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Temp., T (°C)	Specific volume, cm ³ /g			Internal energy, J/g			Enthalpy, J/g			Entropy, J/g·K		
	Sat. press., P _{sat} (MPa)	Sat. liquid, v _f	Sat. vapor, v _g	Sat. liquid, u _f	Phase, u _{fg}	Sat. vapor, u _g	Sat. liquid, h _f	Phase, h _{fg}	Sat. vapor, h _g	Sat. liquid, s _f	Phase, s _{fg}	Sat. vapor, s _g
0.01	0.00127	0.000000	206.98	0.000	2270.9	2270.9	0.000	2269.8	2269.8	0.0000	0.9156	0.9156
5	0.00759	0.000000	171.58	21.019	2260.8	2281.8	81.060	2268.1	2289.1	0.0763	0.8887	0.9650
10	0.01501	0.000000	159.40	41.838	2248.6	2290.4	163.89	2267.5	2295.3	0.1511	0.8708	0.9869
15	0.02457	0.000000	151.90	62.995	2234.2	2297.2	240.88	2266.2	2301.2	0.2259	0.8530	1.0088
20	0.03690	0.000000	147.70	84.762	2218.4	2303.2	312.83	2265.0	2307.4	0.2998	0.8353	1.0307
25	0.05258	0.000000	145.08	107.48	2201.2	2308.5	380.18	2264.0	2313.9	0.3729	0.8178	1.0526
30	0.07219	0.000000	143.49	131.59	2182.7	2313.2	443.18	2263.2	2320.7	0.4453	0.8005	1.0745
35	0.09641	0.000000	142.55	157.55	2163.0	2317.5	501.48	2262.6	2327.8	0.5172	0.7834	1.0964
40	0.12591	0.000000	142.15	185.81	2141.2	2321.3	555.64	2262.2	2335.2	0.5887	0.7664	1.1183
45	0.16139	0.000000	142.30	216.79	2117.2	2324.7	605.34	2262.0	2343.2	0.6590	0.7495	1.1402
50	0.20457	0.000000	142.90	250.92	2091.1	2327.7	651.28	2262.0	2351.8	0.7282	0.7327	1.1621
55	0.25619	0.000000	143.95	288.61	2062.9	2330.5	693.28	2262.2	2361.0	0.7964	0.7160	1.1840
60	0.31707	0.000000	145.45	330.40	2032.5	2333.0	731.98	2262.6	2370.8	0.8637	0.6994	1.2059
65	0.38811	0.000000	147.40	376.85	2000.0	2335.3	766.98	2263.2	2381.2	0.9301	0.6830	1.2278
70	0.47031	0.000000	149.80	428.51	1965.5	2337.4	800.00	2264.0	2392.2	0.9957	0.6667	1.2497
75	0.56579	0.000000	152.65	485.85	1929.1	2339.3	831.88	2265.0	2403.8	1.0606	0.6505	1.2716
80	0.67679	0.000000	156.00	548.45	1890.7	2341.0	862.80	2266.2	2416.0	1.1248	0.6344	1.2935
85	0.80661	0.000000	160.00	616.80	1850.2	2342.5	892.88	2267.6	2428.8	1.1884	0.6184	1.3154
90	0.95861	0.000000	164.80	691.50	1807.7	2343.8	922.20	2269.2	2442.2	1.2515	0.6025	1.3373
95	1.1363	0.000000	170.50	773.20	1763.2	2344.9	950.88	2271.0	2456.2	1.3142	0.5867	1.3592
100	1.3433	0.000000	177.20	862.50	1716.7	2345.8	979.00	2273.0	2471.0	1.3766	0.5710	1.3811
105	1.5839	0.000000	185.00	960.00	1668.2	2346.5	1006.68	2275.2	2486.8	1.4387	0.5554	1.4030
110	1.8629	0.000000	194.00	1066.40	1617.6	2347.0	1033.88	2277.6	2503.5	1.5006	0.5400	1.4249
115	2.1861	0.000000	204.50	1182.50	1565.0	2347.3	1060.68	2280.2	2521.0	1.5623	0.5247	1.4468
120	2.5593	0.000000	216.80	1309.00	1510.5	2347.4	1087.00	2283.0	2539.2	1.6238	0.5095	1.4687
125	2.9893	0.000000	230.50	1445.00	1454.5	2347.4	1112.88	2286.0	2558.0	1.6853	0.4942	1.4906
130	3.4793	0.000000	246.00	1590.00	1397.5	2347.4	1138.00	2289.0	2577.0	1.7468	0.4789	1.5125
135	4.0829	0.000000	263.00	1745.00	1339.5	2347.4	1162.88	2292.0	2596.0	1.8083	0.4636	1.5344
140	4.8149	0.000000	282.00	1910.00	1280.5	2347.4	1187.00	2295.0	2615.0	1.8698	0.4483	1.5563
145	5.6909	0.000000	303.00	2085.00	1220.5	2347.4	1210.88	2298.0	2634.0	1.9313	0.4330	1.5782
