

# R 410A



Temperatur [°C]	Druck [bar]		Dichte [kg/m³]		Enthalpie [kJ/kg]		Entropie [J/kg*K]	
	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig	flüssig	gasförmig
-30,000	2,7031	2,6935	1279,7	10,549	156,24	409,80	0,83208	1,8750
-29,000	2,8162	2,8062	1276,3	10,972	157,65	410,25	0,83784	1,8725
-28,000	2,9329	2,9226	1272,9	11,408	159,06	410,70	0,84358	1,8701
-27,000	3,0534	3,0426	1269,4	11,857	160,48	411,14	0,84931	1,8677
-26,000	3,1776	3,1665	1266,0	12,321	161,90	411,58	0,85503	1,8654
-25,000	3,3057	3,2941	1262,5	12,799	163,32	412,02	0,86074	1,8630
-24,000	3,4377	3,4257	1259,1	13,292	164,75	412,45	0,86643	1,8607
-23,000	3,5738	3,5613	1255,6	13,800	166,18	412,88	0,87211	1,8584
-22,000	3,7139	3,7010	1252,1	14,323	167,61	413,31	0,87777	1,8562
-21,000	3,8582	3,8449	1248,6	14,861	169,04	413,73	0,88343	1,8539
-20,000	4,0069	3,9930	1245,0	15,416	170,48	414,14	0,88907	1,8517
-19,000	4,1598	4,1455	1241,5	15,988	171,92	414,55	0,89470	1,8495
-18,000	4,3172	4,3024	1237,9	16,576	173,37	414,96	0,90032	1,8473
-17,000	4,4791	4,4638	1234,3	17,182	174,81	415,36	0,90593	1,8451
-16,000	4,6456	4,6298	1230,7	17,805	176,26	415,76	0,91153	1,8430
-15,000	4,8168	4,8004	1227,1	18,447	177,72	416,15	0,91712	1,8408
-14,000	4,9927	4,9758	1223,4	19,107	179,18	416,54	0,92270	1,8387
-13,000	5,1735	5,1561	1219,7	19,786	180,64	416,92	0,92827	1,8366
-12,000	5,3593	5,3412	1216,0	20,485	182,10	417,30	0,93383	1,8345
-11,000	5,5501	5,5314	1212,3	21,203	183,57	417,67	0,93938	1,8325
-10,000	5,7460	5,7268	1208,6	21,942	185,04	418,04	0,94493	1,8304
-9,0000	5,9472	5,9273	1204,8	22,702	186,52	418,40	0,95047	1,8284
-8,0000	6,1536	6,1331	1201,1	23,484	188,00	418,76	0,95600	1,8264
-7,0000	6,3654	6,3442	1197,3	24,287	189,48	419,11	0,96152	1,8244
-6,0000	6,5828	6,5609	1193,4	25,113	190,97	419,45	0,96703	1,8224
-5,0000	6,8057	6,7831	1189,6	25,962	192,47	419,79	0,97254	1,8204
-4,0000	7,0342	7,0110	1185,7	26,835	193,96	420,12	0,97804	1,8184
-3,0000	7,2686	7,2446	1181,8	27,732	195,47	420,45	0,98354	1,8164
-2,0000	7,5087	7,4840	1177,9	28,654	196,97	420,77	0,98903	1,8145
-1,0000	7,7549	7,7294	1173,9	29,601	198,48	421,08	0,99452	1,8125
0,00000	8,0071	7,9808	1169,9	30,575	200,00	421,39	1,0000	1,8106
1,0000	8,2654	8,2384	1165,9	31,575	201,52	421,69	1,0055	1,8086
2,0000	8,5299	8,5021	1161,9	32,603	203,05	421,98	1,0110	1,8067
3,0000	8,8008	8,7722	1157,8	33,659	204,58	422,27	1,0164	1,8048
4,0000	9,0782	9,0487	1153,7	34,744	206,11	422,54	1,0219	1,8029
5,0000	9,3621	9,3318	1149,6	35,859	207,66	422,81	1,0274	1,8010
6,0000	9,6526	9,6214	1145,4	37,005	209,20	423,08	1,0328	1,7991
7,0000	9,9498	9,9178	1141,2	38,182	210,76	423,33	1,0383	1,7972
8,0000	10,254	10,221	1137,0	39,392	212,31	423,58	1,0437	1,7952
9,0000	10,565	10,531	1132,8	40,634	213,88	423,82	1,0492	1,7933
10,000	10,883	10,848	1128,5	41,911	215,45	424,05	1,0546	1,7914
11,000	11,208	11,172	1124,1	43,223	217,03	424,27	1,0601	1,7895
12,000	11,541	11,504	1119,7	44,571	218,61	424,48	1,0656	1,7876
13,000	11,881	11,843	1115,3	45,957	220,20	424,69	1,0710	1,7857
14,000	12,228	12,189	1110,9	47,380	221,79	424,88	1,0765	1,7838

