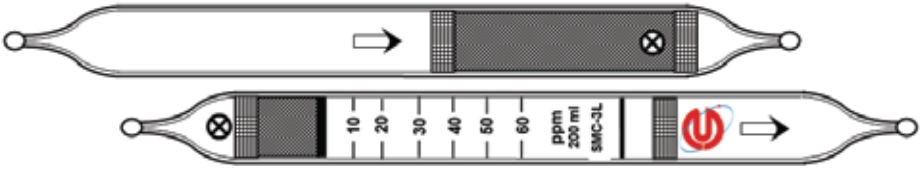
Methylene Chloride CH_2Cl_2 SMC-3L



Specification :

	Extended	Standard	Extended
Measurement Range	Do not extend	10 – 60 ppm	Do not extend
No. of Pump Strokes		2 (200 ml)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2.0 minutes per pump stroke (100 ml)		
Color Change	White → Pale pink		
Detection Limit	5 ppm (2 pump strokes)		
Shelf Life	2 years		
Relative standard deviation	± 10 – 15 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Reaction Principle :

$CH_2Cl_2 + Cr^{6+} + H_2SO_4 \rightarrow Cl_2$

Cl_2 + 3,3′,5,5′-Trimethylbenzidine → Pale Pink reaction product

Possible Interferences :

Compound	Concentration (ppm)	Interference	Color Change / Comments
Chlorine		+	Pale pink
Trichloroethylene	≥5	+	Pale pink
Methyl chloride	≥5	+	Pale pink
Methyl bromide	≤18	No	No Effect
111 trichloroethane	≤50	No	No Effect

Correction For Environmental Parameters :

Temperature	Not necessary between 0 - 40˚C (32 - 104˚F).
Relative humidity	Not necessary between 10 - 90 %.

Calibration Of The Tube :

Static gas dilution method.

TLV (TWA): 100 ppm TLV (STEL): 500 ppm Flammable Range: 13 -22 %