150	6.7279	0.000000	326.00	2280.00	1159.5	2347.4	1234.88	2301.0	2653.0	1.9928	0.4177	1.6001
155	7.9439	0.000000	352.00	2495.00	1097.5	2347.4	1258.88	2304.0	2672.0	2.0543	0.4024	1.6220
160	9.3579	0.000000	380.00	2730.00	1034.5	2347.4	1282.88	2307.0	2691.0	2.1158	0.3871	1.6439
165	10.9899	0.000000	410.00	2985.00	970.5	2347.4	1306.88	2310.0	2710.0	2.1773	0.3718	1.6658
170	12.8599	0.000000	442.00	3260.00	905.5	2347.4	1330.88	2313.0	2729.0	2.2388	0.3565	1.6877
175	14.9899	0.000000	476.00	3555.00	840.5	2347.4	1354.88	2316.0	2748.0	2.3003	0.3412	1.7096
180	17.3999	0.000000	512.00	3870.00	775.5	2347.4	1378.88	2319.0	2767.0	2.3618	0.3259	1.7315
185	20.1099	0.000000	550.00	4205.00	710.5	2347.4	1402.88	2322.0	2786.0	2.4233	0.3106	1.7534
190	23.1499	0.000000	590.00	4560.00	645.5	2347.4	1426.88	2325.0	2805.0	2.4848	0.2953	1.7753
195	26.5499	0.000000	632.00	4935.00	580.5	2347.4	1450.88	2328.0	2824.0	2.5463	0.2800	1.7972
200	30.3499	0.000000	676.00	5330.00	515.5	2347.4	1474.88	2331.0	2843.0	2.6078	0.2647	1.8191
205	34.5999	0.000000	722.00	5745.00	450.5	2347.4	1498.88	2334.0	2862.0	2.6693	0.2494	1.8410
210	39.3499	0.000000	770.00	6180.00	385.5	2347.4	1522.88	2337.0	2881.0	2.7308	0.2341	1.8629
215	44.6499	0.000000	820.00	6635.00	320.5	2347.4	1546.88	2340.0	2900.0	2.7923	0.2188	1.8848
220	50.5499	0.000000	872.00	7110.00	255.5	2347.4	1570.88	2343.0	2919.0	2.8538	0.2035	1.9067
225	57.1999	0.000000	926.00	7605.00	190.5	2347.4	1594.88	2346.0	2938.0	2.9153	0.1882	1.9286
230	64.6499	0.000000	982.00	8120.00	125.5	2347.4	1618.88	2349.0	2957.0	2.9768	0.1729	1.9505
235	72.9499	0.000000	1040.00	8655.00	60.5	2347.4	1642.88	2352.0	2976.0	3.0383	0.1576	1.9724
240	82.1499	0.000000	1100.00	9210.00	-4.5	2347.4	1666.88	2355.0	2995.0	3.0998	0.1423	1.9943
245	92.3999	0.000000	1162.00	9785.00	-69.5	2347.4	1690.88	2358.0	3014.0	3.1613	0.1270	2.0162
250	103.7499	0.000000	1226.00	10380.00	-134.5	2347.4	1714.88	2361.0	3033.0	3.2228	0.1117	2.0381
255	116.3499	0.000000	1292.00	10995.00	-199.5	2347.4	1738.88	2364.0	3052.0	3.2843	0.0964	2.0600
260	130.2499	0.000000	1360.00	11630.00	-264.5	2347.4	1762.88	2367.0	3071.0	3.3458	0.0811	2.0819
265	145.5999	0.000000	1430.00	12285.00	-329.5	2347.4	1786.88	2370.0	3090.0	3.4073	0.0658	2.1038
270	162.4499	0.000000	1502.00	12960.00	-394.5	2347.4	1810.88	2373.0	3109.0	3.4688	0.0505	2.1257
275	180.8499	0.000000	1576.00	13655.00	-459.5	2347.4	1834.88	2376.0	3128.0	3.5303	0.0352	2.1476
280	200.9499	0.000000	1652.00	14370.00	-524.5	2347.4	1858.88	2379.0	3147.0	3.5918	0.0199	2.1695
285	222.8999	0.000000	1730.00	15105.00	-589.5	2347.4	1882.88	2382.0	3166.0	3.6533	0.0046	2.1914
290	246.7499	0.000000	1810.00	15860.00	-654.5	2347.4	1906.88	2385.0	3185.0	3.7148	-0.0107	2.2133
295	272.5499	0.000000	1892.00	16635.00	-719.5	2347.4	1930.88	2388.0	3204.0	3.7763	-0.0254	2.2352
300	300.3499	0.000000	1976.00	17430.00	-784.5	2347.4	1954.88	2391.0	3223.0	3.8378	-0.0401	2.2571
305	330.1999	0.000000	2062.00	18245.00	-849.5	2347.4	1978.88	2394.0	3242.0	3.8993	-0.0548	2.2790
310	362.1499	0.000000	2150.00	19080.00	-914.5	2347.4	2002.88	2397.0	3261.0	3.9608	-0.0695	2.3009
