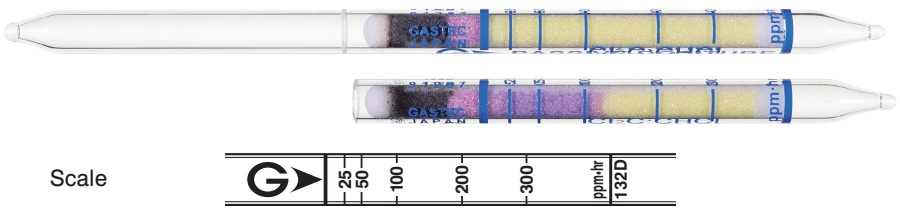
Dosi-tube

Trichloroethylene $Cl_2C{:}CHCl$ No.132D



Performance

Measuring range	3 to 300 ppm
Sampling time	1 to 8 hours

Colour change : Yellow → Purple
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction used
Relative humidity 20 to 80 % correction not used
Relative standard deviation : 10 % (for 25 to 300 ppm·hr)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 15 months (in the refrigerator)

Reaction principle

$Cl_2C{:}CHCl + PbO_2 + H_2SO_4 \rightarrow HCl$
HCl + Base → Chloride

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen chloride		+	Purple
Chlorine		+	
1,2-Dichloroethylene		+	
Trichloroethylene		+	
Toluene, Xylene		No	No

Other substances measurable with this Dosi-tube

Substance	Correction	Sampling time	Measuring range
Chlorine	Factor : 0.8	1 to 8 hours	2.4 to 240 ppm
1,2-Dichloroethylene	Factor : 2.0		6 to 600 ppm
Hydrogen chloride	Factor : 0.6		1.8 to 180 ppm
Tetrachloroethylene	Factor : 0.5		1.5 to 150 ppm

Calibration gas generation

Diffusion tube method