



Gas Conversion Factors for Mass Flow Controllers

Gas	Symbol	Conversion Factor
Air	Air	1.002
Ammonia	NH <sub>3</sub>	0.729
Argon	Ar	1.398
Arsine	AsH <sub>3</sub>	0.673
Boron Trichloride	BCl <sub>3</sub>	0.426
Bromine	Br <sub>2</sub>	0.816
Bromotrifluoromethane	CBrF <sub>3</sub>	0.388
Carbon Dioxide	CO <sub>2</sub>	0.763
Carbon Tetrachloride	CCl <sub>4</sub>	0.320
Carbon Tetrafluoride	CF <sub>4</sub>	0.445
Chlorine	Cl <sub>2</sub>	0.873
Chlorodifluoromethane	CHClF <sub>2</sub>	0.473
Chloroform	CHCl <sub>3</sub>	0.410
Chloropentafluoroethane	C <sub>2</sub> ClF <sub>5</sub>	0.251
Chlorotrifluoromethane	CClF <sub>3</sub>	0.404
Diborane	B <sub>2</sub> H <sub>6</sub>	0.471
Dibromotetrafluoroethane	C <sub>2</sub> Br <sub>2</sub> F <sub>4</sub>	0.147
Dichlorofluoromethane	CHCl <sub>2</sub> F	0.440
Dichlorosilane	SiH <sub>2</sub> Cl <sub>2</sub>	0.435
Dichlorotetrafluoroethane	C <sub>2</sub> Cl <sub>2</sub> F <sub>4</sub>	0.219
Difluorochloroethane	C <sub>2</sub> H <sub>3</sub> ClF <sub>2</sub>	0.312
Difluoroethane	C <sub>2</sub> H <sub>4</sub> F <sub>2</sub>	0.380
Difluoroethylene	C <sub>2</sub> H <sub>2</sub> F <sub>2</sub>	0.443
Disilane	Si <sub>2</sub> H <sub>6</sub>	0.329
Ethane	C <sub>2</sub> H <sub>6</sub>	0.499
Ethylene	C <sub>2</sub> H <sub>4</sub>	0.625
Fluorine	F <sub>2</sub>	0.942
Fluoroform	CHF <sub>3</sub>	0.528
Germanium Tetrachloride	GeCl <sub>4</sub>	0.277
Helium	He	1.445
Hexafluoroethane	C <sub>2</sub> F <sub>6</sub>	0.255
Hydrogen	H <sub>2</sub>	1.024
Hydrogen Bromide	HBr	1.000
Hydrogen Chloride	HCl	1.000
Hydrogen Fluoride	HF	1.000
Hydrogen Sulfide	H <sub>2</sub> S	0.806
Methane	CH <sub>4</sub>	0.730
Nitric Oxide	NO	0.972
Nitrogen	N <sub>2</sub>	1.000
Nitrous Oxide	N <sub>2</sub> O	0.734
Oxygen	O <sub>2</sub>	0.994
Phosphine	PH <sub>3</sub>	0.706



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Phosphorous Oxychloride	$\text{POCl}_3$	0.313
Silane	$\text{SiH}_4$	0.625
Silicon Tetrachloride	$\text{SiCl}_4$	0.294
Sulfur Hexachloride	$\text{SF}_6$	0.285
Trichloroethane	$\text{C}_2\text{H}_3\text{Cl}_3$	0.278
Trichlorofluoromethane	$\text{CCl}_3\text{F}$	0.344
Trichlorotrifluoroethane	$\text{C}_2\text{Cl}_3\text{F}_3$	0.211
Trimethylborate	$\text{C}_3\text{H}_9\text{BO}_3$	0.178
Trimethylphosphorous	$\text{C}_3\text{H}_9\text{P}$	0.257
Tungsten Hexafluoride	$\text{WF}_6$	0.226