

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Ethyl Formate



SEF-4M

TLV (TWA): ---

TLV (STEL): 100 ppm

Flammable Range: 2.8 – 16 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	20 – 500 ppm	Do not extend
No. of Pump Strokes	2 (200 mL)		
Volume Correction Factor (VCF)*	1.0		
Sampling Time	3.0 minutes per pump stroke (100 mL)		
Color Change	Yellow → Pale Green		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$C_3H_6O_2 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$		
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

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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