

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	0,426	0,308	1454,6	1,947	125,56	322,29	0,6945	1,6313
-59,0	0,451	0,328	1451,5	2,063	126,75	322,91	0,7000	1,6297
-58,0	0,476	0,348	1448,4	2,184	127,93	323,53	0,7055	1,6280
-57,0	0,503	0,370	1445,3	2,311	129,11	324,15	0,7110	1,6265
-56,0	0,531	0,393	1442,2	2,443	130,30	324,77	0,7165	1,6249
-55,0	0,561	0,416	1439,1	2,582	131,49	325,39	0,7219	1,6234
-54,0	0,591	0,441	1435,9	2,726	132,68	326,01	0,7274	1,6220
-53,0	0,623	0,467	1432,8	2,877	133,87	326,63	0,7328	1,6205
-52,0	0,656	0,495	1429,7	3,035	135,06	327,25	0,7382	1,6191
-51,0	0,691	0,523	1426,5	3,199	136,25	327,87	0,7435	1,6178
-50,0	0,727	0,553	1423,4	3,371	137,45	328,49	0,7489	1,6165
-49,0	0,764	0,585	1420,2	3,549	138,64	329,11	0,7542	1,6152
-48,0	0,803	0,617	1417,1	3,735	139,84	329,73	0,7596	1,6140
-47,0	0,844	0,651	1413,9	3,929	141,04	330,34	0,7649	1,6128
-46,0	0,886	0,687	1410,7	4,130	142,25	330,96	0,7702	1,6116
-45,0	0,930	0,724	1407,5	4,339	143,45	331,58	0,7754	1,6105
-44,0	0,976	0,763	1404,3	4,557	144,66	332,19	0,7807	1,6093
-43,0	1,023	0,803	1401,1	4,783	145,86	332,81	0,7859	1,6083
-42,0	1,072	0,845	1397,9	5,018	147,07	333,42	0,7912	1,6072
-41,0	1,123	0,888	1394,6	5,262	148,28	334,04	0,7964	1,6062
-40,0	1,176	0,934	1391,4	5,515	149,50	334,65	0,8016	1,6052
-39,0	1,231	0,981	1388,2	5,778	150,71	335,26	0,8068	1,6043
-38,0	1,287	1,030	1384,9	6,050	151,93	335,87	0,8119	1,6033
-37,0	1,346	1,081	1381,6	6,332	153,15	336,48	0,8171	1,6024
-36,0	1,407	1,134	1378,3	6,625	154,37	337,09	0,8222	1,6015
-35,0	1,470	1,189	1375,0	6,928	155,60	337,70	0,8274	1,6007
-34,0	1,535	1,246	1371,7	7,241	156,82	338,31	0,8325	1,5999
-33,0	1,602	1,305	1368,4	7,566	158,05	338,91	0,8376	1,5991
-32,0	1,672	1,367	1365,1	7,902	159,28	339,52	0,8427	1,5983
-31,0	1,744	1,430	1361,8	8,250	160,51	340,12	0,8478	1,5975
-30,0	1,818	1,496	1358,4	8,610	161,75	340,73	0,8528	1,5968
-29,0	1,895	1,564	1355,0	8,982	162,98	341,33	0,8579	1,5961
-28,0	1,974	1,635	1351,7	9,366	164,22	341,93	0,8629	1,5954
-27,0	2,056	1,708	1348,3	9,763	165,46	342,53	0,8679	1,5947
-26,0	2,140	1,783	1344,9	10,17	166,71	343,12	0,8730	1,5941
-25,0	2,227	1,861	1341,5	10,60	167,95	343,72	0,8780	1,5934
-24,0	2,317	1,942	1338,0	11,03	169,20	344,31	0,8830	1,5928
-23,0	2,410	2,025	1334,6	11,49	170,45	344,91	0,8879	1,5922
-22,0	2,505	2,111	1331,1	11,95	171,71	345,50	0,8929	1,5917
-21,0	2,603	2,200	1327,6	12,43	172,96	346,09	0,8979	1,5911
-20,0	2,704	2,292	1324,2	12,93	174,22	346,68	0,9028	1,5906

Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
-19,0	2,808	2,387	1320,6	13,44	175,48	347,26	0,9078	1,5900
-18,0	2,916	2,484	1317,1	13,97	176,75	347,85	0,9127	1,5895
-17,0	3,026	2,585	1313,6	14,51	178,01	348,43	0,9176	1,5891
-16,0	3,139	2,688	1310,0	15,07	179,28	349,01	0,9225	1,5886
-15,0	3,256	2,795	1306,4	15,64	180,55	349,59	0,9274	1,5881
-14,0	3,376	2,905	1302,9	16,24	181,83	350,16	0,9323	1,5877
-13,0	3,499	3,019	1299,2	16,85	183,11	350,74	0,9372	1,5873
-12,0	3,625	3,135	1295,6	17,48	184,39	351,31	0,9421	1,5868
-11,0	3,755	3,256	1292,0	18,13	185,67	351,88	0,9470	1,5864
-10,0	3,889	3,379	1288,3	18,79	186,96	352,45	0,9518	1,5861
-9,0	4,026	3,506	1284,6	19,48	188,25	353,01	0,9567	1,5857
-8,0	4,167	3,637	1280,9	20,19	189,54	353,57	0,9615	1,5853
-7,0	4,311	3,771	1277,2	20,91	190,84	354,13	0,9663	1,5850
-6,0	4,460	3,909	1273,4	21,66	192,14	354,69	0,9712	1,5846
-5,0	4,612	4,051	1269,7	22,43	193,44	355,25	0,9760	1,5843
-4,0	4,768	4,197	1265,9	23,22	194,74	355,80	0,9808	1,5840
-3,0	4,928	4,347	1262,1	24,03	196,05	356,35	0,9856	1,5837
-2,0	5,091	4,500	1258,2	24,87	197,36	356,90	0,9904	1,5834
-1,0	5,259	4,658	1254,4	25,73	198,68	357,44	0,9952	1,5831
0,0	5,432	4,820	1250,5	26,61	200,00	357,98	1,0000	1,5828
1,0	5,608	4,986	1246,6	27,52	201,32	358,52	1,0048	1,5825
2,0	5,788	5,156	1242,7	28,45	202,65	359,05	1,0096	1,5822
3,0	5,973	5,331	1238,7	29,41	203,98	359,58	1,0143	1,5820
4,0	6,163	5,510	1234,7	30,40	205,31	360,11	1,0191	1,5817
5,0	6,357	5,694	1230,7	31,41	206,65	360,63	1,0239	1,5814
6,0	6,555	5,882	1226,7	32,45	207,99	361,15	1,0286	1,5812
7,0	6,758	6,075	1222,6	33,52	209,34	361,67	1,0334	1,5809
8,0	6,966	6,272	1218,5	34,62	210,69	362,18	1,0381	1,5807
9,0	7,178	6,475	1214,4	35,74	212,04	362,69	1,0429	1,5805
10,0	7,395	6,682	1210,2	36,90	213,40	363,19	1,0476	1,5802
11,0	7,617	6,894	1206,0	38,09	214,76	363,69	1,0523	1,5800
12,0	7,844	7,111	1201,8	39,31	216,13	364,19	1,0571	1,5798
13,0	8,076	7,333	1197,5	40,57	217,50	364,68	1,0618	1,5795
14,0	8,313	7,560	1193,2	41,86	218,87	365,17	1,0665	1,5793
15,0	8,556	7,793	1188,9	43,18	220,25	365,65	1,0713	1,5791
16,0	8,803	8,031	1184,5	44,54	221,64	366,12	1,0760	1,5789
17,0	9,056	8,274	1180,1	45,94	223,03	366,60	1,0807	1,5786
18,0	9,314	8,523	1175,7	47,38	224,42	367,06	1,0854	1,5784
19,0	9,578	8,777	1171,2	48,85	225,82	367,52	1,0901	1,5782
20,0	9,847	9,037	1166,7	50,36	227,23	367,98	1,0949	1,5779

Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
21,0	10,12	9,303	1162,1	51,92	228,63	368,43	1,0996	1,5777
22,0	10,40	9,574	1157,5	53,52	230,05	368,87	1,1043	1,5774
23,0	10,69	9,852	1152,9	55,16	231,47	369,30	1,1090	1,5772
24,0	10,98	10,14	1148,2	56,85	232,90	369,74	1,1137	1,5769
25,0	11,28	10,42	1143,4	58,58	234,33	370,16	1,1185	1,5767
26,0	11,58	10,72	1138,6	60,36	235,76	370,58	1,1232	1,5764
27,0	11,89	11,02	1133,8	62,20	237,21	370,99	1,1279	1,5761
28,0	12,21	11,33	1128,9	64,08	238,66	371,39	1,1326	1,5759
29,0	12,53	11,64	1124,0	66,01	240,11	371,78	1,1374	1,5756
30,0	12,86	11,96	1119,0	68,00	241,57	372,17	1,1421	1,5753
31,0	13,20	12,29	1113,9	70,05	243,04	372,55	1,1468	1,5749
32,0	13,54	12,63	1108,8	72,16	244,52	372,92	1,1516	1,5746
33,0	13,89	12,97	1103,6	74,32	246,00	373,29	1,1563	1,5743
34,0	14,24	13,31	1098,3	76,55	247,49	373,64	1,1611	1,5739
35,0	14,60	13,67	1093,0	78,85	248,99	373,98	1,1658	1,5736
36,0	14,97	14,03	1087,6	81,21	250,49	374,32	1,1706	1,5732
37,0	15,35	14,40	1082,2	83,64	252,01	374,64	1,1754	1,5728
38,0	15,73	14,78	1076,6	86,14	253,53	374,96	1,1802	1,5724
39,0	16,12	15,16	1071,0	88,72	255,06	375,27	1,1850	1,5720
40,0	16,51	15,55	1065,3	91,38	256,59	375,56	1,1898	1,5715
41,0	16,92	15,95	1059,5	94,12	258,14	375,84	1,1946	1,5710
42,0	17,33	16,36	1053,7	96,95	259,70	376,11	1,1994	1,5706
43,0	17,75	16,77	1047,7	99,87	261,26	376,37	1,2042	1,5700
44,0	18,17	17,19	1041,7	102,9	262,84	376,62	1,2091	1,5695
45,0	18,60	17,62	1035,5	106,0	264,43	376,85	1,2139	1,5689
46,0	19,05	18,06	1029,2	109,2	266,02	377,06	1,2188	1,5683
47,0	19,49	18,51	1022,9	112,5	267,63	377,27	1,2237	1,5677
48,0	19,95	18,96	1016,4	116,0	269,26	377,45	1,2286	1,5671
49,0	20,42	19,42	1009,8	119,5	270,89	377,63	1,2336	1,5664
50,0	20,89	19,89	1003,0	123,2	272,54	377,78	1,2385	1,5656
51,0	21,37	20,38	996,11	127,0	274,20	377,91	1,2435	1,5649
52,0	21,86	20,86	989,08	131,0	275,87	378,03	1,2485	1,5641
53,0	22,36	21,36	981,88	135,1	277,56	378,13	1,2536	1,5632
54,0	22,86	21,87	974,52	139,3	279,27	378,20	1,2586	1,5623
55,0	23,38	22,39	966,98	143,8	280,99	378,25	1,2637	1,5613
56,0	23,90	22,91	959,25	148,4	282,73	378,28	1,2689	1,5603
57,0	24,44	23,45	951,32	153,2	284,49	378,28	1,2740	1,5592
58,0	24,98	24,00	943,16	158,2	286,28	378,25	1,2792	1,5581
59,0	25,53	24,55	934,76	163,5	288,08	378,19	1,2845	1,5569
60,0	26,09	25,12	926,11	169,0	289,91	378,10	1,2898	1,5556

Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
61,0	26,66	25,70	917,17	174,7	291,76	377,97	1,2952	1,5542
62,0	27,24	26,28	907,92	180,8	293,65	377,80	1,3006	1,5527
63,0	27,83	26,88	898,33	187,2	295,56	377,59	1,3061	1,5511
64,0	28,43	27,49	888,36	193,9	297,51	377,33	1,3117	1,5494
65,0	29,04	28,12	877,96	201,1	299,49	377,02	1,3174	1,5475
66,0	29,66	28,75	867,08	208,7	301,52	376,64	1,3232	1,5455
67,0	30,29	29,40	855,66	216,8	303,60	376,20	1,3291	1,5433
68,0	30,93	30,05	843,61	225,5	305,73	375,69	1,3351	1,5409
69,0	31,58	30,73	830,83	234,9	307,93	375,08	1,3413	1,5383
70,0	32,24	31,41	817,17	245,1	310,20	374,37	1,3477	1,5354
71,0	32,91	32,11	802,47	256,2	312,57	373,53	1,3544	1,5321
72,0	33,59	32,83	786,45	268,6	315,05	372,54	1,3613	1,5284
73,0	34,29	33,56	768,75	282,5	317,67	371,35	1,3686	1,5242
74,0	34,99	34,31	748,76	298,4	320,49	369,90	1,3765	1,5193
75,0	35,71	35,08	725,46	317,3	323,60	368,09	1,3852	1,5134
76,0	36,43	35,88	696,79	340,7	327,18	365,71	1,3952	1,5058
77,0	37,16	36,71	657,36	372,8	331,72	362,27	1,4078	1,4954
78,0	37,85	37,61	578,64	433,8	339,93	355,45	1,4309	1,4752

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.

Überarbeitet 08.01.2020

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Deutsche Bank Würzburg

IBAN: DE707907001600202804 00  
 BIC: DEUTDEMM790