

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## 1,2-Dichloroethylene $C_2H_2Cl_2$ SDH-4M

TLV (TWA): 200 ppm

TLV (STEL): ----

Flammable Range: 5.6 – 12.8 %

### Specification:

Measurement Range	Extended	Standard	Extended
	10 – 20 ppm	20 – 400 ppm	400 – 800 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	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 (Double Tube)	$C_2H_2Cl_2 + CrO_3 + H_2S_2O_7 \rightarrow Cl_2$ (Pre-Treatment Tube) $Cl_2 + o - Tolidine \rightarrow$ Reaction product (Detector Tube)		
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
Trichloroethylene		+	Orange
Chlorine		+	Orange
Hydrochloric acid		+	Orange

### 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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