

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Benzene

C₆H₆

SBE-2M

TLV (TWA): 0.5 ppm

TLV (STEL): 2.5 ppm

Flammable Range: 1-8%

Specification:

Measurement Range	Extended	Standard	Extended
	1 – 75 ppm	0.2 - 15 ppm	0.1-7.5 ppm
No. of Pump Strokes	1 (100 mL)	5 (500 mL)	10 (1000 mL)
Volume Correction Factor (VCF)*	5	1.0	0.5
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 (Double Tube)	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
Toluene	5	+	Brown
Xylene	15	+	Brown
CO	10	+	Brown
Hexane	15	+	Brown

Correction for Environmental Parameters:

Temperature (°C) :	10	20	30	40
Temperature Correction Factor (TCF) *:	1.09	1	0.95	0.89

* Multiply the observed reading by the correction factor (VCFXTCF) to obtain the true concentration.

Relative humidity	Not necessary between 10 - 90 %.
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Manufactured By: Uniphos Envirotronic Pvt. Ltd.
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