

Temperatur [°C]	Druck [bar]		Dichte [kg/m <sup>3</sup> ]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
-60,0	0,485	0,314	1316,2	1,638	120,91	352,25	0,6757	1,7817
-59,0	0,512	0,333	1313,5	1,731	122,16	352,89	0,6815	1,7794
-58,0	0,541	0,353	1310,8	1,827	123,41	353,53	0,6873	1,7772
-57,0	0,571	0,373	1308,2	1,928	124,66	354,18	0,6931	1,7750
-56,0	0,602	0,395	1305,5	2,034	125,91	354,82	0,6989	1,7729
-55,0	0,634	0,418	1302,8	2,144	127,17	355,46	0,7046	1,7708
-54,0	0,668	0,442	1300,0	2,258	128,42	356,10	0,7104	1,7687
-53,0	0,703	0,467	1297,3	2,378	129,68	356,74	0,7161	1,7667
-52,0	0,740	0,493	1294,6	2,502	130,94	357,38	0,7218	1,7647
-51,0	0,778	0,521	1291,9	2,632	132,20	358,02	0,7275	1,7628
-50,0	0,817	0,549	1289,1	2,767	133,47	358,66	0,7331	1,7609
-49,0	0,859	0,579	1286,3	2,907	134,73	359,30	0,7388	1,7591
-48,0	0,902	0,610	1283,6	3,053	136,00	359,93	0,7444	1,7573
-47,0	0,946	0,643	1280,8	3,205	137,27	360,57	0,7500	1,7555
-46,0	0,992	0,677	1278,0	3,363	138,54	361,21	0,7556	1,7538
-45,0	1,040	0,712	1275,2	3,526	139,82	361,85	0,7612	1,7521
-44,0	1,090	0,749	1272,4	3,696	141,09	362,48	0,7668	1,7504
-43,0	1,142	0,787	1269,6	3,873	142,37	363,12	0,7723	1,7488
-42,0	1,195	0,826	1266,8	4,056	143,65	363,75	0,7778	1,7472
-41,0	1,251	0,868	1263,9	4,246	144,94	364,39	0,7834	1,7456
-40,0	1,308	0,911	1261,1	4,443	146,22	365,02	0,7889	1,7441
-39,0	1,368	0,955	1258,2	4,646	147,51	365,65	0,7944	1,7426
-38,0	1,429	1,002	1255,3	4,858	148,80	366,28	0,7998	1,7411
-37,0	1,493	1,050	1252,4	5,076	150,09	366,91	0,8053	1,7397
-36,0	1,559	1,100	1249,6	5,303	151,39	367,54	0,8108	1,7383
-35,0	1,627	1,151	1246,6	5,537	152,69	368,17	0,8162	1,7369
-34,0	1,698	1,205	1243,7	5,780	153,99	368,80	0,8216	1,7356
-33,0	1,770	1,260	1240,8	6,030	155,29	369,43	0,8270	1,7343
-32,0	1,846	1,318	1237,9	6,290	156,59	370,05	0,8324	1,7330
-31,0	1,923	1,378	1234,9	6,558	157,90	370,67	0,8378	1,7317
-30,0	2,003	1,439	1231,9	6,835	159,21	371,30	0,8432	1,7305
-29,0	2,086	1,503	1229,0	7,121	160,53	371,92	0,8486	1,7293
-28,0	2,171	1,569	1226,0	7,416	161,84	372,54	0,8539	1,7281
-27,0	2,259	1,637	1223,0	7,721	163,16	373,16	0,8593	1,7270
-26,0	2,350	1,708	1220,0	8,036	164,48	373,78	0,8646	1,7258
-25,0	2,443	1,781	1216,9	8,361	165,81	374,39	0,8699	1,7247
-24,0	2,539	1,856	1213,9	8,696	167,14	375,01	0,8752	1,7237
-23,0	2,638	1,934	1210,8	9,042	168,47	375,62	0,8805	1,7226
-22,0	2,740	2,015	1207,8	9,398	169,80	376,23	0,8858	1,7216
-21,0	2,845	2,097	1204,7	9,766	171,14	376,84	0,8911	1,7205
-20,0	2,953	2,183	1201,6	10,14	172,48	377,45	0,8963	1,7195

Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
-19,0	3,064	2,271	1198,5	10,54	173,82	378,06	0,9016	1,7186
-18,0	3,178	2,362	1195,4	10,94	175,17	378,66	0,9069	1,7176
-17,0	3,296	2,456	1192,2	11,35	176,52	379,26	0,9121	1,7167
-16,0	3,416	2,553	1189,1	11,78	177,87	379,86	0,9173	1,7158
-15,0	3,540	2,652	1185,9	12,22	179,23	380,46	0,9226	1,7149
-14,0	3,668	2,755	1182,7	12,67	180,59	381,06	0,9278	1,7140
-13,0	3,798	2,860	1179,5	13,14	181,95	381,65	0,9330	1,7131
-12,0	3,933	2,969	1176,3	13,61	183,32	382,24	0,9382	1,7123
-11,0	4,071	3,081	1173,1	14,11	184,69	382,84	0,9434	1,7115
-10,0	4,212	3,196	1169,8	14,61	186,06	383,42	0,9486	1,7106
-9,0	4,357	3,314	1166,5	15,13	187,44	384,01	0,9537	1,7098
-8,0	4,506	3,436	1163,3	15,67	188,82	384,59	0,9589	1,7091
-7,0	4,658	3,561	1160,0	16,22	190,21	385,17	0,9641	1,7083
-6,0	4,815	3,689	1156,6	16,79	191,59	385,75	0,9692	1,7075
-5,0	4,975	3,821	1153,3	17,37	192,98	386,32	0,9744	1,7068
-4,0	5,139	3,957	1149,9	17,97	194,38	386,90	0,9795	1,7061
-3,0	5,308	4,096	1146,6	18,59	195,78	387,47	0,9846	1,7054
-2,0	5,480	4,239	1143,2	19,22	197,18	388,03	0,9898	1,7047
-1,0	5,657	4,386	1139,7	19,87	198,59	388,60	0,9949	1,7040
0,0	5,837	4,537	1136,3	20,54	200,00	389,16	1,0000	1,7033
1,0	6,022	4,692	1132,9	21,22	201,41	389,71	1,0051	1,7026
2,0	6,212	4,850	1129,4	21,93	202,83	390,27	1,0102	1,7020
3,0	6,406	5,013	1125,9	22,65	204,26	390,82	1,0153	1,7013
4,0	6,604	5,180	1122,4	23,39	205,68	391,37	1,0204	1,7007
5,0	6,806	5,351	1118,8	24,15	207,11	391,91	1,0255	1,7000
6,0	7,014	5,526	1115,2	24,94	208,55	392,45	1,0306	1,6994
7,0	7,226	5,706	1111,7	25,74	209,99	392,99	1,0357	1,6988
8,0	7,442	5,890	1108,0	26,57	211,43	393,52	1,0407	1,6982
9,0	7,664	6,078	1104,4	27,41	212,88	394,05	1,0458	1,6976
10,0	7,890	6,271	1100,7	28,28	214,34	394,57	1,0509	1,6970
11,0	8,121	6,469	1097,1	29,18	215,79	395,09	1,0559	1,6964
12,0	8,357	6,672	1093,3	30,09	217,26	395,61	1,0610	1,6958
13,0	8,598	6,879	1089,6	31,03	218,72	396,12	1,0661	1,6952
14,0	8,844	7,091	1085,8	32,00	220,19	396,63	1,0711	1,6946
15,0	9,095	7,308	1082,0	32,99	221,67	397,13	1,0762	1,6941
16,0	9,352	7,530	1078,2	34,01	223,15	397,63	1,0812	1,6935
17,0	9,613	7,758	1074,4	35,05	224,64	398,12	1,0863	1,6929
18,0	9,881	7,990	1070,5	36,12	226,13	398,61	1,0913	1,6923
19,0	10,15	8,228	1066,6	37,22	227,63	399,09	1,0964	1,6918
20,0	10,43	8,471	1062,6	38,35	229,13	399,57	1,1014	1,6912

Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
21,0	10,71	8,719	1058,7	39,51	230,63	400,04	1,1064	1,6906
22,0	11,00	8,973	1054,7	40,70	232,15	400,51	1,1115	1,6901
23,0	11,30	9,232	1050,6	41,92	233,66	400,97	1,1165	1,6895
24,0	11,60	9,498	1046,6	43,17	235,19	401,42	1,1216	1,6889
25,0	11,91	9,769	1042,4	44,45	236,72	401,87	1,1266	1,6884
26,0	12,22	10,05	1038,3	45,77	238,25	402,31	1,1316	1,6878
27,0	12,54	10,33	1034,1	47,13	239,79	402,74	1,1367	1,6872
28,0	12,86	10,62	1029,9	48,52	241,34	403,17	1,1417	1,6866
29,0	13,19	10,91	1025,6	49,95	242,89	403,59	1,1467	1,6860
30,0	13,53	11,21	1021,4	51,41	244,45	404,01	1,1518	1,6854
31,0	13,87	11,52	1017,0	52,92	246,01	404,41	1,1568	1,6848
32,0	14,22	11,84	1012,6	54,46	247,59	404,81	1,1619	1,6842
33,0	14,57	12,16	1008,2	56,05	249,16	405,20	1,1669	1,6836
34,0	14,93	12,48	1003,7	57,68	250,75	405,59	1,1720	1,6830
35,0	15,30	12,82	999,22	59,36	252,34	405,96	1,1770	1,6823
36,0	15,68	13,16	994,65	61,08	253,94	406,33	1,1821	1,6817
37,0	16,06	13,50	990,04	62,85	255,55	406,68	1,1872	1,6810
38,0	16,44	13,86	985,37	64,67	257,17	407,03	1,1922	1,6804
39,0	16,84	14,22	980,64	66,54	258,79	407,37	1,1973	1,6797
40,0	17,24	14,59	975,86	68,47	260,42	407,70	1,2024	1,6790
41,0	17,65	14,97	971,02	70,45	262,06	408,01	1,2075	1,6783
42,0	18,06	15,35	966,12	72,48	263,71	408,32	1,2126	1,6775
43,0	18,48	15,74	961,16	74,58	265,37	408,62	1,2177	1,6768
44,0	18,91	16,14	956,13	76,73	267,04	408,90	1,2229	1,6760
45,0	19,35	16,55	951,02	78,95	268,71	409,17	1,2280	1,6752
46,0	19,79	16,96	945,85	81,24	270,40	409,43	1,2331	1,6744
47,0	20,24	17,38	940,60	83,60	272,10	409,68	1,2383	1,6736
48,0	20,70	17,82	935,27	86,03	273,81	409,92	1,2435	1,6727
49,0	21,17	18,25	929,86	88,53	275,52	410,13	1,2487	1,6718
50,0	21,64	18,70	924,35	91,12	277,26	410,34	1,2539	1,6709
51,0	22,12	19,16	918,76	93,78	279,00	410,53	1,2591	1,6700
52,0	22,61	19,62	913,07	96,54	280,75	410,70	1,2643	1,6690
53,0	23,10	20,10	907,28	99,38	282,52	410,86	1,2696	1,6680
54,0	23,61	20,58	901,38	102,3	284,31	411,00	1,2749	1,6670
55,0	24,12	21,08	895,36	105,4	286,10	411,12	1,2802	1,6659
56,0	24,64	21,58	889,23	108,5	287,91	411,22	1,2855	1,6648
57,0	25,17	22,09	882,97	111,8	289,74	411,30	1,2909	1,6636
58,0	25,70	22,61	876,58	115,1	291,59	411,36	1,2963	1,6624
59,0	26,24	23,14	870,05	118,6	293,45	411,40	1,3017	1,6611
60,0	26,80	23,68	863,37	122,3	295,33	411,41	1,3072	1,6598

Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
61,0	27,36	24,24	856,53	126,0	297,23	411,40	1,3127	1,6585
62,0	27,92	24,80	849,52	130,0	299,15	411,36	1,3182	1,6570
63,0	28,50	25,37	842,33	134,0	301,09	411,29	1,3238	1,6555
64,0	29,08	25,96	834,95	138,3	303,05	411,19	1,3294	1,6539
65,0	29,68	26,56	827,35	142,7	305,04	411,06	1,3351	1,6523
66,0	30,28	27,16	819,54	147,4	307,06	410,89	1,3409	1,6506
67,0	30,89	27,78	811,48	152,2	309,11	410,68	1,3467	1,6487
68,0	31,51	28,42	803,16	157,3	311,19	410,44	1,3525	1,6468
69,0	32,13	29,06	794,56	162,7	313,30	410,14	1,3585	1,6448
70,0	32,77	29,72	785,64	168,3	315,45	409,80	1,3645	1,6426
71,0	33,41	30,39	776,37	174,3	317,64	409,40	1,3707	1,6403
72,0	34,06	31,08	766,72	180,6	319,88	408,94	1,3769	1,6378
73,0	34,72	31,78	756,63	187,2	322,17	408,41	1,3833	1,6352
74,0	35,39	32,50	746,06	194,4	324,52	407,81	1,3898	1,6324
75,0	36,07	33,23	734,93	202,0	326,93	407,12	1,3965	1,6293
76,0	36,75	33,99	723,15	210,2	329,43	406,34	1,4034	1,6260
77,0	37,45	34,75	710,61	219,1	332,01	405,44	1,4105	1,6224
78,0	38,15	35,54	697,16	228,9	334,70	404,40	1,4179	1,6185
79,0	38,85	36,35	682,59	239,6	337,53	403,19	1,4256	1,6141
80,0	39,56	37,19	666,62	251,6	340,53	401,79	1,4338	1,6091
81,0	40,27	38,05	648,81	265,2	343,75	400,12	1,4426	1,6034
82,0	40,99	38,94	628,47	281,0	347,29	398,09	1,4523	1,5968
83,0	41,69	39,88	604,33	300,2	351,29	395,54	1,4632	1,5887
84,0	42,37	40,87	573,75	324,9	356,11	392,13	1,4764	1,5783
85,0	42,99	41,97	528,77	362,1	362,82	386,83	1,4949	1,5626

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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