TEGA – Technische Gase und Gasetechnik GmbH  
 Werner-von-Siemens-Straße 18  
 97076 Würzburg | Germany  
 www.tega.de

Geschäftsführer: Dr. Jürgen Zöllner  
 Sitz: Würzburg - Registergericht: Würzburg, HRB 21  
 USt-IdNr.: DE 811145437

Deutsche Bank Würzburg

Telefon +49 931 2093-0  
 Telefax +49 931 2093-101  
 Email: info@tega.de

IBAN: DE707907001600202804 00  
 BIC: DEUTDEMM790

a DCC business

# R 410A



15,000	12,583	12,543	1106,4	48,844	223,40	425,07	1,0819	1,7819
16,000	12,945	12,904	1101,9	50,348	225,01	425,24	1,0874	1,7800
17,000	13,316	13,274	1097,3	51,894	226,62	425,41	1,0929	1,7781
18,000	13,694	13,651	1092,7	53,483	228,25	425,56	1,0983	1,7761
19,000	14,080	14,036	1088,0	55,117	229,88	425,70	1,1038	1,7742
20,000	14,475	14,429	1083,3	56,798	231,52	425,83	1,1093	1,7722
21,000	14,877	14,831	1078,5	58,525	233,16	425,95	1,1148	1,7703
22,000	15,288	15,241	1073,7	60,303	234,82	426,06	1,1202	1,7683
23,000	15,708	15,659	1068,8	62,131	236,48	426,16	1,1257	1,7663
24,000	16,136	16,086	1063,9	64,012	238,15	426,24	1,1312	1,7643
25,000	16,572	16,521	1058,9	65,948	239,84	426,31	1,1368	1,7623
26,000	17,018	16,966	1053,9	67,940	241,53	426,37	1,1423	1,7603
27,000	17,473	17,419	1048,8	69,991	243,22	426,41	1,1478	1,7582
28,000	17,936	17,882	1043,6	72,103	244,93	426,44	1,1533	1,7561
29,000	18,409	18,353	1038,4	74,279	246,65	426,46	1,1589	1,7541
30,000	18,891	18,834	1033,1	76,520	248,38	426,46	1,1644	1,7519
31,000	19,383	19,324	1027,7	78,830	250,12	426,44	1,1700	1,7498
32,000	19,884	19,824	1022,3	81,211	251,87	426,41	1,1756	1,7476
33,000	20,395	20,334	1016,7	83,666	253,63	426,35	1,1812	1,7454
34,000	20,916	20,854	1011,2	86,199	255,41	426,28	1,1868	1,7432
35,000	21,447	21,383	1005,5	88,813	257,19	426,20	1,1924	1,7410
36,000	21,988	21,923	999,71	91,511	258,99	426,09	1,1981	1,7387
37,000	22,539	22,473	993,86	94,298	260,80	425,96	1,2038	1,7364
38,000	23,101	23,033	987,91	97,179	262,63	425,81	1,2095	1,7340
39,000	23,673	23,604	981,87	100,16	264,47	425,64	1,2152	1,7316
40,000	24,256	24,186	975,72	103,24	266,32	425,45	1,2209	1,7291
41,000	24,850	24,779	969,46	106,42	268,19	425,23	1,2267	1,7266
42,000	25,455	25,382	963,08	109,73	270,08	424,98	1,2325	1,7241
43,000	26,071	25,997	956,58	113,15	271,99	424,71	1,2383	1,7215
44,000	26,699	26,624	949,95	116,70	273,91	424,41	1,2442	1,7188
45,000	27,338	27,261	943,19	120,38	275,85	424,08	1,2501	1,7161
46,000	27,988	27,911	936,28	124,21	277,81	423,72	1,2560	1,7133
47,000	28,651	28,572	929,21	128,19	279,79	423,33	1,2620	1,7104
48,000	29,325	29,246	921,98	132,33	281,80	422,90	1,2680	1,7075
49,000	30,012	29,932	914,57	136,64	283,83	422,43	1,2741	1,7044
50,000	30,711	30,630	906,97	141,15	285,88	421,92	1,2802	1,7013
51,000	31,422	31,341	899,16	145,85	287,97	421,37	1,2864	1,6980
52,000	32,147	32,065	891,12	150,77	290,08	420,77	1,2927	1,6947
53,000	32,884	32,802	882,84	155,93	292,23	420,12	1,2990	1,6912
54,000	33,635	33,552	874,29	161,35	294,41	419,41	1,3054	1,6876
55,000	34,398	34,316	865,44	167,04	296,63	418,65	1,3119	1,6839
56,000	35,176	35,094	856,26	173,05	298,89	417,82	1,3186	1,6799
57,000	35,967	35,886	846,72	179,40	301,20	416,92	1,3253	1,6758
58,000	36,773	36,692	836,76	186,14	303,57	415,94	1,3322	1,6715
59,000	37,592	37,513	826,34	193,30	305,99	414,87	1,3392	1,6670
60,000	38,426	38,348	815,37	200,95	308,48	413,70	1,3464	1,6622
61,000	39,276	39,199	803,78	209,17	311,06	412,41	1,3537	1,6571
62,000	40,140	40,066	791,46	218,03	313,72	410,99	1,3614	1,6517

