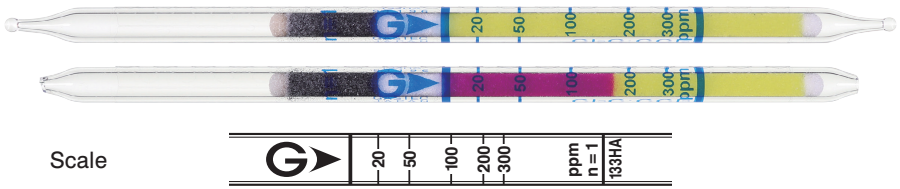
Tetrachloroethylene $Cl_2C{:}CCl_2$ No.133HA



Performance

Measuring range	7 to 20 ppm	20 to 300 ppm	300 to 900 ppm
Number of pump strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	1/3	1	3
Sampling time	1.5 min	45 sec	30 sec

Detecting limit : 0.5 ppm (2 pump strokes)
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 : 10 %(for 20 to 100 ppm), 5 %(for 100 to 300 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 30 months (in the refrigerator)

Reaction principle

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

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Bromine, Chlorine		+	Reddish purple
Hydrogen chloride		+	
Trichloroethylene		+	
1,1,1-Trichloroethane	≧ 3000 ppm	+	

Calibration gas generation

Diffusion tube method