

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Methylene Chloride $\text{CH}_2\text{Cl}_2$ SMC-4M

TWA (TLV): 50 ppm

STEL (TLV): NA

Flammable Range: 15.5 -66.9%

### Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	50 – 500 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 → Yellow		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$\text{CH}_2\text{Cl}_2 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cl}_2$ $\text{Cl}_2 + \text{o-Tolidine} \rightarrow \text{Yellow reaction product}$		
Relative standard deviation	± 10 %		

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

### Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
$\text{Cl}_2$		+	White to Yellow
$\text{Br}_2$		+	
Chlorobenzene		+	
N – Hexane		+	White to Pale Yellow
1,2 Dichloroethane		+	
1,1,1-Trichloroethane	50	No	No Effect
$\text{CH}_3\text{Br}$	18	No	No Effect

### Correction for Environmental Parameters:

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



**Manufactured By:** Uniphos Envirotronic Pvt. Ltd.  
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