Physical Properties of Gases

Gas	Symbol	Molecular Weight	Density (Kg/m³)	Specific Gravity
Acetylene	C2H2	26.0	1.11	0.91
Air		29.0	1.29	1.0
Allene	C3H4	40.1	1.81	1.4
Ammonia	NH3	17.0	0.73	0.60
Argon	Ar	39.9	1.69	1.38
Arsine	AsH3	78.0	*	*
Boron Trichloride	BCl3	117.2	4.98	4.06
Boron Trifluoride	BF3	67.8	2.90	2.37
N – Butane	C4H10	58.1	2.59	2.11
Carbon Dioxide	CO2	44.0	1.87	1.53
Carbon Monoxide	CO	28.0	1.18	0.97
Chlorine	Cl2	70.9	3.05	2.49
Deuterium	D2 or 2H2	4.03	0.17	0.14
Dichlorosilane	SlH2Cl2	101.0	*	*
Dimethylamine	(CH3)2NH	45.1	1.91	1.56
Dimethylether	(CH3)2O	46.1	2.00	1.63
Ethane	C2H6	30.1	1.29	1.05
Ethyl Acetylene	C4H6	54.1	*	*
Ethyl Chloride	C2H5Cl	64.5	2.73	2.23
Ethylene	C2H4	28.1	1.20	0.97
Ethylene Oxide	C2H4O	44.1	1.86	1.52
Fluorine	F2	38.0	1.61	1.31
Germane	GeH4	76.6	*	*
Helium	He	4.0	0.17	0.14
Hydrogen	H2	2.0	0.09	0.07

Gas	Symbol	Molecular Weight	Density (Kg/m³)	Specific Gravity
Hydrogen Bromide	HBr	90.9	3.45	2.82
Hydrogen Chloride	HCl	36.5	1.56	1.27
Hydrogen Fluoride	HF	20.0	0.87	0.71
Hydrogen Sulphide	H2S	34.1	1.46	1.19
Krypton	Kr	83.8	3.55	2.90
Methane	CH4	16.0	0.68	0.55
Natural Gas	*	19.5	0.8034	0.67
Neon	Ne	20.2	0.85	0.70
Nitric Oxide	N2O	30.0	1.27	1.04
Nitrogen	N2	28.0	1.18	0.97
Nitrogen Dioxide	NO2	46.0	3.47	2.83
Nitrogen Trifluoride	NF3	71.0	3.00	2.44
Nitrous Oxide	N2O	44.0	1.88	1.53
Oxygen	O2	32.0	1.35	1.11
Phosgene	COCl2	98.9	4.30	3.50
Propane	C3H8	44.1	1.91	1.55
Propylene	C3H6	43.1	1.82	1.48
Silane	SlH4	32.1	1.36	1.11
Silicon Tetrafluoride	SlF4	104.1	4.45	3.63
Sulphur Dioxide	SO2	64.1	2.77	2.26
Trimethylamine	(CH3)3N	59.1	2.45	1.995
Xenon	Xe	131.3	5.59	4.56