

GAS CONVERSION FACTOR

Nr.:	Name:	Symbol	Density ρ_n [g / l] 0°C, 1 atm.	Heat capacity* c_p – cal[cal / g.K] 20°C, 1 atm.	Conversion factor 20°C, 1 atm.
1	Acetylene (Ethyne)	C_2H_2	1.172	0.438	0.61
2	Air	Air	1.293	0.241	1.00
3	Allene (Propadiene)	C_3H_4	1.832	0.392	0.43
4	Ammonia	NH_3	0.7693	0.524	0.77
5	Argon	Ar	1.784	0.125	1.40
6	Arsine	AsH_3	3.524	0.133	0.66
7	Boron trichloride	BCl_3	5.227	0.136	0.44
8	Boron trifluoride	BF_3	3.044	0.188	0.54
9	Bromine pentafluoride	BrF_5	7.803	0.156	0.26
10	Butadiene (1,3-)	C_4H_6	2.504	0.405	0.31
11	Butane	C_4H_{10}	2.705	0.457	0.25
12	Butene (1-)	C_4H_8	2.581	0.415	0.29
13	Butene (2-) (Cis)	C_4H_8	2.503	0.387	0.32
14	Butene (2-) (Trans)	C_4H_8	2.503	0.421	0.30
15	Carbonyl fluoride	COF_2	2.983	0.194	0.54
16	Carbonyl sulfide	COS	2.724	0.175	0.65
17	Carbon dioxide	CO_2	1.977	0.213	0.74
18	Carbon disulfide	CS_2	3.397	0.152	0.60
19	Carbon monoxide	CO	1.25	0.249	1.00
20	Chlorine	Cl_2	3.218	0.118	0.82
21	Chlorine trifluoride	ClF_3	4.125	0.188	0.40
22	Cyanogen	C_2N_2	2.376	0.275	0.48
23	Cyanogen chloride	$ClCN$	2.743	0.185	0.61
24	Cyclopropane	C_3H_6	1.919	0.374	0.43
25	Deuterium	D_2	0.1798	1.73	1.00
26	Diborane	B_2H_6	1.248	0.577	0.43
27	Dibromo difluoromethane	Br_2CF_2	9.361	0.17	0.20
28	Dichlorosilane	SiH_2Cl_2	4.506	0.17	0.41
29	Dimethylamine	C_2H_6NH	2.011	0.417	0.37
30	Dimethylpropane (2,2-)	C_5H_{12}	3.219	0.462	0.21
31	Dimethylether	C_2H_6O	2.105	0.378	0.39
32	Disilane	Si_2H_6	2.857	0.352	0.31
33	Ethane	C_2H_6	1.355	0.468	0.49
34	Ethylene (Ethene)	C_2H_4	1.261	0.414	0.60
35	Ethylene oxide	C_2H_4O	1.965	0.303	0.52
36	Ethylacetylene (1-Butyne)	C_4H_6	2.413	0.401	0.32
37	Ethylchloride	C_2H_5Cl	2.878	0.263	0.41
38	Fluorine	F_2	1.696	0.201	0.91
39	Freon-11	CCl_3F	6.129	0.145	0.35
40	Freon-113	$C_2Cl_3F_3$	8.36	0.174	0.21
41	Freon-1132A	$C_2H_2F_2$	2.889	0.244	0.44
42	Freon-114	$C_2Cl_2F_4$	7.626	0.177	0.23
43	Freon-115	C_2ClF_5	7.092	0.182	0.24
44	Freon-116	C_2F_6	6.251	0.2	0.25
45	Freon-12	CCl_2F_2	5.547	0.153	0.37
46	Freon-13	$CClF_3$	4.72	0.165	0.40
47	Freon-13B1	$CBrF_3$	6.768	0.12	0.38
48	Freon-14	CF_4	3.946	0.18	0.44
49	Freon-21	$CHCl_2F$	4.592	0.154	0.44
50	Freon-22	$CHClF_2$	3.936	0.168	0.47
51	Freon-23	CHF_3	3.156	0.191	0.52
52	Freon-C318	C_4F_8	9.372	0.222	0.15
53	Germane	GeH_4	3.45	0.16	0.56

