

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Vinylidene Chloride $\text{CH}_2\text{:CCl}_2$ SVH-2M

TLV (TWA): 5 ppm

TLV (STEL): -----

Flammable Range: 6.5 – 15.5 %

Specification:

Measurement Range	Extended 0.3 - 1 ppm	Standard 1 - 14 ppm	Extended Do not extend
No. of Pump Strokes	3 (300 mL)	1 (100 mL)	
Volume Correction Factor (VCF)*	0.3	1.0	
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	Yellow → Pink		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$\text{CH}_2\text{:CCl}_2 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{HCl}$ $\text{HCl} + \text{Base} \rightarrow \text{Reaction product}$		
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
Benzene	≥ 400	-	No color change with interference gas alone
Ethylene	≥ 300	-	No color change with interference gas alone
Tetrachloroethylene	≥ 2	+	Yellow to Pink
Trichloroethylene	≥ 5	+	Yellow to Pink
Vinyl Chloride	≥ 2	+	Yellow to Pink

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.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396105

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