

# Gas Correction Factors

Gas correction factor tables are only reproduced for the convenience of the user and do not imply that use with other gases will be safe with BA ion gauges.

Divide sensitivity by 100 for Pa<sup>-1</sup>; multiply by 1.33 for Torr<sup>-1</sup>.

Gas	Symbol	Gas Correction Factor	NGC Sensitivity S, mBar-1
Acetone	(CH <sub>3</sub> ) <sub>2</sub> CO	3.6	68
Air	---	1.0	19
Ammonia	NH <sub>3</sub>	1.3	25
Argon	Ar	1.3	24
Benzene	C <sub>6</sub> H <sub>6</sub>	5.9	112
Bromine	Br	3.8	72
Bromomethane	CH <sub>3</sub> Br	3.7	70
Cadmium	Cd	2.3	44
Carbon Dioxide	CO <sub>2</sub>	1.4	27
Carbon Disulfide	CS <sub>2</sub>	5.0	95
Carbon Monoxide	CO	1.05	20
Carbon Tetrachloride	CCl <sub>4</sub>	6.0	114
Cesium	Cs	4.3	82
Chlorine	Cl <sub>2</sub>	0.68	13
Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl	7.0	133
Chloroethane	C <sub>2</sub> H <sub>5</sub> Cl	4.0	76
Chloroform	CHCl <sub>3</sub>	4.7	89
Chloromethane	CH <sub>3</sub> Cl	2.6	49
Cyanogen	(CN) <sub>2</sub>	2.8	53
Cyclohexylene	C <sub>6</sub> H <sub>12</sub>	7.9	150
Deuterium	D <sub>2</sub>	0.35	7
Dichlorodifluoromethane	CCl <sub>2</sub> F <sub>2</sub>	2.7	51

Dichloromethane	$\text{CH}_2\text{Cl}_2$	3.7	70
Ethane	$\text{C}_2\text{H}_6$	2.6	49
Ethanol	$\text{C}_2\text{H}_5\text{OH}$	3.6	68
Ethyl Acetate	$\text{CH}_3\text{COOC}_2\text{H}_5$	5.0	95
Ethyl ether	$(\text{C}_2\text{H}_5)_2\text{O}$	5.1	97
Ethylene	$\text{C}_2\text{H}_4$	2.3	44
Ethylene oxide	$(\text{CH}_2)_2\text{O}$	2.5	47
Helium	He	0.18	3
Heptane	$\text{C}_7\text{H}_{16}$	8.6	163
Hexane	$\text{C}_6\text{H}_{14}$	6.6	125
Hydrogen	$\text{H}_2$	0.46	9
Hydrogen Bromide	HBr	2.0	38
Hydrogen Chloride	HCl	1.5	28
Hydrogen Cyanide	HCN	1.5	28
Hydrogen Fluoride	HF	1.4	27
Hydrogen Iodide	HI	3.1	59
Hydrogen Sulfide	$\text{H}_2\text{S}$	2.2	42
Iodine	$\text{I}_2$	5.4	103
Iodomethane	$\text{CH}_3\text{I}$	4.2	80
Isoamyl Alcohol	$\text{C}_5\text{H}_{11}\text{OH}$	2.9	55
Isobutylene	$\text{C}_4\text{H}_8$	3.6	68
Krypton	Kr	1.9	36
Lithium	Li	1.9	36
Mercury	Hg	3.6	68
Methane	$\text{CH}_4$	1.4	27
Methanol	$\text{CH}_3\text{OH}$	1.8	34
Methyl Acetate	$\text{CH}_3\text{COOCH}_3$	4.0	76
Methyl ether	$(\text{CH}_3)_2\text{O}$	3.0	57
Naphthalene	$\text{C}_{10}\text{H}_8$	9.7	184

Neon	Ne	0.3	6
Nitrobenzene	$C_6H_5NO_2$	7.2	137
Nitric Oxide	NO	1.3	25
Nitrogen	$N_2$	1.0	19
Nitrogen Oxide	$NO_2$	1.2	23
Nitrous Oxide	$N_2O$	1.5	28
Oxygen	$O_2$	1.0	19
Phosphine	$PH_3$	2.6	49
Potassium	K	3.6	68
Propane	$C_3H_8$	4.2	80
Rubidium	Rb	4.3	82
Sodium	Na	3.0	57
Sulphur Dioxide	$SO_2$	2.1	40
Sulphur Hexafluoride	$SF_6$	2.3	44
Toluene	$C_6H_5CH_3$	6.8	129
Water	$H_2O$	1.1	21
Xenon	Xe	2.9	55