in-system ©

Gaskorrektionsfaktorer til termiske massestrøms regulatorer
Gasmixer

Den følgende tabel viser teoretiske gaskorrektionsfaktorer for forskellige gasser med hensyn til nitrogen for termiske massestrøms regulatorer.

Gas	Symbol	Specific Heat, CP cal/g°C	Density g/l @ 0°C	Conversion Factor
Air	**- - -**	**0.240**	**1.293**	**1.00**
Ammonia	NH_3	0.492	0.760	0.73
Argon	**Ar**	**0.1244**	**1.782**	**1.39**
Arsine	AsH_3	0.1167	3.478	0.67
Boron Trichloride	BCl_3	0.1279	5.227	0.41
Carbon Dioxide	**CO_2**	**0.2016**	**1.964**	**0.70**
Carbon Monoxide	**CO**	**0.2488**	**1.250**	**1.00**
Carbon Tetraflouride (Freon - 14)	CF_4	0.1654	3.926	0.42
Chlorine	Cl_2	0.1144	3.163	0.86
Chlorodifluoromethane (Freon - 22)	$CHClF_2$	0.1544	3.858	0.46
Chloropentafluoroethane (Freon - 115)	C_2ClF_5	0.164	6.892	0.24
Chlorotrifluoromethane (Freon - 13)	$CClF_3$	0.153	4.660	0.38
Cyanogen	C_2N_2	0.2613	2.322	0.61
Deuterium	D_2	1.722	0.1799	1.00
Diborane	B_2H_6	0.508	1.235	0.44
Dibromodifluoromethane	CBr_2F_2	0.15	9.362	0.19
Dichlorodifluoromethane (Freon - 12)	CCl_2F_2	0.1432	5.395	0.35
Dichlorofluoromethane (Freon - 21)	$CHCl_2F$	0.140	4.592	0.42
Dichloromethysilane	$(CH_3)_2SiCl_2$	0.1882	5.758	0.25
Dichlorosilane	SiH_2Cl_2	0.150	4.506	0.40
1,2-Dichlorotetrafluoroethane (Freon - 114)	$C_2Cl_2F_4$	0.160	7.626	0.22
1,1-Difluoroethylene (Freon - 1132A)	$C_2H_2F_2$	0.224	2.857	0.43
2,2-Dimethylpropane	C_5H_{12}	0.3914	3.219	0.22
Ethane	C_2H_6	0.4097	1.342	0.50
Fluorine	F_2	0.1873	1.695	0.98
Fluoroform (Freon - 23)	CHF_3	0.176	3.127	0.50
Freon - 11	CCl_3F	0.1357	6.129	0.33
Freon - 12	CCl_2F_2	0.1432	5.395	0.35
Freon - 13	$CClF_3$	0.153	4.660	0.38
Freon - 13 B1	$CBrF_3$	0.1113	6.644	0.37
Freon - 14	CF_4	0.1654	3.926	0.42
Freon - 21	$CHCl_2F$	0.140	4.592	0.42
Freon - 22	$CHClF_2$	0.1544	3.858	0.46
Freon - 23	CHF_3	0.176	3.127	0.50
Freon - 113	$C_2Cl_2F_3$	0.161	8.360	0.20
Freon - 114	$C_2Cl_2F_4$	0.160	7.626	0.22

Freon - 115	C2ClF5	0.164	6.892	0.24
Freon - 116	C2F6	0.1843	6.157	0.24
Freon - C318	C4F8	0.1866	8.93	0.16
Freon - 1132A	C2H2F2	0.224	2.857	0.43
Helium	**He**	**1.241**	**0.1786**	**1.45**
Hexafluoroethane (Freon - 116)	C2F6	0.1843	6.157	0.24
Hydrogen	**H2**	**3.419**	**0.0899**	**1.01**
Hydrogen Bromide	HBr	0.0861	3.610	1.00
Hydrogen Chloride	HCl	0.1912	1.627	1.00
Hydrogen Fluoride	HF	0.3479	0.893	1.00
Isobutylene	C4H8	0.3701	2.503	0.29
Krypton	**Kr**	**0.0593**	**3.739**	**1.54**
Methane	**CH4**	**0.5328**	**0.715**	**0.72**
Methyl Fluoride	CH3F	0.3221	1.518	0.56
Molybdenum Hexafluoride	MoF6	0.1373	9.366	0.21
Neon	**Ne**	**0.246**	**0.900**	**1.46**
Nitric Oxide	NO	0.2328	1.339	0.99
Nitrogen	**N2**	**0.2485**	**1.250**	**1.00**
Nitrous Oxide	N2O	0.2088	1.964	0.71
Octafluorocyclobutane (Freon - C318)	C4F8	0.1866	8.93	0.16
Oxygen	**O2**	**0.2193**	**1.427**	**0.99**
Pentane	C5H12	0.398	3.219	0.21
Perfluoropropane	C3F8	0.194	8.388	0.17
Phosgene	COCl2	0.1394	4.418	0.44
Phosphine	PH3	0.2374	1.517	0.76
Propane	**C3H8**	**0.3885**	**1.967**	**0.36**
Propylene	C3H6	0.3541	1.877	0.41
Silane	**SiH4**	**0.3189**	**1.433**	**0.60**
Silicon Tetrachloride	SiCl4	0.1270	7.580	0.28
Silicon Tetrafluoride	SiF4	0.1691	4.643	0.35
Sulfur Dioxide	SO2	0.1488	2.858	0.69
Sulfur Hexafluoride	SF6	0.1592	6.516	0.26
Trichlorofluoromethane (Freon - 11)	CCl3F	0.1357	6.129	0.33
Trichlorosilane	SiHCl3	0.1380	6.043	0.33
Tungsten Hexafluoride	WF6	0.0810	13.28	0.25
Xenon	**Xe**	**0.0378**	**5.858**	**1.32**

Bemærk: Standardtryk er defineret som 760 mmHg (14,7 psia). Standard temperatur er defineret som 0°C.