

Gas conversion factors

Name	Symbol	Density(g/l) 0°C, 1 bar a	Conversion factor	Comments
Air	Air	1.293	0.998	
Oxygen	O2	1.429	0.992	absolutely free from oil & grease
Nitrogen	N2	1.250	1	
Helium	He	0.1785	ca. 9	
Argon	Ar	1.784	1.27	
Carbondioxide*	CO2	1.977	0.70	
Hydrogen	H2	0.08991	ca. 10	
Methane	CH4	0.7175		
Propane	C3H8	2.012	0.32	
Nitrousoxide	N2O	1.978		
Sulfur Hexafluoride*	SF6	6.626		
Propylene	C3H6	1.915		
Carbonmonoxide	CO	1.25		
Butane	C4H10	2.705		

*Valve with EPDM seals

The conversion factors given are approximative values and should only be used to determine a new range.

Example

New range: 3 l/min CO2
 Conversion factor: 0.70
 Equivalent range with air: $3 / 0.7 = 4,28$ l/min