

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Methyl Bromide $\text{CH}_3\text{Br}$

## SMB-4

TLV (TWA): 1 ppm

TLV (STEL): ----

Flammable Range: 10-16%

### Specification:

Measurement Range	Extended	Standard	Extended
	25 – 50 ppm	50 – 1000 ppm	1000 – 2000 ppm
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	2.5 minutes per pump stroke (100 mL)		
Color Change	White → Brown		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle (Double tube)	$\text{CH}_3\text{Br} + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Br}_2$ $\text{Br} + \text{o} - \text{Tolidine} \rightarrow \text{Brown reaction product}$		
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
Halogens		+	Brown
Tetrachloroethylene		+	Brown
Trichloroethylene		+	Brown
1,2-Dichloroethane	200	No	No Effect
1,1,1-Trichloroethane	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 %.



**Manufactured By:** Uniphos Envirotronic Pvt. Ltd.  
Nahuli (PO), Umbergaon (Tal.)  
Valsad (Dist), Gujarat, India – 396108

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