

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Methyl Bromide CH_3Br

SMB-3

TWA (TLV): 1 ppm

STEL (TLV): NA

Flammable Range: 10-16%

Specification:

Measurement Range	Extended	Standard	Extended
	5 – 50 ppm	10 – 100 ppm	20 – 200 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	2.0 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	$\text{CH}_3\text{Br} + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Br}_2$ Br + o - Tolidine → Yellow reaction product		
Relative standard deviation	± 10 %		

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

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Halogens		+	White to Yellow
Tetrachloroethylene		+	White to Yellow
Trichloroethylene		+	White to 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 %.



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