PT 108
Gas Data Table
March 3, 2026

NOTE: Conversion factors are based upon the molecular weight of the gases. The factors are multipliers used to convert flow of one gas to an equivalent flow of another. The chart has factors to convert from N2 to a listed gas and from a listed gas to N2. A common use for a multiplier is to convert N2 flow in a published regulator flow curve to a flow of a different gas. The conversion factors consider gas density and not other properties, such as cooling effect, which can impact the regulators flow performance and capabilities.

Gas Name	Gas Formula	Cylinder Pressure			Gas State	Moecular Weight kg/mol	Conversion factor specific gas to N2	Conversion factor N2 to specific gas
		Psig	Bar	Mpa				
Acetylene	C_2H_2	250	17.2	1.7	Compressed Gas	0.02604	0.96	1.04
Air		150-2400	10.3-165.5	1-16.5	Compressed Gas	0.02896	1.02	0.98
Ammonia	NH_3	114	7.9	0.8	Liquified Gas	0.01703	0.78	1.28
Argon	Ar	150-2600	10.3-179.3	1-17.9	Compressed Gas	0.03995	1.19	0.84
Arsine	AsH_3	150-205	10.3-14.1	1-1.4	Liquified Gas	0.07795	1.67	0.60
Boron Trichloride	BCl_3	4.4	0.3	0.03	Liquified Gas	0.11717	2.05	0.49
Boron Trifluoride	BF_3	150-1600	10.3-110.3	1-11.0	Compressed Gas	0.0678	1.56	0.64
Boron 11 Trifluoride	$11BF_3$	150-675	10.3-46.5	1-4.6	Compressed Gas	0.0695	1.58	0.63
Butadiene	C_4H_6	21	1.4	0.1	Liquified Gas	0.054	1.39	0.72
Butane	C_4H_{10}	16	1.1	0.1	Liquified Gas	0.058	1.44	0.69
Butene-1	C_4H_8	39	2.7	0.3	Liquified Gas	0.0561	1.42	0.71
Carbon Dioxide	CO_2	830	57.2	5.7	Liquified Gas	0.04401	1.25	0.80
Carbon Monoxide	CO	150-2000	10.3-137.9	1-13.8	Compressed Gas	0.02801	1.00	1.00
Carbonyl Fluoride	COF_2	800	55.2	5.5	Liquified Gas	0.066	1.53	0.65
Chlorine	Cl_2	85	5.9	0.6	Liquified Gas	0.0709	1.59	0.63
Chlorine Trifluoride	ClF_3	7	0.5	0.05	Liquified Gas	0.09245	1.82	0.55
Deuterium	D2	600-2500	41-172	4.1-17.2	Compressed Gas	0.00402	0.38	2.64
Dichlorosilane	SiH_2Cl_2	9.1	0.6	0.06	Liquified Gas	0.10101	1.90	0.53
Difluoroethylene	$C_2H_2F_2$	517	35.7	3.6	Liquified Gas	0.064	1.51	0.66
Dimethylsilane	C_2SiH_8	36	2.5	0.2	Liquified Gas	0.06017	1.47	0.68
Disilane	Si_2H_6	33	2.3	0.2	Liquified Gas	0.0622	1.49	0.67
Ethylene	C_2H_4	692	47.7	4.8	Liquified Gas	0.02805	1.00	1.00
Fluorine	F_2	150-300	10.3-20.6	1-2.1	Compressed Gas	0.03799	1.16	0.86
Germane	GeH_4	53	3.7	0.4	Compressed Gas	0.07666	1.65	0.60
Halocarbon 114	C_2ClF_4	13	0.9	0.1	Liquified Gas	0.1778	2.52	0.40
Halocarbon 115	C_2ClF_3	101	7.0	0.7	Liquified Gas	0.15447	2.35	0.43
Halocarbon 116	C_2F_6	430	29.7	3.0	Liquified Gas	0.13801	2.22	0.45
Halocarbon 125	C_2HF_3	175	12.1	1.2	Liquified Gas	0.12002	2.07	0.48
Halocarbon 134A	$C_2H_2F_4$	81	5.6	0.6	Liquified Gas	0.102	1.91	0.52
Halocarbon 12	CCl_2F_2	70	4.8	0.5	Liquified Gas	0.12089	2.08	0.48
Halocarbon 12B2	CBr_2F_2	2	0.1	0.01	Liquified Gas	0.2096	2.74	0.37
Halocarbon 13	$CClF_3$	460	31.7	3.2	Liquified Gas	0.10447	1.93	0.52
Halocarbon 13B1	$CBrF_3$	200	138	1.4	Liquified Gas	0.14893	2.31	0.43
Halocarbon 14	CF_4	150-2000	10.3-137.9	1-13.8	Compressed Gas	0.088	1.77	0.56
Halocarbon 21	$CHCl_2F$	8.4	0.6	0.06	Liquified Gas	0.10292	1.92	0.52
Halocarbon 23	CHF_3	635	43.8	4.4	Liquified Gas	0.070014	1.58	0.63
Halocarbon 32	CH_2F_2	232	16.0	1.6	Liquified Gas	0.05202	1.36	0.73

