

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Methylene Chloride CH_2Cl_2 SMC-4M

TLV (TWA): 50 ppm

TLV (STEL): ----

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 – 15 %		

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

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Cl_2		+	Yellow
Chlorobenzene		+	Yellow
N – Hexane		+	Pale Yellow
1,2 Dichloroethane		+	Yellow

Correction for Environmental Parameters:

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



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