

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Benzene

C₆H₆

SBE-2

TLV (TWA): 0.5 ppm

TLV (STEL): 2.5 ppm

Flammable Range: 1-8%

Specification:

Measurement Range	Extended	Standard	Extended
	1.25 – 2.5	2.5 – 50 ppm	50 – 100
No. of Pump Strokes	4 (400 mL)	2 (200 mL)	1 (100 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	White → Brownish green		
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 ₆ H ₆ + 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
Aromatic hydrocarbon		+	Brownish green
Hydrogen Sulphide	25	+	Brown ring
Nitrogen oxide	100	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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