

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Sulfide H₂S

TWA (TLV): 1 ppm

STEL (TLV): 5 ppm

SHS-9

Flammable Range: 4-44%

Specification:

	Extended	Standard	Extended
Measurement Range	1-20%	2-40%	Do not extend
No. of Pump Strokes	1 (100 mL)	0.5 (50 mL)	
Volume Correction Factor (VCF)*	0.5	1.0	
Sampling Time	3.5 minutes per ½ pump stroke (50 mL)		
Color Change	Light Blue → Black		
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 + CuSO ₄ → CuS + H ₂ SO ₄		
Relative standard deviation	± 10 %		

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

Possible Interferences:

Compound	Concentration (%)	Interference	Colour change / Comments
Mercaptans		+	Light Blue → Black
NH ₃	0.03	No	No effect
NO ₂	0.02	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

Rev.0812