

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Toluene

TLV (TWA): 50 ppm

C₇H₈

TLV (STEL): ----

STO-4M

Flammable Range: 1-7%

Specification:

Measurement Range	Extended	Standard	Extended
	5 – 10 ppm	10 - 300 ppm	300 – 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 ₇ H ₈ + I ₂ O ₅ + H ₂ S ₂ O ₇ → I ₂		
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
Hydrogen sulphide		+	Faint ring
Carbon monoxide		+	Faint ring
n – Hexane		+	Ring
Xylene		+	Brown
Ammonia	50000	No	No effect
Carbon dioxide	15000	No	No effect
Methane	25000	No	No effect
Sulphur dioxide	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 %.

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