Gas Name	Gas Formula	Cylinder Pressure			Gas State	Molecular Weight kg/mol	Conversion factor specific gas to N2	Conversion factor N2 to specific gas
		Psig	Bar	MPa				
Halocarbon C318	C_4F_8	25	1.7	0.2	Liquified Gas	0.20004	2.67	0.37
Halocarbon R218	C_3F_8	100	6.9	0.7	Liquified Gas	0.18803	2.59	0.39
Helium	He	150-2600	10.3-179.3	1-17.9	Compressed Gas	0.004	0.38	2.65
Hexafluoropropane	C3H2F6	39	2.7	0.3	Liquified Gas	0.152	2.33	0.43
Hexafluoropropylene	C3F6	85	5.9	0.6	Liquified Gas	0.15	2.31	0.43
Hydrogen	H_2	150-2600	10.3-179.3	1-17.9	Compressed Gas	0.00202	0.27	3.72
Hydrogen Bromide	HBr	320	22.1	2.2	Liquified Gas	0.08091	1.70	0.59
Hydrogen Chloride	HCl	613	42.3	4.2	Liquified Gas	0.03646	1.14	0.88
Hydrogen Fluoride	HF	0.6	0.04	0.004	Liquified Gas	0.02001	0.85	1.18
Hydrogen Selenide	H_2Se	125	8.6	0.9	Liquified Gas	0.08097	1.70	0.59
Hydrogen Sulfide	H_2S	253	17.4	1.7	Liquified Gas	0.03407	1.10	0.91
Krypton	Kr	150-1820	10.3-125.5	1-12.5	Compressed Gas	0.0888	1.78	0.56
Methane	CH_4	150-2400	10.3-165.5	16.5	Compressed Gas	0.01604	0.76	1.32
Methanol	CH_3OH	16	1.1	0.1	Liquified Gas	0.03204	1.07	0.94
Methyle Bromide	CH3Br	13	0.9	0.1	Liquified Gas	0.094	1.83	0.55
Methyl Chloride	CH_3Cl	59	4.1	0.4	Liquified Gas	0.05048	1.34	0.74
Methysilane	CH_3SiH_3	192	13.2	13	Liquified Gas	0.04614	1.28	0.78
Methyl Fluoride	CH_3F	435	30.0	3.0	Liquified Gas	0.03403	1.10	0.91
Neon	Ne	150-2400	10.3-165.5	1-16.5	Compressed Gas	0.02018	0.85	1.18
Nitrogen	N_2	150-2600	10.3-179.3	1-17.9	Compressed Gas	0.028013	1.00	1.00
Nitrogen Dioxide	NO_2	14.2	1	0.1	Liquified Gas	.046	1.28	0.78
Nitrogen Trifuoride	NF_3	150-1450	10.3-100	1-10.0	Compressed Gas	0.071	1.59	0.63
Nitric Oxide	NO	745	51.4	5.1	Compressed Gas	0.03	1.03	0.97
Nitrous Oxide	N_2O	750	51.7	5.2	Liquified Gas	0.04401	1.25	0.80
Octofluorocyclobutane	C_4F_8	25	1.7	0.2	Liquified Gas	0.20	2.67	0.37
Octafluorocycle-pentene	C_3F_8	614 mmHg/Torr 20.5 in. Hg Abs.	614 mmHg/Torr 20.5 in. Hg Abs.	614 mmHg/Torr 20.5 in. Hg Abs.	Liquified Gas	0.21204	2.75	0.36
Oxygen	O_2	150-2600	10.3-179.3	1-17.9	Compressed Gas	0.03199	1.07	0.94
Perfluoropropane	C_3F_8	100	6.9	0.7	Liquified Gas	0.18802	2.59	0.39
Perfluorobuta-diene	C_4F_6	15	1.0	0.1	Liquified Gas	0.16203	2.41	0.42
Phosphine	PH_3	590	40.7	4.1	Liquified Gas	0.03399	1.10	0.91
Phosphorous Pentafluoride	PF_5	2000	137.9	13.8	Liquified Gas	0.12596	2.12	0.47
Propane	C_3H_3	92	6.3	0.6	Liquified Gas	0.04409	1.25	0.80
Propene	C_3H_6	149	10.3	1.0	Liquified Gas	0.04208	1.23	0.82
Silane	SiH_4	150-1400	10.3-96.5	1-9.6	Compressed Gas	0.03211	1.07	0.93
Silicone Tetrachloride	$SiCl_4$	194 mmHg/Torr 6.5 in. Hg Abs.	194 mmHg/Torr 6.5 in. Hg Abs.	194 mmHg/Torr 6.5 in. Hg Abs.	Liquified Gas	0.16489	2.43	0.41
Silicon Tetrafluoride	SiF_4	150-1000	10.3-69	1-6.9	Compressed Gas	0.10408	1.93	0.52
Sulfur Dioxide	SO_2	30	2.1	0.2	Liquified Gas	0.06406	1.51	0.66
Sulfur Hexafluoride	SF_6	320	22.1	2.2	Liquified Gas	0.146054	2.28	0.44
Sulfur Tetrafluoride	SF_4	140	9.7	1.0	Liquified Gas	0.10806	1.96	0.51
Trichlorosilane	$HSiCl_3$	20	1.4	0.1	Liquified Gas	0.1355	2.20	0.45
Trimethylsilane	$(CH_3)_3SiH$	10	0.7	0.1	Liquified Gas	0.07419	1.63	0.61
Tungsten Hexafluoride	WF_6	2	0.1	0.01	Liquified Gas	0.2978	3.26	0.31
Xenon	Xe	150-970	10.3-66.9	1-6.7	Compressed Gas	0.1313	2.16	0.46