Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Ethyl Mercaptan с₂н₅sн

SEM-4L

TWA (TLV): 0.5 ppm STEL (TLV): NA Flammable Range: 3-18%

Specification:

Management Dance	Extended	Standard	Extended
Measurement Range	2.5- 60 ppm	5-120 ppm	10- 240 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	1.5 minutes per	pump stroke	
Color Change	Yellow → Pink		
Shelf Life	1year		_
Storage condition	Below 10°C (50°	°F)	
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$C_2H_5SH + HgCl_2 \rightarrow C_2H_5S.HgCl + HCl$		
	HCI + Base → 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 ₃		+	Yellow to Pink
H ₂ S		+	Yellow to Pink
Arsine		+	Yellow to Pink
HCN		+	Yellow to Pink
NH ₃	100	No	No effect
SO ₂	30	No	No effect

Other measurable compounds:

Compound	Correction Factor (GCF)*	No. of pump strokes	Measuring range
Methyl Mercaptan	1	1	5 - 120 ppm
t-Butyl Mercaptan	1	1	5 - 120 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 %.	

(1)

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