

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

1,2-Dichloroethane $C_2H_4Cl_2$ SDC-2

TWA (TLV): 200 ppm

STEL (TLV): NA

Flammable Range: 5.6 – 12.8 %

Specification:

	Extended	Standard	Extended
Measurement Range	2.5 – 25 ppm	5 – 50 ppm	10 – 100 ppm
No. of Pump Strokes	4 (400 mL)	2 (200 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	2.5 minutes per pump stroke (100 mL)		
Color Change	White → Purple		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$C_2H_4Cl_2 + CrO_3 + H_2S_2O_7 \rightarrow Cl_2$ $Cl_2 + 3,3'$ Dimethyl naphthadiene → 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
Nitrogen Oxides		+	White to Purple
Halogens		+	White to Purple
Halogenated Hydrocarbons		+	White to Purple
Hexane	100	No	No Effect

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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