

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Tetrachloroethylene $\text{Cl}_2\text{C}:\text{CCl}_2$ STE-3

TWA (TLV): 25 ppm

STEL (TLV): 100 ppm

Flammable Range: 10-16%

Specification:

	Extended	Standard	Extended
Measurement Range	2.5 – 50 ppm	5 – 100 ppm	10– 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	$\text{Cl}_2\text{C}:\text{CCl}_2 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cl}_2$ $\text{Cl}_2 + \text{o-Tolidine} \rightarrow \text{Reaction product}$		
Relative standard deviation	± 10 %		

* 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		+	White to Yellow
Cl_2		+	White to Yellow
HCl		+	White to 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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