697
75	0.0059877	421.21	1.6753
76	0.0060860	423.09	1.6807
77	0.0061806	424.91	1.6859
78	0.0062720	426.68	1.6909
79	0.0063603	428.41	1.6958
80	0.0064461	430.10	1.7006
81	0.0065295	431.76	1.7053
82	0.0066107	433.38	1.7099
83	0.0066899	434.98	1.7144
84	0.0067673	436.55	1.7188
85	0.0068430	438.10	1.7231
86	0.0069172	439.62	1.7274
87	0.0069899	441.13	1.7316
88	0.0070613	442.61	1.7357
89	0.0071314	444.08	1.7397
90	0.0072002	445.54	1.7438
91	0.0072680	446.98	1.7477
92	0.0073348	448.40	1.7516
93	0.0074005	449.81	1.7555
94	0.0074653	451.21	1.7593
95	0.0075291	452.60	1.7631
96	0.0075922	453.98	1.7668
97	0.0076544	455.35	1.7705
98	0.0077158	456.71	1.7742
99	0.0077766	458.05	1.7778
100	0.0078366	459.39	1.7814
101	0.0078959	460.73	1.7850
102	0.0079546	462.05	1.7885
103	0.0080127	463.37	1.7920
104	0.0080701	464.68	1.7955
105	0.0081270	465.98	1.7989
106	0.0081834	467.28	1.8024
107	0.0082392	468.57	1.8058
108	0.0082945	469.86	1.8091
109	0.0083494	471.14	1.8125
110	0.0084037	472.41	1.8158
111	0.0084576	473.68	1.8191
112	0.0085111	474.95	1.8224
113	0.0085641	476.21	1.8257

Satn 80 °C [Dew Point 41.387 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
80	0.0033884	396.99	1.5947
81	0.0036086	402.10	1.6092
82	0.0037829	406.14	1.6206
83	0.0039317	409.59	1.6303
84	0.0040636	412.65	1.6389
85	0.0041834	415.45	1.6467
86	0.0042940	418.05	1.6540
87	0.0043972	420.50	1.6608
88	0.0044944	422.81	1.6672
89	0.0045866	425.02	1.6733
90	0.0046745	427.14	1.6791
91	0.0047587	429.19	1.6848
92	0.0048396	431.17	1.6902
93	0.0049177	433.10	1.6955
94	0.0049933	434.97	1.7006
95	0.0050665	436.80	1.7055
96	0.0051376	438.59	1.7104
97	0.0052068	440.34	1.7151
98	0.0052743	442.05	1.7198
99	0.0053401	443.74	1.7243
100	0.0054045	445.40	1.7288
101	0.0054675	447.04	1.7331
102	0.0055292	448.65	1.7374
103	0.0055898	450.24	1.7417
104	0.0056492	451.81	1.7458
105	0.0057075	453.36	1.7499
106	0.0057649	454.89	1.7540
107	0.0058213	456.41	1.7580
108	0.0058769	457.91	1.7619
109	0.0059316	459.39	1.7658
110	0.0059855	460.87	1.7697
111	0.0060387	462.33	1.7735
112	0.0060911	463.78	1.7772
113	0.0061429	465.22	1.7810
114	0.0061940	466.64	1.7847
115	0.0062445	468.06	1.7883
116	0.0062945	469.47	1.7919
117	0.0063438	470.87	1.7955
118	0.0063926	472.26	1.7991
119	0.0064409	473.64	1.8026
120	0.0064886	475.01	1.8061
121	0.0065359	476.38	1.8096
122	0.0065827	477.74	1.8130
123	0.0066291	479.09	1.8164

