## **Uniphos Detector Tube Data Sheet**

Direct Reading Length of Stain Type

# t-Butyl Mercaptan с₄н₅sн

SBM-1

TLV (TWA): 0.5 ppm TLV (STEL): ----Flammable Range: -----

## **Specification:**

Management Dance	Extended	Standard	Extended
Measurement Range	Do not extend	0.5 - 30 mg/m3	Do not extend
No. of Pump Strokes		2 (200 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	1 minute per pump stroke (100 mL)		
Color Change	Yellow → Pink		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20	°C (68°F) and 50% F	RH.
Reaction Principle	$C_4H_9 SH + HgCl_2 \rightarrow CH_3S.HgCl + HCl$		
	HCI + Base → Chloride		
Relative standard deviation	± 10 – 15 %		

<sup>\*</sup> Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

#### **Possible Interferences:**

Compound	Concentration (mg/m3)	Interference	Colour change / Comments
Other Mercaptans		+	Pink
Phosphine		+	Pink
Hydrogen sulphide		+	Pink
Ammonia	15	=	No effect
Sulphur dioxide	30	=	No effect
Carbon dioxide	100	-	No effect

# Other measurable compounds:

Compound	Correction Factor	No. of pump strokes	Measuring range
Ethyl Mercaptan	1	2	0.5 - 30 mg/m3
Methyl Mercaptan	1	2	0.5 - 30 mg/m3

### **Correction for Environmental Parameters:**

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
Relative humidity	Not necessary between 10 - 90 %.