

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Ethyl Mercaptan $C_2H_5SH$

## SEM-2M

TWA (TLV): 0.5 ppm

STEL (TLV): NA

Flammable Range: 3-18%

### Specification:

Measurement Range	Extended	Standard	Extended
	0.5-10 ppm	1-20 ppm	2-40 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		
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% RH.		
Reaction Principle	$C_2H_5SH + HgCl_2 \rightarrow C_2H_5S.HgCl + HCl$ $HCl + Base \rightarrow Chloride$		
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
Other Mercaptans		+	Yellow to Pink
PH <sub>3</sub>		+	Yellow to Pink
H <sub>2</sub> S		+	Yellow to Pink
HCN		+	Yellow to Pink
NH <sub>3</sub>	100	No	No effect
SO <sub>2</sub>	30	No	No effect

### Other measurable compounds:

Compound	Correction Factor (GCF)*	No. of pump strokes	Measuring range
Methyl Mercaptan	1	1	1 - 20 ppm
t-Butyl Mercaptan	1	1	1 - 20 ppm

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

### 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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