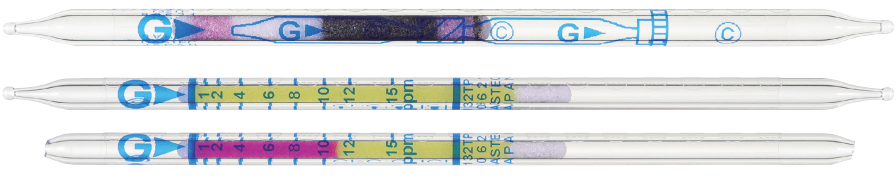
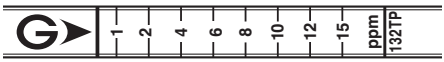
Detector tube

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



Scale



Performance

When used, these tubes are to be connected. See page 2-3.

Measuring range	1 to 15 ppm	15 to 33 ppm
Sampling rate	100 mL/min（1000 mL）	50 mL/min（500 mL）
Correction factor	1	2.2
Sampling time	10 min	10 min

Detecting limit : 0.2 ppm（1000 mL）
Colour change : Yellow → Reddish purple
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 5 %（for 1 to 15 ppm）
Tube quantity and number of tests per box : 10 tubes for 5 tests
Shelf life : 24 months

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	≧ 1/10	+	Reddish purple
Chlorine	≧ 1/40	−	White
Vinyl chloride	≧ 1/10	+	Reddish purple
1,2-Dichloroethylene	≧ 1/10	+	Reddish purple
Tetrachloroethylene	≧ 1/20	+	Reddish purple
1,1,1-Trichloroethane	≦ 400 ppm	No	No
Toluene, Xylene	≧ 10 ppm	−	No

Calibration gas generation

Diffusion tube method