

R 413A



Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
-30,000	1,1735	0,92542	1341,3	4,9581	160,71	368,27	0,84844	1,7083
-29,000	1,2244	0,96999	1338,3	5,1828	161,98	368,91	0,85365	1,7074
-28,000	1,2770	1,0162	1335,3	5,4154	163,26	369,55	0,85886	1,7064
-27,000	1,3314	1,0642	1332,3	5,6563	164,54	370,19	0,86405	1,7055
-26,000	1,3876	1,1140	1329,3	5,9056	165,82	370,83	0,86923	1,7046
-25,000	1,4457	1,1655	1326,3	6,1634	167,10	371,47	0,87439	1,7037
-24,000	1,5057	1,2190	1323,3	6,4301	168,39	372,11	0,87955	1,7028
-23,000	1,5677	1,2743	1320,3	6,7058	169,68	372,74	0,88469	1,7020
-22,000	1,6317	1,3316	1317,2	6,9908	170,97	373,37	0,88982	1,7012
-21,000	1,6977	1,3909	1314,2	7,2853	172,26	374,01	0,89494	1,7004
-20,000	1,7658	1,4523	1311,1	7,5894	173,56	374,64	0,90004	1,6997
-19,000	1,8360	1,5157	1308,0	7,9036	174,85	375,27	0,90514	1,6989
-18,000	1,9085	1,5813	1304,9	8,2279	176,15	375,90	0,91022	1,6982
-17,000	1,9832	1,6491	1301,8	8,5626	177,46	376,53	0,91529	1,6975
-16,000	2,0601	1,7192	1298,7	8,9080	178,76	377,15	0,92036	1,6968
-15,000	2,1394	1,7915	1295,6	9,2643	180,07	377,78	0,92541	1,6961
-14,000	2,2211	1,8662	1292,5	9,6318	181,38	378,40	0,93045	1,6955
-13,000	2,3051	1,9433	1289,3	10,011	182,69	379,02	0,93548	1,6949
-12,000	2,3917	2,0228	1286,2	10,401	184,01	379,64	0,94050	1,6942
-11,000	2,4808	2,1049	1283,0	10,804	185,32	380,26	0,94551	1,6936
-10,000	2,5724	2,1895	1279,8	11,219	186,64	380,88	0,95051	1,6931
-9,0000	2,6667	2,2767	1276,6	11,646	187,97	381,49	0,95550	1,6925
-8,0000	2,7636	2,3665	1273,4	12,087	189,29	382,10	0,96048	1,6920
-7,0000	2,8633	2,4591	1270,2	12,540	190,62	382,71	0,96545	1,6914
-6,0000	2,9657	2,5545	1267,0	13,007	191,95	383,32	0,97041	1,6909
-5,0000	3,0710	2,6527	1263,7	13,487	193,29	383,93	0,97536	1,6904
-4,0000	3,1792	2,7538	1260,5	13,982	194,62	384,53	0,98031	1,6899
-3,0000	3,2902	2,8578	1257,2	14,490	195,96	385,14	0,98524	1,6894
-2,0000	3,4043	2,9648	1253,9	15,014	197,31	385,74	0,99017	1,6890
-1,0000	3,5214	3,0748	1250,6	15,552	198,65	386,34	0,99509	1,6885
0,00000	3,6416	3,1880	1247,2	16,106	200,00	386,93	1,0000	1,6881
1,0000	3,7650	3,3043	1243,9	16,675	201,35	387,53	1,0049	1,6877
2,0000	3,8915	3,4238	1240,5	17,261	202,71	388,12	1,0098	1,6873
3,0000	4,0214	3,5466	1237,2	17,863	204,06	388,71	1,0147	1,6869
4,0000	4,1545	3,6728	1233,8	18,481	205,42	389,29	1,0196	1,6865
5,0000	4,2910	3,8024	1230,4	19,117	206,79	389,88	1,0244	1,6861
6,0000	4,4309	3,9354	1226,9	19,770	208,16	390,46	1,0293	1,6857
7,0000	4,5743	4,0719	1223,5	20,441	209,53	391,03	1,0342	1,6854
8,0000	4,7213	4,2120	1220,0	21,131	210,90	391,61	1,0390	1,6850
9,0000	4,8718	4,3558	1216,5	21,839	212,28	392,18	1,0439	1,6847
10,000	5,0260	4,5032	1213,0	22,566	213,66	392,75	1,0487	1,6843
11,000	5,1839	4,6544	1209,5	23,313	215,04	393,32	1,0535	1,6840
12,000	5,3456	4,8095	1206,0	24,080	216,43	393,88	1,0584	1,6837
13,000	5,5111	4,9684	1202,4	24,868	217,82	394,44	1,0632	1,6834
14,000	5,6805	5,1312	1198,8	25,677	219,22	395,00	1,0680	1,6831

