Uniphos Detector Tube Data Sheet Direct Reading Length of Stain Type

t-Butyl Mercaptan C4H9SH



Flammable Range: NA

Specification:

Management Danse	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 (100 n	nL)
Color Change	Yellow \rightarrow 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	$C_4H_9 SH + HgCl_2 \rightarrow CH_3S.HgCl + HCl$		
	HCI + Base \rightarrow 0	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
Mercaptans		+	Yellow to Pink
PH ₃		+	Yellow to Pink
H ₂ S		+	Yellow to Pink
Arsine		+	Yellow to Pink
HCN		+	Yellow to Pink
CO ₂	10%	No	No effect
NH ₃	100	No	No effect
SO ₂	30	No	No effect

Other measurable compounds:

Compound	Correction Factor	No. of pump strokes	Measuring range
Ethyl Mercaptan	1	1	5 - 120 ppm
Methyl Mercaptan	1	1	5 - 120 ppm

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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