

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

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

SCE-6

TWA (TLV): 50 ppm

STEL (TLV): 100 ppm

Flammable Range: NA

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	$\text{Cl}_2\text{C}:\text{CHCl} + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cl}_2$ $\text{Cl}_2 + \text{o-Tolidine} \rightarrow \text{Reaction product}$		
Relative standard deviation	± 10 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Acetylene		+	White to Brown
CO		+	White to Brown
Tetrachloroethylene		+	White to Yellowish brown
1,1,1 Trichloroethylene		+	White to 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 %.



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