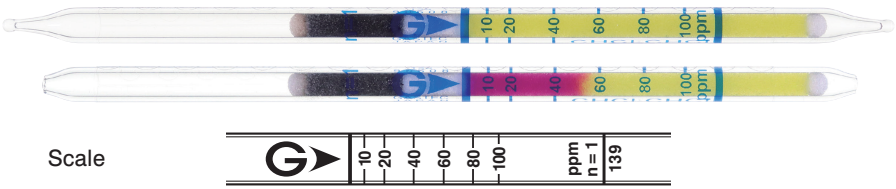
1,2-Dichloroethylene ClCH:CHCl No.139



Performance

Measuring range	5 to 10 ppm	10 to 100 ppm	100 to 185 ppm
Number of pump strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	1/2	1	1.85
Sampling time	1.5 min	45 sec	30 sec

Detecting limit : 1 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 10 to 20 ppm), 5 % (for 20 to 100 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 30 months (in the refrigerator)

Reaction principle

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

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Halogens		+	Reddish purple
Hydrogen chloride		+	
Tetrachloroethylene		+	
Trichloroethylene		+	
Nitric oxide		No	No
Nitrogen oxides		No	No

Calibration gas generation

Diffusion tube method

(Last updated: Feb. 2026)