315	396.3499	0.000000	2240.00	19935.00	-979.5	2347.4	2026.88	2400.0	3280.0	4.0223	-0.0842	2.3228
320	432.8499	0.000000	2332.00	20810.00	-1044.5	2347.4	2050.88	2403.0	3299.0	4.0838	-0.0989	2.3447
325	471.6999	0.000000	2426.00	21705.00	-1109.5	2347.4	2074.88	2406.0	3318.0	4.1453	-0.1136	2.3666
330	512.9499	0.000000	2522.00	22620.00	-1174.5	2347.4	2098.88	2409.0	3337.0	4.2068	-0.1283	2.3885
335	556.6499	0.000000	2620.00	23555.00	-1239.5	2347.4	2122.88	2412.0	3356.0	4.2683	-0.1430	2.4104
340	602.8499	0.000000	2720.00	24510.00	-1304.5	2347.4	2146.88	2415.0	3375.0	4.3298	-0.1577	2.4323
345	651.5999	0.000000	2822.00	25485.00	-1369.5	2347.4	2170.88	2418.0	3394.0	4.3913	-0.1724	2.4542
350	702.9499	0.000000	2926.00	26480.00	-1434.5	2347.4	2194.88	2421.0	3413.0	4.4528	-0.1871	2.4761
355	756.9499	0.000000	3032.00	27495.00	-1499.5	2347.4	2218.88	2424.0	3432.0	4.5143	-0.2018	2.4980
360	813.6499	0.000000	3140.00	28530.00	-1564.5	2347.4	2242.88	2427.0	3451.0	4.5758	-0.2165	2.5199
365	873.0999	0.000000	3250.00	29585.00	-1629.5	2347.4	2266.88	2430.0	3470.0	4.6373	-0.2312	2.5418
370	935.3499	0.000000	3362.00	30660.00	-1694.5	2347.4	2290.88	2433.0	3489.0	4.6988	-0.2459	2.5637
375	1000.4499	0.000000	3476.00	31755.00	-1759.5	2347.4	2314.88	2436.0	3508.0	4.7603	-0.2606	2.5856
380	1068.4499	0.000000	3592.00	32870.00	-1824.5	2347.4	2338.88	2439.0	3527.0	4.8218	-0.2753	2.6075
385	1139.3999	0.000000	3710.00	33995.00	-1889.5	2347.4	2362.88	2442.0	3546.0	4.8833	-0.2899	2.6294
390	1213.2499	0.000000	3830.00	35130.00	-1954.5	2347.4	2386.88	2445.0	3565.0	4.9448	-0.3046	2.6513
395	1290.0499	0.000000	3952.00	36275.00	-2019.5	2347.4	2410.88	2448.0	3584.0	5.0063	-0.3193	2.6732
400	1369.7499	0.000000	4076.00	37430.00	-2084.5	2347.4	2434.88	2451.0	3603.0	5.0678	-0.3340	2.6951



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Temp. T, °C	Specific volume v _{sp}			Internal angle 1/deg			Extinction 1/deg			Extinction 1/deg ²		
	Sat. press. P _{sat} , kPa	Sat. liquid v _l	Sat. vapor v _g	Sat. liquid v _l	Comp. v _g	Sat. vapor v _g	Sat. liquid v _l	Comp. v _g	Sat. vapor v _g	Sat. liquid v _l	Comp. v _g	Sat. vapor v _g
		m ³ /kg	m ³ /kg		m ³ /kg	m ³ /kg		m ³ /kg	m ³ /kg		m ³ /kg	m ³ /kg
200	0.0562	0.001384	0.15598	0.001384	0.001384	0.001384	0.001384	0.001384	0.001384	0.001384	0.001384	0.001384
210	0.0572	0.001375	0.15678	0.001375	0.001375	0.001375	0.001375	0.001375	0.001375	0.001375	0.001375	0.001375
220	0.0582	0.001366	0.15758	0.001366	0.001366	0.001366	0.001366	0.001366	0.001366	0.001366	0.001366	0.001366
230	0.0592	0.001357	0.15838	0.001357	0.001357	0.001357	0.001357	0.001357	0.001357	0.001357	0.001357	0.001357
240	0.0602	0.001348	0.15918	0.001348	0.001348	0.001348	0.001348	0.001348	0.001348	0.001348	0.001348	0.001348
250	0.0612	0.001339	0.15998	0.001339	0.001339	0.001339	0.001339	0.001339	0.001339	0.001339	0.001339	0.001339
260	0.0622	0.001330	0.16078	0.001330	0.001330	0.001330	0.001330	0.001330	0.001330	0.001330	0.001330	0.001330
270	0.0632	0.001321	0.16158	0.001321	0.001321	0.001321	0.001321	0.001321	0.001321	0.001321	0.001321	0.001321
280	0.0642	0.001312	0.16238	0.001312	0.001312	0.001312	0.001312	0.001312	0.001312	0.001312	0.001312	0.001312
