

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

1,2-Dichloroethane

$C_2H_4Cl_2$

SDC-2

TLV (TWA): 10 ppm

TLV (STEL): ---

Flammable Range: 6.2 – 16.0 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	1 – 50 ppm	Do not extend
No. of Pump Strokes		2 (200 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2.5 minutes per pump stroke (100 mL)		
Color Change	White → Orange / 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)	$C_2H_4Cl_2 + CrO_3 + H_2S_2O_7 \rightarrow Cl_2$ (Pre-Treatment Tube) $Cl_2 + o\text{-Tolidine} \rightarrow$ 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
Nitrogen Oxides		+	Orange / Yellow
Halogens		+	Orange / Yellow
Halogenated Hydrocarbons		+	Orange / Yellow

Correction for Environmental Parameters:

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
Relative humidity	Not necessary between 10 - 90 % RH.



Manufactured By: Uniphos Envirotronic Pvt. Ltd. (100% EOU)
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