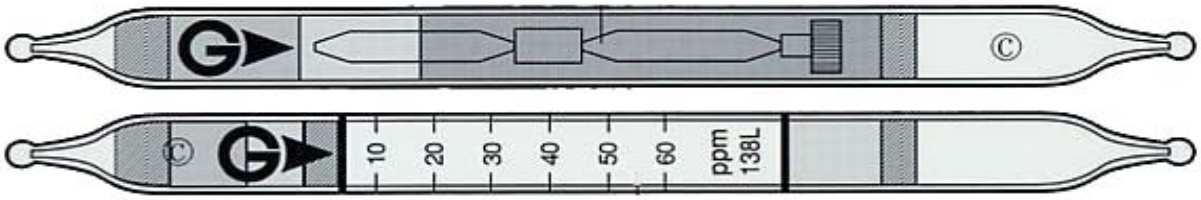
Methylene chloride CH_2Cl_2 NO.138L



Performance

Measuring Range	4 to 10 ppm	10 to 60 ppm	60 to 150 ppm
Number of Pump Stroke	4	2	1
Correction Factor	0.4	1	2.5
Sampling Time	3 minutes per pump stroke		
Detecting Limit	5 ppm (n=2)		
Colour Change	White ⟶ Pale Pink		
Reaction Principle	Methylene chloride is oxidized and produces intermediate products in the primary tube. It reacts with detecting agent to produce pale pink stain. $CH_2Cl_2 + CrO_3 + H_2S_2O_7 \longrightarrow Cl_2$ Cl2 + 3, 3, 5, 5-Tetramethylbenzidine ⟶ Holoquinone		
Coefficient of Variation	15% (for 10 to 20 ppm), 10% (for 20 to 60 ppm)		
Shelf Life	2 Years		
Corrections for temperature & humidity	Temperature correction is necessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Chlorine, Bromine, Iodine	-	Plus error	Discolours pale pink
Unsaturated halogenated Hydrocarbons	≧6 ppm	Plus error	Discolours pale pink
Saturated halogenated Hydrocarbons	≧3 ppm	Plus error	Discolours pale pink

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
50ppm	-	15.5 to 66.9%