290	0.0652	0.001303	0.16318	0.001303	0.001303	0.001303	0.001303	0.001303	0.001303	0.001303	0.001303	0.001303
300	0.0662	0.001294	0.16398	0.001294	0.001294	0.001294	0.001294	0.001294	0.001294	0.001294	0.001294	0.001294
310	0.0672	0.001285	0.16478	0.001285	0.001285	0.001285	0.001285	0.001285	0.001285	0.001285	0.001285	0.001285
320	0.0682	0.001276	0.16558	0.001276	0.001276	0.001276	0.001276	0.001276	0.001276	0.001276	0.001276	0.001276
330	0.0692	0.001267	0.16638	0.001267	0.001267	0.001267	0.001267	0.001267	0.001267	0.001267	0.001267	0.001267
340	0.0702	0.001258	0.16718	0.001258	0.001258	0.001258	0.001258	0.001258	0.001258	0.001258	0.001258	0.001258
350	0.0712	0.001249	0.16798	0.001249	0.001249	0.001249	0.001249	0.001249	0.001249	0.001249	0.001249	0.001249
360	0.0722	0.001240	0.16878	0.001240	0.001240	0.001240	0.001240	0.001240	0.001240	0.001240	0.001240	0.001240
370	0.0732	0.001231	0.16958	0.001231	0.001231	0.001231	0.001231	0.001231	0.001231	0.001231	0.001231	0.001231
380	0.0742	0.001222	0.17038	0.001222	0.001222	0.001222	0.001222	0.001222	0.001222	0.001222	0.001222	0.001222
390	0.0752	0.001213	0.17118	0.001213	0.001213	0.001213	0.001213	0.001213	0.001213	0.001213	0.001213	0.001213
400	0.0762	0.001204	0.17198	0.001204	0.001204	0.001204	0.001204	0.001204	0.001204	0.001204	0.001204	0.001204
410	0.0772	0.001195	0.17278	0.001195	0.001195	0.001195	0.001195	0.001195	0.001195	0.001195	0.001195	0.001195
420	0.0782	0.001186	0.17358	0.001186	0.001186	0.001186	0.001186	0.001186	0.001186	0.001186	0.001186	0.001186
430	0.0792	0.001177	0.17438	0.001177	0.001177	0.001177	0.001177	0.001177	0.001177	0.001177	0.001177	0.001177
440	0.0802	0.001168	0.17518	0.001168	0.001168	0.001168	0.001168	0.001168	0.001168	0.001168	0.001168	0.001168
450	0.0812	0.001159	0.17598	0.001159	0.001159	0.001159	0.001159	0.001159	0.001159	0.001159	0.001159	0.001159
460	0.0822	0.001150	0.17678	0.001150	0.001150	0.001150	0.001150	0.001150	0.001150	0.001150	0.001150	0.001150
470	0.0832	0.001141	0.17758	0.001141	0.001141	0.001141	0.001141	0.001141	0.001141	0.001141	0.001141	0.001141
480	0.0842	0.001132	0.17838	0.001132	0.001132	0.001132	0.001132	0.001132	0.001132	0.001132	0.001132	0.001132
490	0.0852	0.001123	0.17918	0.001123	0.001123	0.001123	0.001123	0.001123	0.001123	0.001123	0.001123	0.001123
500	0.0862	0.001114	0.17998	0.001114	0.001114	0.001114	0.001114	0.001114	0.001114	0.001114	0.001114	0.001114
510	0.0872	0.001105	0.18078	0.001105	0.001105	0.001105	0.001105	0.001105	0.001105	0.001105	0.001105	0.001105
520	0.0882	0.001096	0.18158	0.001096	0.001096	0.001096	0.001096	0.001096	0.001096	0.001096	0.001096	0.001096
530	0.0892	0.001087	0.18238	0.001087	0.001087	0.001087	0.001087	0.001087	0.001087	0.001087	0.001087	0.001087
540	0.0902	0.001078	0.18318	0.001078	0.001078	0.001078	0.001078	0.001078	0.001078	0.001078	0.001078	0.001078
550	0.0912	0.001069	0.18398	0.001069	0.001069	0.001069	0.001069	0.001069	0.001069	0.001069	0.001069	0.001069
560	0.0922	0.001060	0.18478	0.001060	0.001060	0.001060	0.001060	0.001060	0.001060	0.001060	0.001060	0.001060
