

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
	Do not extend	10 - 300 ppm	Do not extend
No. of Pump Strokes	1 (200 mL)		
Volume Correction Factor (VCF)*	1.0		
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 ₂ S		+	Faint ring
CO		+	Faint ring
n – Hexane		+	Ring
Xylene		+	White to Brown
CO ₂	15000	No	No effect
CH ₄	25000	No	No effect
SO ₂	2000	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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