

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Methyl Bromide

CH₃Br

SMB-2M

TLV (TWA): 1 ppm

TLV (STEL): ----

Flammable Range: 10-16%

Specification:

Measurement Range	Extended	Standard	Extended	Extended
	0.5-1 ppm	1-18 ppm	18-36 ppm	36-80 ppm
No. of Pump Strokes	3 (300 mL)	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0	4.5
Sampling Time	2.5 Minutes per pump stroke (100 mL)			
Color Change	White → Yellow			
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)	CH ₃ Br + Cr ⁶⁺ + H ₂ SO ₄ → Br ₂ Br + o - Tolidine → Yellow 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		+	Yellow
Tetrachloroethylene		+	Yellow
Trichloroethylene		+	Yellow
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.
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