

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Ethyl Acetate

$C_4H_8O_2$

SEA-7

TLV (TWA): 400 ppm

TLV (STEL): -----

Flammable Range: 2.0 – 11.5 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.1 – 5 %	Do not extend
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2.5 minutes 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	$C_4H_8O_2 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$		
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
Hydrogen Sulphide		+	Diffuse

Measurement of Methyl Acetate:

Ethyl acetate tube (SEA-7) can be used for the measurement of methyl acetate. The below table gives Methyl acetate concentration corresponding to scale reading.

Scale reading in % (v/v)	(n=1)	Conc. of Ethyl acetate in % (v/v)							
		0.1	0.3	0.5	1.0	2.0	3.0	4.0	5.0
Methyl acetate conc. In % (v/v)	(n=1)	0.1	0.3	0.5	0.85	1.60	2.60	3.60	---

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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