

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Benzene

C₆H₆

SBE-3

TLV (TWA): 0.5 ppm

TLV (STEL): 2.5 ppm

Flammable Range: 1-8%

Specification:

Measurement Range	Extended	Standard	Extended
	2.5 – 5	5 - 100 ppm	100 - 200
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2
Sampling Time	2 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	$C_6H_6 + I_2O_5 + H_2S_2O_7 \rightarrow I_2$		
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
Aromatic hydrocarbons		+	Brownish green
Hydrogen Sulphide	50		Brown ring
Isobutylene		+	Brownish green
Toluene		+	Brownish green

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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