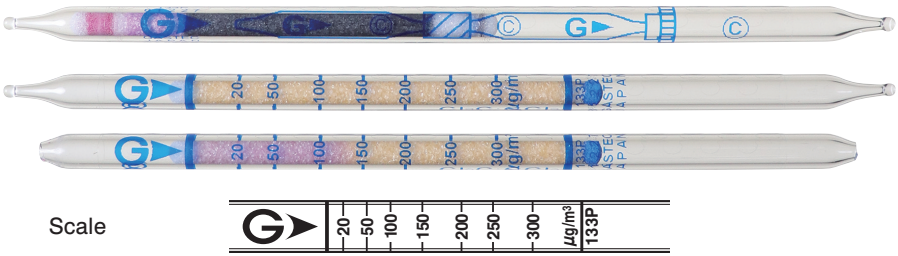
Detector tube

Tetrachloroethylene $Cl_2C:CCl_2$ No.133P



Performance

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

Measuring range	20 to 300 μg/m³	300 to 720 μg/m³
Sampling rate	100 mL/min (3000 mL)	100 mL/min (1500 mL)
Correction factor	1	2.4
Sampling time	30 min	15 min

Detecting limit : 5 μg/m³ (3000 mL)
Colour change : Yellow → Purple
Operating conditions : Temperature 5 to 40 °C (41 to 104 °F) correction used
Relative humidity 20 to 80 % correction not used
Relative standard deviation : 10 % (for 20 to 100 μg/m³), 5 % (for 100 to 300 μg/m³)
Tube quantity and number of tests per box : 10 tubes for 5 tests
Shelf life : 24 months

Reaction principle

$Cl_2C:CCl_2 + PbO_2 + H_2SO_4 \rightarrow HCl$
$HCl + Base \rightarrow Chloride$

Possible coexisting substances and their interferences

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

Calibration gas generation

Permeation tube method

Special note

In case of outdoor measurement, keep the tube out of direct sunlight.