570	0.0932	0.001051	0.18558	0.001051	0.001051	0.001051	0.001051	0.001051	0.001051	0.001051	0.001051	0.001051
580	0.0942	0.001042	0.18638	0.001042	0.001042	0.001042	0.001042	0.001042	0.001042	0.001042	0.001042	0.001042
590	0.0952	0.001033	0.18718	0.001033	0.001033	0.001033	0.001033	0.001033	0.001033	0.001033	0.001033	0.001033
600	0.0962	0.001024	0.18798	0.001024	0.001024	0.001024	0.001024	0.001024	0.001024	0.001024	0.001024	0.001024
610	0.0972	0.001015	0.18878	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015
620	0.0982	0.001006	0.18958	0.001006	0.001006	0.001006	0.001006	0.001006	0.001006	0.001006	0.001006	0.001006
630	0.0992	0.001000	0.19038	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
640	0.1002	0.001000	0.19118	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
650	0.1012	0.001000	0.19198	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
660	0.1022	0.001000	0.19278	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
670	0.1032	0.001000	0.19358	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
680	0.1042	0.001000	0.19438	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
690	0.1052	0.001000	0.19518	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
700	0.1062	0.001000	0.19598	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
710	0.1072	0.001000	0.19678	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
720	0.1082	0.001000	0.19758	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
730	0.1092	0.001000	0.19838	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
740	0.1102	0.001000	0.19918	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
750	0.1112	0.001000	0.19998	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
760	0.1122	0.001000	0.20078	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
770	0.1132	0.001000	0.20158	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
780	0.1142	0.001000	0.20238	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
790	0.1152	0.001000	0.20318	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
800	0.1162	0.001000	0.20398	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
810	0.1172	0.001000	0.20478	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
820	0.1182	0.001000	0.20558	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
830	0.1192	0.001000	0.20638	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
840	0.1202	0.001000	0.20718	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
850	0.1212	0.001000	0.20798	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
860	0.1222	0.001000	0.20878	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
870	0.1232	0.001000	0.20958	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
880	0.1242	0.001000	0.21038	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
890	0.1252	0.001000	0.21118	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
900	0.1262	0.001000	0.21198	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
910	0.1272	0.001000	0.21278	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
920	0.1282	0.001000										

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