

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Toluene

TWA (TLV): 50 ppm



STEL (TLV): NA

## STO-4M

Flammable Range: 1-7%

### Specification:

Measurement Range	Extended	Standard	Extended
	5 – 150 ppm	10 - 300 ppm	20 – 600 ppm
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	White → Brown		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$C_7H_8 + I_2O_5 + H_2S_2O_7 \rightarrow I_2$		
Relative standard deviation	± 10 %		

\* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

### Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
H <sub>2</sub> S		+	Faint ring
CO		+	Faint ring
n – Hexane		+	Ring
Xylene		+	White to Brown
NH <sub>3</sub>	50000	No	No effect
CO <sub>2</sub>	15000	No	No effect
CH <sub>4</sub>	25000	No	No effect
SO <sub>2</sub>	2000	No	No effect
Isobutylene	106	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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