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54	Helium	He	0.1785	1.24	1.41
55	Helium (3-)	3He	0.1346	1.606	1.44
56	Hydrogen	H ₂	0.08991	3.44	1.01
57	Hydrogen bromide	HBr	3.646	0.0869	0.98
58	Hydrogen chloride	HCl	1.639	0.192	0.99
59	Hydrogen cyanide	HCN	1.206	0.345	0.75
60	Hydrogen fluoride	HF	0.8926	0.362	0.96
61	Hydrogen iodide	HI	5.799	0.0553	0.97
62	Hydrogen selenide	H ₂ Se	3.663	0.109	0.78
63	Hydrogen sulfide	H ₂ S	1.536	0.246	0.82
64	Isobutane	C ₄ H ₁₀	2.693	0.457	0.25
65	Isobutylene (Isobutene)	C ₄ H ₈	2.60	0.429	0.28
66	Krypton	Kr	3.749	0.058	1.43
67	Methane	CH ₄	0.7175	0.568	0.76
68	Methylacetylene	C ₃ H ₄	1.83	0.399	0.43
69	Methylbromide	CH ₃ Br	4.35	0.118	0.61
70	Methylchloride	CH ₃ Cl	2.3	0.212	0.64
71	Methylfluoride	CH ₃ F	1.534	0.29	0.70
72	Methylmercaptan	CH ₃ SH	2.146	0.272	0.53
73	Molybdenum hexafluoride	MoF ₆	9.366	0.156	0.21
74	Mono-ethylamine	C ₂ H ₅ NH ₂	2.011	0.436	0.36
75	Monomethylamine	CH ₃ NH ₂	1.419	0.424	0.52
76	Neon	Ne	0.9002	0.246	1.41
77	Nitric oxide	NO	1.34	0.239	0.97
78	Nitrogen	N ₂	1.250	0.249	1.00
79	Nitrogen dioxide	NO ₂	2.053	0.204	0.74
80	Nitrogen trifluoride	NF ₃	3.182	0.194	0.50
81	Nitrosyl chloride	NOCl	2.984	0.17	0.61
82	Nitrous oxide	N ₂ O	1.978	0.221	0.71
83	Oxygen	O ₂	1.429	0.222	0.98
84	Oxygen difluoride	OF ₂	2.417	0.201	0.64
85	Ozone	O ₃	2.154	0.207	0.70
86	Pentane	C ₅ H ₁₂	3.219	0.455	0.21
87	Perchlorylfluoride	ClO ₃ F	4.653	0.165	0.41
88	Perfluoropropane	C ₃ F ₈	8.662	0.22	0.16
89	Performa- ethylene	C ₂ F ₄	4.523	0.206	0.33
90	Phosgene	COCl ₂	4.413	0.149	0.47
91	Phosphine	PH ₃	1.53	0.277	0.73
92	Phosphorous pentafluoride	PF ₅	5.694	0.183	0.30
93	Propane	C ₃ H ₈	2.012	0.456	0.34
94	Propylene (Propene)	C ₃ H ₆	1.915	0.408	0.40
95	Silane	SiH ₄	1.443	0.349	0.62
96	Silicon tetrafluoride	SiF ₄	4.683	0.18	0.37
97	Sulfurylfluoride	SO ₂ F ₂	4.631	0.175	0.38
98	Sulfur dioxide	SO ₂	2.922	0.157	0.68
99	Sulfur hexafluoride	SF ₆	6.626	0.175	0.27
100	Sulfur tetrafluoride	SF ₄	4.821	0.192	0.34
101	Trichlorosilane	SiHCl ₃	6.044	0.157	0.33
102	Trimethylamine	C ₃ H ₉ N	2.637	0.424	0.28
103	Tungsten hexafluoride	WF ₆	13.29	0.092	0.25
104	Vinylbromide	C ₂ H ₃ Br	4.772	0.141	0.46
105	Vinylchloride	C ₂ H ₃ Cl	2.865	0.229	0.47
106	Vinylfluoride	C ₂ H ₃ F	2.08	0.305	0.49
107	Xenon	Xe	5.899	0.0382	1.38