

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Toluene

TWA (TLV): 50 ppm

C₇H₈

STEL (TLV): NA

STO-2

Flammable Range: 1-7%

Specification:

	Extended	Standard	Extended
Measurement Range	Do not extend	2-50 ppm	Do not extend
No. of Pump Strokes		2 (200 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2 minutes per pump stroke (100 mL)		
Color Change	White → Brown		
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 ₇ H ₈ + I ₂ O ₅ + H ₂ S ₂ O ₇ → 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
Isobutylene		+	White to Very pale brown
Xylene		+	White to Brown
CO		+	Faint beige entire tube
Styrene		+	White to Very pale brown
NH ₃	1000	No	No effect
SO ₂	30	No	No effect
n-Hexane	50	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.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396108

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