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Satn 60 °C [Dew Point 25.908 bar]				Satn 70 °C [Dew Point 32.746 bar]				Satn 80 °C [Dew Point 41.387 bar]			
Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
104	0.011031	473.34	1.8356	114	0.0086167	477.47	1.8290	124	0.0066750	480.44	1.8198
105	0.011092	474.52	1.8387	115	0.0086689	478.72	1.8322	125	0.0067205	481.78	1.8232
106	0.011152	475.70	1.8418	116	0.0087208	479.97	1.8354	126	0.0067657	483.11	1.8266
107	0.011212	476.88	1.8449	117	0.0087722	481.21	1.8386	127	0.0068104	484.44	1.8299
108	0.011272	478.06	1.8480	118	0.0088233	482.45	1.8418	128	0.0068547	485.76	1.8332
109	0.011331	479.23	1.8511	119	0.0088741	483.69	1.8449	129	0.0068987	487.08	1.8365
110	0.011390	480.40	1.8541	120	0.0089244	484.93	1.8481	130	0.0069423	488.39	1.8397
111	0.011448	481.57	1.8572	121	0.0089745	486.16	1.8512	131	0.0069856	489.70	1.8430
112	0.011507	482.74	1.8602	122	0.0090242	487.39	1.8543	132	0.0070286	491.01	1.8462
113	0.011564	483.91	1.8633	123	0.0090737	488.61	1.8574	133	0.0070712	492.31	1.8494
114	0.011622	485.07	1.8663	124	0.0091228	489.84	1.8605	134	0.0071136	493.60	1.8526
115	0.011679	486.23	1.8693	125	0.0091716	491.06	1.8636	135	0.0071556	494.89	1.8558
116	0.011736	487.40	1.8723	126	0.0092201	492.28	1.8666	136	0.0071973	496.18	1.8589
117	0.011793	488.56	1.8752	127	0.0092684	493.49	1.8697	137	0.0072388	497.47	1.8620
118	0.011849	489.71	1.8782	128	0.0093163	494.71	1.8727	138	0.0072800	498.75	1.8652
119	0.011906	490.87	1.8812	129	0.0093640	495.92	1.8757	139	0.0073209	500.03	1.8683
120	0.011962	492.03	1.8841	130	0.0094115	497.13	1.8787	140	0.0073615	501.30	1.8714
121	0.012017	493.18	1.8870	131	0.0094587	498.33	1.8817	141	0.0074019	502.57	1.8744
122	0.012073	494.33	1.8899	132	0.0095056	499.54	1.8847	142	0.0074420	503.84	1.8775
123	0.012128	495.49	1.8929	133	0.0095523	500.74	1.8877	143	0.0074819	505.11	1.8805
124	0.012183	496.64	1.8958	134	0.0095988	501.94	1.8906	144	0.0075216	506.37	1.8836
125	0.012237	497.79	1.8987	135	0.0096450	503.14	1.8936	145	0.0075610	507.63	1.8866
126	0.012292	498.93	1.9015	136	0.0096910	504.34	1.8965	146	0.0076003	508.89	1.8896
127	0.012346	500.08	1.9044	137	0.0097368	505.54	1.8994	147	0.0076392	510.14	1.8926
128	0.012400	501.23	1.9073	138	0.0097824	506.74	1.9023	148	0.0076780	511.40	1.8956
129	0.012454	502.38	1.9101	139	0.0098277	507.93	1.9052	149	0.0077166	512.65	1.8985
130	0.012507	503.52	1.9130	140	0.0098729	509.12	1.9081	150	0.0077550	513.90	1.9015
131	0.012561	504.67	1.9158	141	0.0099179	510.31	1.9110	151	0.0077931	515.14	1.9044
132	0.012614	505.81	1.9186	142	0.0099626	511.50	1.9139	152	0.0078311	516.39	1.9074
133	0.012667	506.95	1.9215	143	0.0100070	512.69	1.9167	153	0.0078689	517.63	1.9103
134	0.012720	508.10	1.9243	144	0.0100520	513.88	1.9196	154	0.0079065	518.88	1.9132
135	0.012772	509.24	1.9271	145	0.0100960	515.07	1.9224	155	0.0079439	520.12	1.9161
136	0.012825	510.38	1.9299	146	0.0101400	516.26	1.9253	156	0.0079812	521.35	1.9190
137	0.012877	511.52	1.9326	147	0.0101840	517.44	1.9281	157	0.0080183	522.59	1.9219
138	0.012929	512.66	1.9354	148	0.0102270	518.63	1.9309	158	0.0080552	523.83	1.9247
139	0.012981	513.81	1.9382	149	0.0102710	519.81	1.9337	159	0.0080919	525.06	1.9276
140	0.013033	514.95	1.9410	150	0.0103140	520.99	1.9365	160	0.0081285	526.29	1.9304
141	0.013084	516.09	1.9437	151	0.0103570	522.17	1.9393	161	0.0081649	527.52	1.9333
142	0.013136	517.23	1.9465	152	0.0104000	523.35	1.9421	162	0.0082012	528.75	1.9361
143	0.013187	518.37	1.9492	153	0.0104430	524.54	1.9448	163	0.0082373	529.98	1.9389
144	0.013238	519.50	1.9519	154	0.0104860	525.72	1.9476	164	0.0082732	531.21	1.9417
145	0.013289	520.64	1.9547	155	0.0105280	526.90	1.9504	165	0.0083091	532.44	1.9445
146	0.013340	521.78	1.9574	156	0.0105710	528.07	1.9531	166	0.0083447	533.66	1.9473
147	0.013390	522.92	1.9601	157	0.0106130	529.25	1.9559	167	0.0083803	534.89	1.9501

