

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

1,1,1-Trichloroethane CH_3CCl_3 **STC-4M**

TWA (TLV): 350 ppm

STEL (TLV): 450 ppm

Flammable Range: NA

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	100 – 500 ppm	Do not extend
No. of Pump Strokes	1 (100 mL)		
Volume Correction Factor (VCF)*	1.0		
Sampling Time	2.0 minutes per pump stroke (100 mL)		
Color Change	White → Orange		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$\text{CH}_3\text{CCl}_3 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cl}_2$ $\text{Cl}_2 + \text{o-Tolidine} \rightarrow \text{Orange Reaction product}$		
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-Dichloromethane	500	Positive	White to Orange

Correction for Environmental Parameters:

Temperature (°C) :	5	20	30	40
Temperature Correction Factor (TCF)* :	2.0	1	0.66	0.5

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

Relative humidity	Not necessary between 10 - 90 %.
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Manufactured By: Uniphos Envirotronic Pvt. Ltd.(100% EOU)
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