

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Trichloroethylene

Cl₂C:CHCl

SCE-6

TLV (TWA): 50 ppm

TLV (STEL):100 ppm

Flammable Range: -----

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.05 – 1 %	Do not extend
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	White → Yellowish brown		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	Cl ₂ C:CHCl + Cr ⁶⁺ + H ₂ SO ₄ → Cl ₂ Cl ₂ + o-Tolidine → 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
Acetylene		+	Brown
Carbon monoxide		+	Brown
Tetrachloroethylene		+	Yellowish brown
1,1,1 Trichloroethylene		+	Yellowish brown
Toluene		+	Brown

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 – 396108

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