

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Ethanol

C₂H₅OH

SET-7

TLV (TWA): 1000 ppm

TLV (STEL): -----

Flammable Range: 3.3 – 19%

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.05 - 5 %	Do not extend
No. of Pump Strokes	2 (200 mL)		
Volume Correction Factor (VCF)*	1		
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	Yellow → Light 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 OH + 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		+	Light green
Esters		+	Light green
Ketones		+	Light green
Aromatic Hydrocarbons		+	Light green
Hydrogen Sulphide		+	Diffuse
Carbon Monoxide	1000	No	No Effect
Carbon Dioxide	5000	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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