

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Sulfide H₂S

TWA (TLV): 1 ppm

STEL (TLV): 5 ppm

SHS-1

Flammable Range: 4-44%

Specification:

	Extended	Standard	Extended
Measurement Range	Do not extend	0.5-10 ppm	Do not extend
No. of Pump Strokes		5 (500 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	1.5 minutes per pump stroke		
Color Change	White → Brown		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	H ₂ S + Pb(CH ₃ COO) ₂ → PbS + 2CH ₃ COOH		
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	100	No	No effect
SO ₂	100	No	No effect

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.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396108

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