

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

1,2,4-Trimethylbenzene $C_6H_3(CH_3)_3$ SLB-4L

TLV (TWA): 25 ppm (125 mg/m³)

TLV(STEL):----

Flammable Range: 0.9 – 6.4 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	10 – 250 ppm	Do not extend
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2 minutes per pump stroke (100 mL)		
Color Change	Yellow → Brownish 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	$C_6H_3(CH_3)_3 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$		
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		+	Brown
Esters		+	Brown
Ketones		+	Brown

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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