

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Tetrachloroethylene



STE-3

TLV (TWA): 25 ppm

TLV (STEL):100 ppm

Flammable Range: 10.8 to 54.5 (in oxygen)

Specification:

Measurement Range	Extended	Standard	Extended
	2.5 – 5 ppm	5 – 100 ppm	100 – 200 ppm
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
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 (Double Tube)	$\text{Cl}_2\text{C}:\text{CCl}_2 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cl}_2$ (Pre-treatment Tube) $\text{Cl}_2 + o\text{-Tolidine} \rightarrow$ Reaction product (Detector tube)		
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
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.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396108

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