Gas Correction Factors

Gas correction factor tables are 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^{-1}; multiply by 1.33 for $Torr^{-1}$.

Gas	Symbol	Gas Correction Factor	NGC Sensitivity S, mBar-1
Acetone	$(CH_3)_2CO$	3.6	68
Air	---	1.0	19
Ammonia	NH_3	1.3	25
Argon	Ar	1.3	24
Benzene	C_6H_6	5.9	112
Bromine	Br	3.8	72
Bromomethane	CH_3Br	3.7	70
Cadmium	Cd	2.3	44
Carbon Dioxide	CO_2	1.4	27
Carbon Disulfide	CS_2	5.0	95
Carbon Monoxide	CO	1.05	20
Carbon Tetrachloride	CCl_4	6.0	114
Cesium	Cs	4.3	82
Chlorine	Cl_2	0.68	13
Chlorobenzene	C_6H_5Cl	7.0	133
Chloroethane	C_2H_5Cl	4.0	76
Chloroform	$CHCl_3$	4.7	89
Chloromethane	CH_3Cl	2.6	49
Cyanogen	$(CN)_2$	2.8	53
Cyclohexylene	C_6H_{12}	7.9	150
Deuterium	D_2	0.35	7
Dichlorodiflоromethane	CCl_2F_2	2.7	51

Dichloromethane	CH_2Cl_2	3.7	70
Ethane	C_2H_6	2.6	49
Ethanol	C_2H_5OH	3.6	68
Ethyl Acetate	$CH_3COOC_2H_5$	5.0	95
Ethyl ether	$(C_2H_5)_2O$	5.1	97
Ethylene	C_2H_4	2.3	44
Ethylene oxide	$(CH_2)_2O$	2.5	47
Helium	He	0.18	3
Heptane	C_7H_{16}	8.6	163
Hexane	C_6H_{14}	6.6	125
Hydrogen	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	H_2S	2.2	42
Iodine	I_2	5.4	103
Iodomethane	CH_3I	4.2	80
Isoamyl Alcohol	$C_5H_{11}OH$	2.9	55
Isobutylene	C_4H_8	3.6	68
Krypton	Kr	1.9	36
Lithium	Li	1.9	36
Mercury	Hg	3.6	68
Methane	CH_4	1.4	27
Methanol	CH_3OH	1.8	34
Methtyl Acetate	CH_3COOCH_3	4.0	76
Mythyl ether	$(CH_3)_2O$	3.0	57
Naphthalene	$C_{10}H_8$	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