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15,000	5,8539	5,2981	1195,2	26,506	220,61	395,55	1,0728	1,6828
16,000	6,0313	5,4691	1191,6	27,358	222,02	396,10	1,0776	1,6825
17,000	6,2127	5,6441	1187,9	28,233	223,42	396,65	1,0824	1,6822
18,000	6,3983	5,8234	1184,2	29,130	224,83	397,19	1,0872	1,6819
19,000	6,5881	6,0070	1180,5	30,051	226,24	397,73	1,0920	1,6816
20,000	6,7821	6,1949	1176,8	30,997	227,66	398,27	1,0968	1,6814
21,000	6,9805	6,3871	1173,1	31,967	229,08	398,80	1,1016	1,6811
22,000	7,1832	6,5839	1169,3	32,962	230,51	399,33	1,1064	1,6808
23,000	7,3904	6,7852	1165,5	33,983	231,94	399,85	1,1111	1,6806
24,000	7,6021	6,9910	1161,6	35,031	233,37	400,37	1,1159	1,6803
25,000	7,8184	7,2016	1157,8	36,106	234,81	400,89	1,1207	1,6800
26,000	8,0393	7,4169	1153,9	37,209	236,26	401,40	1,1254	1,6798
27,000	8,2649	7,6369	1150,0	38,340	237,70	401,91	1,1302	1,6795
28,000	8,4953	7,8619	1146,0	39,501	239,15	402,41	1,1350	1,6793
29,000	8,7305	8,0918	1142,1	40,692	240,61	402,90	1,1397	1,6790
30,000	8,9706	8,3267	1138,0	41,914	242,07	403,40	1,1445	1,6788
31,000	9,2157	8,5666	1134,0	43,168	243,54	403,88	1,1492	1,6785
32,000	9,4659	8,8117	1129,9	44,455	245,01	404,37	1,1540	1,6783
33,000	9,7211	9,0621	1125,8	45,774	246,49	404,84	1,1588	1,6780
34,000	9,9815	9,3177	1121,7	47,129	247,97	405,31	1,1635	1,6778
35,000	10,247	9,5787	1117,5	48,518	249,45	405,78	1,1683	1,6775
36,000	10,518	9,8452	1113,3	49,944	250,94	406,24	1,1730	1,6772
37,000	10,795	10,117	1109,0	51,408	252,44	406,69	1,1778	1,6770
38,000	11,076	10,395	1104,7	52,909	253,94	407,14	1,1825	1,6767
39,000	11,364	10,678	1100,4	54,451	255,45	407,58	1,1873	1,6764
40,000	11,657	10,967	1096,0	56,033	256,97	408,02	1,1920	1,6761
41,000	11,955	11,262	1091,6	57,657	258,49	408,44	1,1968	1,6758
42,000	12,260	11,562	1087,1	59,325	260,01	408,87	1,2016	1,6755
43,000	12,570	11,869	1082,6	61,037	261,55	409,28	1,2063	1,6752
44,000	12,886	12,182	1078,1	62,795	263,08	409,69	1,2111	1,6749
45,000	13,208	12,501	1073,5	64,601	264,63	410,08	1,2159	1,6746
46,000	13,536	12,826	1068,8	66,456	266,18	410,48	1,2206	1,6743
47,000	13,870	13,157	1064,1	68,362	267,74	410,86	1,2254	1,6739
48,000	14,211	13,495	1059,4	70,320	269,31	411,23	1,2302	1,6736
49,000	14,558	13,839	1054,5	72,333	270,88	411,60	1,2350	1,6732
50,000	14,911	14,190	1049,7	74,402	272,46	411,96	1,2398	1,6728
51,000	15,270	14,547	1044,7	76,529	274,05	412,30	1,2446	1,6725
52,000	15,637	14,911	1039,8	78,717	275,65	412,64	1,2494	1,6721
53,000	16,009	15,282	1034,7	80,968	277,25	412,97	1,2542	1,6716
54,000	16,389	15,660	1029,6	83,283	278,87	413,28	1,2590	1,6712
55,000	16,775	16,045	1024,4	85,667	280,49	413,59	1,2639	1,6707
56,000	17,168	16,437	1019,1	88,121	282,12	413,88	1,2687	1,6703
57,000	17,568	16,836	1013,8	90,649	283,76	414,17	1,2736	1,6698
58,000	17,975	17,242	1008,4	93,253	285,41	414,44	1,2785	1,6692
59,000	18,390	17,656	1002,9	95,937	287,07	414,70	1,2833	1,6687
60,000	18,811	18,078	997,27	98,705	288,74	414,94	1,2882	1,6681
61,000	19,240	18,506	991,60	101,56	290,42	415,17	1,2931	1,6675
62,000	19,676	18,943	985,84	104,51	292,11	415,38	1,2981	1,6669

