

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Benzene

C₆H₆

SBE-2L

TLV (TWA): 0.5 ppm

TLV (STEL): 2.5 ppm

Flammable Range: 1-8%

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.25 - 12 ppm	Do not extend
No. of Pump Strokes	5 (500 mL)		
Volume Correction Factor (VCF)*	1.0		
Sampling Time	2.5 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 (Double Tube)	$C_6H_6 + I_2O_5 + H_2S_2O_7 \rightarrow I_2$		
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		+	Brown ring
Xylene		+	Brownish green
Carbon Monoxide	10	No	No Effect
Isobutylene	106	No	No Effect
Styrene	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 %.



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