

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Diethyl Ether (C₂H₅)₂O

SDE-6

TWA (TLV): 400 ppm

STEL (TLV): NA

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 %		

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

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Alcohols		+	Yellow to Pale green
Esters		+	Yellow to Pale green
Ketones		+	Yellow to Pale green
Aromatic Hydrocarbons		+	Yellow to Pale green
Ethers		+	Yellow to Pale green
Furans		+	Yellow to Pale green

Other measurable compounds:

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

* Multiply the observed reading by the correction factor (VCF x GCF) to obtain the true concentration.

Correction for Environmental Parameters:

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



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Rev.0812