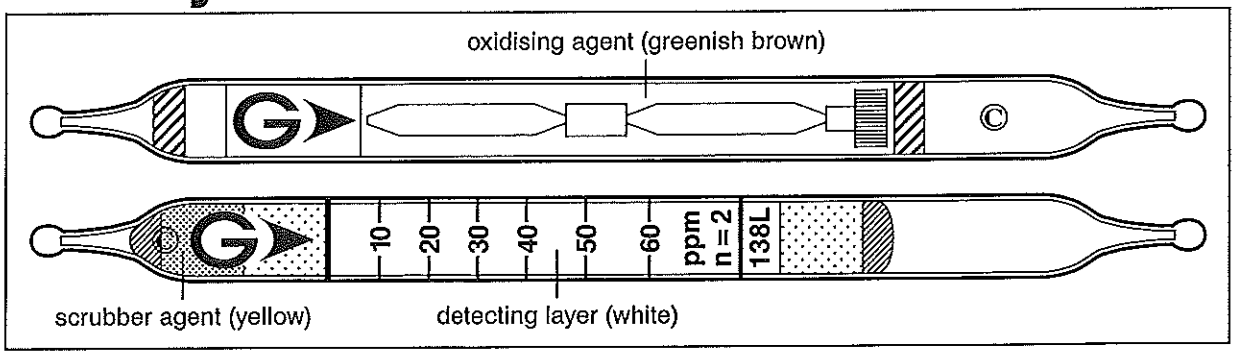
Methylene Chloride CH_2Cl_2 No.138L



Performance

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

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 : 5 ppm (2 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 : $CH_2Cl_2 + CrO_3 + H_2S_2O_7 \rightarrow Cl_2$
Detector tube : Cl_2 + 3,3,5,5-Tetramethylbenzidine → Holoquinone

Possible coexisting substances and their interferences (NOTE : Page 2-5)

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

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