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Satn 60 °C [Dew Point 25.908 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
148	0.013441	524.06	1.9628
149	0.013491	525.20	1.9655
150	0.013541	526.34	1.9682
151	0.013591	527.48	1.9709
152	0.013641	528.62	1.9736
153	0.013691	529.76	1.9763
154	0.013741	530.89	1.9789
155	0.013790	532.03	1.9816
156	0.013839	533.17	1.9842
157	0.013889	534.31	1.9869
158	0.013938	535.45	1.9895
159	0.013987	536.59	1.9922
160	0.014036	537.73	1.9948
161	0.014084	538.87	1.9974
162	0.014133	540.01	2.0001
163	0.014182	541.15	2.0027
164	0.014230	542.29	2.0053
165	0.014278	543.43	2.0079
166	0.014326	544.57	2.0105
167	0.014375	545.71	2.0131
168	0.014423	546.86	2.0157
169	0.014470	548.00	2.0183
170	0.014518	549.14	2.0209
171	0.014566	550.28	2.0234
172	0.014613	551.43	2.0260
173	0.014661	552.57	2.0286
174	0.014708	553.71	2.0311
175	0.014756	554.86	2.0337
176	0.014803	556.00	2.0362
177	0.014850	557.15	2.0388
178	0.014897	558.29	2.0413
179	0.014944	559.44	2.0439
180	0.014991	560.59	2.0464
181	0.015037	561.73	2.0489
182	0.015084	562.88	2.0515
183	0.015131	564.03	2.0540
184	0.015177	565.18	2.0565
185	0.015223	566.33	2.0590
186	0.015270	567.48	2.0615
187	0.015316	568.63	2.0640
188	0.015362	569.78	2.0665
189	0.015408	570.93	2.0690
190	0.015454	572.08	2.0715
191	0.015500	573.23	2.0740

Satn 70 °C [Dew Point 32.746 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
158	0.0106550	530.43	1.9586
159	0.0106970	531.61	1.9613
160	0.0107390	532.79	1.9640
161	0.0107810	533.96	1.9668
162	0.0108220	535.14	1.9695
163	0.0108640	536.32	1.9722
164	0.0109050	537.49	1.9749
165	0.0109460	538.67	1.9775
166	0.0109870	539.84	1.9802
167	0.0110280	541.02	1.9829
168	0.0110690	542.19	1.9856
169	0.0111100	543.37	1.9882
170	0.0111500	544.54	1.9909
171	0.0111910	545.72	1.9935
172	0.0112310	546.89	1.9962
173	0.0112710	548.07	1.9988
174	0.0113120	549.24	2.0014
175	0.0113520	550.42	2.0041
176	0.0113920	551.59	2.0067
177	0.0114310	552.77	2.0093
178	0.0114710	553.94	2.0119
179	0.0115110	555.12	2.0145
180	0.0115500	556.29	2.0171
181	0.0115900	557.47	2.0197
182	0.0116290	558.64	2.0223
183	0.0116680	559.82	2.0249
184	0.0117080	560.99	2.0274
185	0.0117470	562.17	2.0300
186	0.0117860	563.35	2.0326
187	0.0118250	564.52	2.0351
188	0.0118630	565.70	2.0377
189	0.0119020	566.88	2.0402
190	0.0119410	568.05	2.0428
191	0.0119790	569.23	2.0453
192	0.0120180	570.41	2.0478
193	0.0120560	571.59	2.0504
194	0.0120940	572.77	2.0529
195	0.0121330	573.94	2.0554
196	0.0121710	575.12	2.0579
197	0.0122090	576.30	2.0605
198	0.0122470	577.48	2.0630
199	0.0122850	578.66	2.0655
200	0.0123230	579.84	2.0680
201	0.0123610	581.03	2.0705

