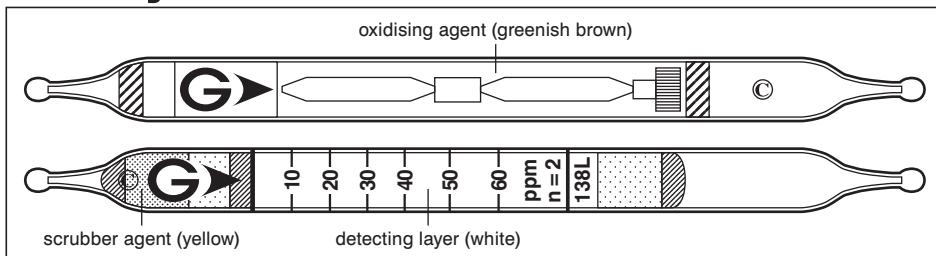


Methylene Chloride CH_2Cl_2

No.138L



Performance

When used, these tubes are to be connected.

Measuring range	4 to 10 ppm	10 to 60 ppm	60 to 150 ppm
Number of pump strokes	4 (400 ml)	2 (200 ml)	1 (100 ml)
Correction factor	0.4	1	2.5
Sampling time	12 min	6 min	3 min

Detecting limit : 3 ppm (4 pump strokes)

Colour change : White → Pale pink

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 15 % (for 10 to 20 ppm) , 10 % (for 20 to 60 ppm)

Shelf life : 2 years

Reaction principle

Pretreatment tube : $\text{CH}_2\text{Cl}_2 + \text{CrO}_3 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{Cl}_2$

Detector tube : $\text{Cl}_2 + 3,3,5,5\text{-Tetramethylbenzidine} \rightarrow \text{Holoquinone}$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Chlorine, Bromine, Iodine		+	Pale pink
Unsaturated halogenated HCs	≥ 6 ppm	+	Pale pink
Saturated halogenated HCs	≥ 3 ppm	+	Pale pink

Calibration gas generation

Diffusion tube method