Table I. Concentration conversion factors for vapours and gases

	mm Hg	**ppbv**	**mol/l**	**mg/l**	**mg/m^3**	**microg/m^3**
mm Hg	1	$\frac{10^9}{760}$	$\frac{1}{760.RT}$	$\frac{M.10^3}{760.RT}$	$\frac{M.10^6}{760.RT}$	$\frac{M.10^9}{760.RT}$
ppbv	760.10^{-9}	1	$\frac{10^{-9}}{RT}$	$\frac{M.10^{-6}}{RT}$	$\frac{M.10^{-3}}{RT}$	$\frac{M}{RT}$
mol/l	760.RT	10^9.RT	1	$M.10^3$	$M.10^6$	$M.10^9$
mg/l	$\frac{760.RT}{M.10^3}$	$\frac{10^6.RT}{M}$	$\frac{10^{-3}}{M}$	1	10^3	10^6
mg/m^3	$\frac{760.RT}{M.10^6}$	$\frac{10^3.RT}{M}$	$\frac{10^{-6}}{M}$	10^{-3}	1	10^3
microg/m^3	$\frac{760.RT}{M.10^9}$	$\frac{RT}{M}$	$\frac{10^{-9}}{M}$	10^{-6}	10^{-3}	1

R (gasconstant) = 0.082 (/) (atm) / (mol) (°K)
T = absolute temperature of the vapour in °K
M = molecular weight
ppbv = parts per billion by volume