

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Methyl Isobutyl Ketone $C_6H_{12}O$ SMI-6L

TLV (TWA): 20 ppm

TLV (STEL): 75 ppm

Flammable Range: 1.2 – 8 %

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.02 - 0.6 %	Do not extend
No. of Pump Strokes	3 (300 mL)		
Volume Correction Factor (VCF)*	1		
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	Orange → Brownish 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	$C_6H_{12}O + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$		
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		+	Brownish green
Esters		+	Brownish green
Ketones		+	Brownish green
Aromatic Hydrocarbons		+	Brownish green
Ammonia		+	Brownish green
Hydrogen sulphide		+	Brownish green
Carbon monoxide	15000	No	No Effect
Methane	2.5%	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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