

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Methanol

## CH<sub>3</sub>OH

## SME-5

TLV (TWA): 200 ppm

TLV (STEL): 250 ppm

Flammable Range: 6-36.5%

### Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	100 – 5000 ppm	Do not extend
No. of Pump Strokes	1 (100 mL)		
Volume Correction Factor (VCF)*	1		
Sampling Time	1.5 minutes per pump stroke (100mL)		
Color Change	Yellow → Light 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	$\text{CH}_3\text{OH} + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cr}^{3+}$		
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
Carbon dioxide	10 %	No	No Effect
Carbon monoxide	1000	No	No Effect
Sulphur dioxide		No	No Effect
Acetone	1%	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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