

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Trichloroethylene $\text{Cl}_2\text{C}:\text{CHCl}$

TLV (TWA): 50 ppm

TLV (STEL):100 ppm

SCE-4L

Flammable Range:---

Specification:

Measurement Range	Extended Do not extend	Standard 20 – 250 ppm	Extended Do not extend
No. of Pump Strokes		2 (200 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	1.5 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	$\text{Cl}_2\text{C}:\text{CHCl} + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cl}_2$ $\text{Cl}_2 + \text{o-Tolidine} \rightarrow \text{Reaction product}$		
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
1,2 Dichloroethylene		+	Yellow
Chlorine		+	Yellow
Hydrogen chloride		+	Yellow

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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