

Temperatur [°C]	Druck [bar]		Dichte [kg/m ³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
-65,0	0,461	0,437	1278,3	1,621	101,26	430,02	0,5907	2,1746
-64,0	0,489	0,463	1275,6	1,713	102,72	430,60	0,5976	2,1698
-63,0	0,518	0,491	1272,9	1,808	104,17	431,18	0,6046	2,1650
-62,0	0,548	0,520	1270,2	1,908	105,63	431,76	0,6115	2,1604
-61,0	0,580	0,550	1267,5	2,012	107,09	432,33	0,6184	2,1558
-60,0	0,613	0,582	1264,8	2,120	108,55	432,90	0,6252	2,1512
-59,0	0,648	0,615	1262,1	2,233	110,01	433,47	0,6320	2,1468
-58,0	0,685	0,650	1259,4	2,351	111,47	434,04	0,6388	2,1423
-57,0	0,723	0,686	1256,6	2,474	112,93	434,61	0,6456	2,1380
-56,0	0,762	0,724	1253,9	2,601	114,40	435,17	0,6523	2,1337
-55,0	0,804	0,764	1251,2	2,734	115,86	435,73	0,6591	2,1295
-54,0	0,847	0,805	1248,4	2,873	117,33	436,28	0,6657	2,1253
-53,0	0,892	0,848	1245,6	3,016	118,80	436,84	0,6724	2,1212
-52,0	0,939	0,893	1242,8	3,166	120,27	437,39	0,6791	2,1171
-51,0	0,988	0,939	1240,1	3,321	121,74	437,94	0,6857	2,1131
-50,0	1,039	0,988	1237,3	3,482	123,21	438,49	0,6923	2,1091
-49,0	1,092	1,038	1234,5	3,649	124,68	439,03	0,6988	2,1052
-48,0	1,147	1,091	1231,6	3,822	126,16	439,57	0,7054	2,1013
-47,0	1,204	1,146	1228,8	4,002	127,63	440,11	0,7119	2,0975
-46,0	1,263	1,203	1226,0	4,189	129,11	440,64	0,7184	2,0938
-45,0	1,325	1,262	1223,1	4,382	130,59	441,17	0,7249	2,0900
-44,0	1,389	1,323	1220,3	4,583	132,07	441,70	0,7313	2,0864
-43,0	1,456	1,386	1217,4	4,790	133,56	442,23	0,7378	2,0827
-42,0	1,525	1,452	1214,5	5,005	135,04	442,75	0,7442	2,0792
-41,0	1,596	1,521	1211,6	5,227	136,53	443,27	0,7506	2,0756
-40,0	1,670	1,592	1208,7	5,457	138,02	443,79	0,7570	2,0721
-39,0	1,747	1,665	1205,8	5,695	139,52	444,30	0,7633	2,0687
-38,0	1,827	1,742	1202,9	5,941	141,01	444,81	0,7697	2,0653
-37,0	1,909	1,820	1200,0	6,196	142,51	445,31	0,7760	2,0619
-36,0	1,994	1,902	1197,0	6,459	144,01	445,81	0,7823	2,0586
-35,0	2,083	1,987	1194,1	6,730	145,51	446,31	0,7886	2,0553
-34,0	2,174	2,074	1191,1	7,011	147,01	446,81	0,7949	2,0520
-33,0	2,268	2,164	1188,1	7,300	148,52	447,30	0,8011	2,0488
-32,0	2,365	2,258	1185,1	7,600	150,03	447,79	0,8074	2,0456
-31,0	2,466	2,354	1182,1	7,908	151,54	448,27	0,8136	2,0425
-30,0	2,570	2,454	1179,1	8,227	153,05	448,75	0,8198	2,0394
-29,0	2,677	2,557	1176,1	8,556	154,57	449,22	0,8260	2,0363
-28,0	2,788	2,663	1173,0	8,895	156,09	449,70	0,8321	2,0332
-27,0	2,902	2,773	1170,0	9,244	157,61	450,16	0,8383	2,0302
-26,0	3,020	2,886	1166,9	9,604	159,14	450,63	0,8444	2,0272
-25,0	3,142	3,002	1163,8	9,976	160,66	451,09	0,8506	2,0243

Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
-24,0	3,267	3,122	1160,7	10,36	162,20	451,54	0,8567	2,0213
-23,0	3,396	3,246	1157,6	10,75	163,73	451,99	0,8628	2,0184
-22,0	3,529	3,374	1154,5	11,16	165,27	452,44	0,8689	2,0156
-21,0	3,666	3,505	1151,3	11,58	166,81	452,88	0,8749	2,0127
-20,0	3,807	3,641	1148,2	12,01	168,35	453,31	0,8810	2,0099
-19,0	3,952	3,780	1145,0	12,45	169,90	453,75	0,8871	2,0071
-18,0	4,101	3,924	1141,8	12,91	171,45	454,17	0,8931	2,0043
-17,0	4,255	4,071	1138,6	13,38	173,00	454,59	0,8991	2,0016
-16,0	4,413	4,223	1135,4	13,86	174,56	455,01	0,9051	1,9989
-15,0	4,575	4,379	1132,2	14,36	176,12	455,42	0,9111	1,9962
-14,0	4,742	4,540	1128,9	14,87	177,68	455,83	0,9171	1,9935
-13,0	4,913	4,705	1125,6	15,40	179,25	456,23	0,9231	1,9909
-12,0	5,089	4,874	1122,4	15,94	180,82	456,63	0,9291	1,9882
-11,0	5,270	5,048	1119,1	16,49	182,40	457,02	0,9350	1,9856
-10,0	5,456	5,227	1115,7	17,07	183,98	457,40	0,9410	1,9830
-9,0	5,647	5,411	1112,4	17,65	185,56	457,78	0,9469	1,9804
-8,0	5,842	5,600	1109,0	18,26	187,15	458,15	0,9528	1,9779
-7,0	6,043	5,793	1105,7	18,88	188,74	458,52	0,9588	1,9753
-6,0	6,249	5,992	1102,3	19,52	190,33	458,88	0,9647	1,9728
-5,0	6,461	6,195	1098,9	20,17	191,93	459,24	0,9706	1,9703
-4,0	6,677	6,404	1095,4	20,85	193,54	459,59	0,9765	1,9678
-3,0	6,899	6,619	1092,0	21,54	195,15	459,93	0,9824	1,9653
-2,0	7,127	6,838	1088,5	22,25	196,76	460,27	0,9883	1,9629
-1,0	7,360	7,063	1085,0	22,98	198,38	460,59	0,9941	1,9604
0,0	7,599	7,294	1081,5	23,73	200,00	460,92	1,0000	1,9580
1,0	7,844	7,531	1077,9	24,50	201,63	461,23	1,0059	1,9555
2,0	8,095	7,773	1074,4	25,29	203,26	461,54	1,0117	1,9531
3,0	8,352	8,021	1070,8	26,11	204,90	461,84	1,0176	1,9507
4,0	8,614	8,275	1067,2	26,94	206,54	462,13	1,0234	1,9483
5,0	8,883	8,535	1063,5	27,80	208,19	462,42	1,0293	1,9459
6,0	9,159	8,801	1059,9	28,68	209,84	462,70	1,0351	1,9435
7,0	9,440	9,074	1056,2	29,58	211,50	462,97	1,0409	1,9411
8,0	9,728	9,352	1052,5	30,51	213,16	463,23	1,0468	1,9388
9,0	10,02	9,638	1048,7	31,47	214,83	463,48	1,0526	1,9364
10,0	10,32	9,929	1045,0	32,44	216,50	463,73	1,0584	1,9340
11,0	10,63	10,23	1041,2	33,45	218,18	463,96	1,0642	1,9317
12,0	10,95	10,53	1037,3	34,48	219,87	464,19	1,0700	1,9293
13,0	11,27	10,85	1033,5	35,54	221,56	464,41	1,0759	1,9270
14,0	11,60	11,16	1029,6	36,63	223,26	464,61	1,0817	1,9246
15,0	11,93	11,49	1025,7	37,75	224,97	464,81	1,0875	1,9222

Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
16,0	12,28	11,82	1021,7	38,89	226,68	465,00	1,0933	1,9199
17,0	12,63	12,16	1017,8	40,07	228,39	465,18	1,0991	1,9175
18,0	12,99	12,51	1013,7	41,28	230,12	465,35	1,1049	1,9152
19,0	13,35	12,87	1009,7	42,52	231,85	465,51	1,1107	1,9128
20,0	13,72	13,23	1005,6	43,80	233,59	465,65	1,1166	1,9104
21,0	14,11	13,60	1001,5	45,11	235,34	465,79	1,1224	1,9081
22,0	14,49	13,98	997,33	46,46	237,09	465,92	1,1282	1,9057
23,0	14,89	14,36	993,14	47,84	238,85	466,03	1,1340	1,9033
24,0	15,30	14,76	988,90	49,26	240,62	466,13	1,1399	1,9009
25,0	15,71	15,16	984,63	50,72	242,40	466,22	1,1457	1,8985
26,0	16,13	15,57	980,31	52,23	244,19	466,29	1,1515	1,8961
27,0	16,56	15,99	975,94	53,77	245,98	466,36	1,1574	1,8936
28,0	17,00	16,42	971,53	55,36	247,79	466,40	1,1632	1,8912
29,0	17,44	16,85	967,08	56,99	249,60	466,44	1,1691	1,8887
30,0	17,90	17,30	962,58	58,67	251,42	466,46	1,1749	1,8863
31,0	18,36	17,75	958,02	60,39	253,25	466,47	1,1808	1,8838
32,0	18,84	18,21	953,42	62,17	255,10	466,46	1,1867	1,8813
33,0	19,32	18,68	948,76	63,99	256,95	466,43	1,1926	1,8787
34,0	19,81	19,17	944,04	65,87	258,81	466,39	1,1985	1,8762
35,0	20,31	19,66	939,27	67,81	260,69	466,33	1,2044	1,8736
36,0	20,82	20,16	934,44	69,80	262,57	466,26	1,2104	1,8710
37,0	21,34	20,67	929,54	71,86	264,47	466,16	1,2163	1,8684
38,0	21,87	21,18	924,58	73,97	266,38	466,05	1,2223	1,8657
39,0	22,41	21,71	919,55	76,15	268,30	465,92	1,2282	1,8631
40,0	22,96	22,25	914,45	78,40	270,24	465,77	1,2342	1,8603
41,0	23,52	22,80	909,28	80,72	272,19	465,60	1,2403	1,8576
42,0	24,09	23,36	904,02	83,12	274,15	465,40	1,2463	1,8548
43,0	24,67	23,93	898,69	85,59	276,13	465,18	1,2524	1,8520
44,0	25,26	24,51	893,27	88,14	278,12	464,94	1,2585	1,8491
45,0	25,86	25,10	887,76	90,78	280,13	464,68	1,2646	1,8462
46,0	26,47	25,71	882,16	93,50	282,16	464,39	1,2707	1,8432
47,0	27,09	26,32	876,45	96,32	284,20	464,07	1,2769	1,8402
48,0	27,72	26,95	870,64	99,24	286,27	463,73	1,2831	1,8371
49,0	28,37	27,58	864,73	102,3	288,35	463,35	1,2894	1,8340
50,0	29,02	28,23	858,69	105,4	290,46	462,94	1,2956	1,8308
51,0	29,69	28,89	852,53	108,7	292,58	462,51	1,3020	1,8275
52,0	30,37	29,57	846,23	112,0	294,73	462,03	1,3083	1,8242
53,0	31,06	30,25	839,80	115,5	296,91	461,52	1,3148	1,8208
54,0	31,76	30,95	833,21	119,2	299,11	460,97	1,3212	1,8173
55,0	32,47	31,66	826,47	123,0	301,33	460,38	1,3278	1,8137

Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
56,0	33,20	32,38	819,55	126,9	303,59	459,75	1,3344	1,8100
57,0	33,94	33,12	812,45	131,1	305,88	459,07	1,3411	1,8062
58,0	34,69	33,87	805,15	135,4	308,20	458,34	1,3478	1,8023
59,0	35,45	34,63	797,64	139,9	310,56	457,55	1,3546	1,7983
60,0	36,23	35,41	789,89	144,6	312,96	456,71	1,3615	1,7941
61,0	37,02	36,20	781,89	149,6	315,40	455,80	1,3685	1,7897
62,0	37,82	37,01	773,62	154,9	317,89	454,82	1,3757	1,7852
63,0	38,64	37,83	765,04	160,4	320,43	453,77	1,3829	1,7806
64,0	39,47	38,66	756,12	166,2	323,02	452,64	1,3903	1,7757
65,0	40,31	39,52	746,82	172,4	325,68	451,41	1,3978	1,7705
66,0	41,17	40,38	737,11	179,1	328,41	450,08	1,4056	1,7651
67,0	42,04	41,27	726,92	186,1	331,22	448,63	1,4135	1,7594
68,0	42,93	42,17	716,18	193,8	334,12	447,04	1,4216	1,7534
69,0	43,83	43,09	704,81	202,0	337,12	445,30	1,4301	1,7469
70,0	44,75	44,03	692,70	210,9	340,25	443,38	1,4388	1,7400
71,0	45,68	44,99	679,70	220,8	343,53	441,24	1,4479	1,7325
72,0	46,63	45,97	665,60	231,8	346,99	438,83	1,4576	1,7242
73,0	47,59	46,97	650,09	244,2	350,68	436,07	1,4678	1,7150
74,0	48,57	47,99	632,71	258,5	354,69	432,84	1,4790	1,7046
75,0	49,57	49,04	612,61	275,6	359,16	428,96	1,4914	1,6923
76,0	50,58	50,12	588,14	297,3	364,37	424,02	1,5058	1,6770
77,0	51,61	51,25	554,79	328,3	371,11	416,98	1,5246	1,6558
78,0	52,61	52,48	482,32	399,9	384,91	401,25	1,5634	1,6100

Berechnet mit Refprop Version 10.0

Eine Garantie, Gewährleistung oder Haftung für die Richtigkeit, Vollständigkeit und Aktualität der zur Verfügung gestellten Inhalte und Informationen kann nicht übernommen werden.

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