Satn 80 °C [Dew Point 41.387 bar]

Temp (°C)	Volume (m³/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
168	0.0084157	536.11	1.9529
169	0.0084509	537.33	1.9557
170	0.0084860	538.55	1.9584
171	0.0085210	539.77	1.9612
172	0.0085559	540.99	1.9639
173	0.0085907	542.21	1.9667
174	0.0086253	543.43	1.9694
175	0.0086598	544.65	1.9721
176	0.0086942	545.87	1.9748
177	0.0087284	547.08	1.9775
178	0.0087626	548.30	1.9802
179	0.0087966	549.52	1.9829
180	0.0088306	550.73	1.9856
181	0.0088644	551.95	1.9883
182	0.0088981	553.16	1.9910
183	0.0089317	554.38	1.9936
184	0.0089652	555.59	1.9963
185	0.0089986	556.80	1.9989
186	0.0090320	558.02	2.0016
187	0.0090652	559.23	2.0042
188	0.0090983	560.44	2.0068
189	0.0091313	561.66	2.0095
190	0.0091642	562.87	2.0121
191	0.0091971	564.08	2.0147
192	0.0092298	565.29	2.0173
193	0.0092625	566.50	2.0199
194	0.0092950	567.72	2.0225
195	0.0093275	568.93	2.0251
196	0.0093599	570.14	2.0277
197	0.0093922	571.35	2.0303
198	0.0094245	572.56	2.0328
199	0.0094566	573.77	2.0354
200	0.0094887	574.98	2.0380
201	0.0095207	576.20	2.0405
202	0.0095526	577.41	2.0431
203	0.0095844	578.62	2.0456
204	0.0096162	579.83	2.0482
205	0.0096479	581.04	2.0507
206	0.0096795	582.26	2.0532
207	0.0097111	583.47	2.0558
208	0.0097425	584.68	2.0583
209	0.0097739	585.89	2.0608
210	0.0098053	587.11	2.0633
211	0.0098365	588.32	2.0658

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Satn 60 °C [Dew Point 25.908 bar]

Temp (°C)	Volume (m ³ /kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
192	0.015546	574.39	2.0765
193	0.015592	575.54	2.0789
194	0.015638	576.69	2.0814
195	0.015683	577.85	2.0839
196	0.015729	579.00	2.0863
197	0.015774	580.16	2.0888
198	0.015820	581.32	2.0913
199	0.015865	582.48	2.0937
200	0.015910	583.63	2.0962

Satn 70 °C [Dew Point 32.746 bar]

Temp (°C)	Volume (m ³ /kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
202	0.0123980	582.21	2.0729
203	0.0124360	583.39	2.0754
204	0.0124740	584.57	2.0779
205	0.0125110	585.75	2.0804
206	0.0125490	586.94	2.0829
207	0.0125860	588.12	2.0853
208	0.0126230	589.31	2.0878
209	0.0126610	590.49	2.0902
210	0.0126980	591.68	2.0927

Satn 80 °C [Dew Point 41.387 bar]

Temp (°C)	Volume (m ³ /kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
212	0.0098677	589.53	2.0683
213	0.0098989	590.75	2.0708
214	0.0099299	591.96	2.0733
215	0.0099610	593.17	2.0758
216	0.0099919	594.39	2.0783
217	0.0100230	595.60	2.0808
218	0.0100540	596.82	2.0833
219	0.0100840	598.03	2.0857
220	0.0101150	599.25	2.0882