

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Diethyl Ether

(C₂H₅)₂O

SDE-6

TLV (TWA): 400 ppm

TLV (STEL): ---

Flammable Range: 1.9 – 36 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.04 – 1 %	Do not extend
No. of Pump Strokes	1 (100 mL)		
Volume Correction Factor (VCF)*	1.0		
Sampling Time	2.0 minute per pump stroke (100 mL)		
Color Change	Yellow → Pale green		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	(C ₂ H ₅) ₂ O + Cr ⁶⁺ + H ₂ SO ₄ → Cr ³⁺		
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
Alcohols		+	Pale green
Esters		+	Pale green
Ketones		+	Pale green
Aromatic Hydrocarbons		+	Pale green
Ethers		+	Pale green
Furans		+	Pale green

Other measurable compounds:

Compound	Correction Factor	No. of pump strokes	Measuring range
Isopropyl ether	0.34	3(300mL)	0.0136 – 0.34 %

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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