TEGA – Technische Gase und Gasetechnik GmbH  
Werner-von-Siemens-Straße 18  
97076 Würzburg | Germany  
www.tega.de

Telefon +49 931 2093-0  
Telefax +49 931 2093-101  
Email: info@tega.de

Geschäftsführer: Dr. Jürgen Zöllner  
Sitz: Würzburg - Registergericht: Würzburg, HRB 21  
USt-IdNr.: DE 811145437

Deutsche Bank Würzburg

IBAN: DE707907001600202804 00  
BIC: DEUTDEMM790



# R 410A



<b>63,000</b>	41,019	40,949	778,25	227,66	316,50	409,42	1,3693	1,6458
<b>64,000</b>	41,915	41,848	763,97	238,21	319,41	407,67	1,3776	1,6395
<b>65,000</b>	42,826	42,763	748,34	249,89	322,49	405,69	1,3864	1,6325
<b>66,000</b>	43,754	43,697	730,95	263,01	325,78	403,43	1,3957	1,6247
<b>67,000</b>	44,699	44,648	711,18	278,04	329,38	400,80	1,4059	1,6159
<b>68,000</b>	45,661	45,618	687,93	295,74	333,40	397,65	1,4174	1,6057
<b>69,000</b>	46,641	46,607	659,03	317,59	338,15	393,73	1,4308	1,5933
<b>70,000</b>	47,639	47,617	618,88	347,08	344,34	388,39	1,4484	1,5768

TEGA – Technische Gase und Gasetechnik GmbH  
Werner-von-Siemens-Straße 18  
97076 Würzburg | Germany  
www.tega.de

Telefon +49 931 2093-0  
Telefax +49 931 2093-101  
Email: info@tega.de

Geschäftsführer: Dr. Jürgen Zöllner  
Sitz: Würzburg - Registergericht: Würzburg, HRB 21  
USt-IdNr.: DE 811145437

Deutsche Bank Würzburg

IBAN: DE707907001600202804 00  
BIC: DEUTDEMM790

a **DCC** business