Uniphos Detector Tube Data Sheet Direct Reading Length of Stain Type

t-Butyl Mercaptan C4H9SH



Flammable Range: NA

Specification:

	Extended	Standard	Extended
Measurement Range	Do not extend	0.5-15 mg/m3	Do not extend
No. of Pump Strokes		3 (300 mL)	
Volume Correction Factor (VCF)*		1.0	
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.
Departion Dringinla	C₄H ₉ SH + HgCl	$_2 \rightarrow CH_3S.HgCl + H$	CI
Reaction Principle	HCl + Base \rightarrow C	Chloride	
Relative standard deviation	± 10 %		

* 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 Mercaptan		+	Yellow to Pink
PH ₃		+	Yellow to Pink
H_2S		+	Yellow to Pink
NH ₃	15	-	No effect
SO ₂	30	-	No effect
CO ₂	100	-	No effect

Other measurable compounds:

Compound	Correction Factor	No. of pump strokes	Measuring range
Ethyl Mercaptan	1	3	0.5 - 15 mg/m3
Methyl Mercaptan	1	3	0.5 - 15 mg/m3

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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