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63,000	20,120	19,387	979,97	107,55	293,81	415,58	1,3030	1,6663
64,000	20,572	19,840	974,00	110,69	295,53	415,77	1,3080	1,6656
65,000	21,031	20,300	967,93	113,94	297,26	415,93	1,3129	1,6649
66,000	21,498	20,769	961,74	117,31	299,00	416,08	1,3179	1,6641
67,000	21,973	21,245	955,43	120,79	300,76	416,21	1,3230	1,6633
68,000	22,456	21,731	948,99	124,39	302,53	416,32	1,3280	1,6625
69,000	22,947	22,224	942,42	128,13	304,31	416,41	1,3331	1,6616
70,000	23,447	22,727	935,71	132,01	306,11	416,48	1,3382	1,6606
71,000	23,955	23,238	928,84	136,03	307,93	416,52	1,3433	1,6597
72,000	24,471	23,758	921,81	140,22	309,77	416,54	1,3485	1,6586
73,000	24,996	24,287	914,60	144,58	311,63	416,53	1,3537	1,6575
74,000	25,530	24,826	907,21	149,12	313,50	416,49	1,3589	1,6563
75,000	26,073	25,373	899,61	153,85	315,40	416,42	1,3642	1,6551
76,000	26,625	25,931	891,79	158,80	317,32	416,32	1,3696	1,6538
77,000	27,186	26,498	883,74	163,98	319,27	416,18	1,3750	1,6524
78,000	27,756	27,075	875,42	169,41	321,25	416,00	1,3804	1,6509
79,000	28,336	27,663	866,83	175,11	323,25	415,78	1,3859	1,6493
80,000	28,926	28,260	857,91	181,12	325,29	415,51	1,3915	1,6476
81,000	29,525	28,869	848,65	187,46	327,37	415,19	1,3972	1,6457
82,000	30,134	29,488	839,00	194,17	329,48	414,81	1,4029	1,6438
83,000	30,754	30,119	828,91	201,30	331,64	414,37	1,4088	1,6416
84,000	31,384	30,760	818,33	208,90	333,85	413,86	1,4148	1,6393
85,000	32,024	31,414	807,17	217,04	336,12	413,26	1,4209	1,6368
86,000	32,675	32,080	795,35	225,81	338,45	412,57	1,4272	1,6340
87,000	33,336	32,759	782,74	235,32	340,87	411,77	1,4337	1,6310
88,000	34,009	33,451	769,18	245,72	343,38	410,83	1,4404	1,6276
89,000	34,693	34,157	754,44	257,21	346,01	409,73	1,4474	1,6237
90,000	35,389	34,877	738,20	270,08	348,79	408,43	1,4548	1,6194

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