

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Hydrogen Sulfide H<sub>2</sub>S

TLV (TWA): 1 ppm

TLV (STEL): 5 ppm

## SHS-9

Flammable Range: 4-44%

### Specification:

Measurement Range	Extended	Standard	Extended
	1 – 2 %	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	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	$H_2S + CuSO_4 \rightarrow CuS + H_2SO_4$		
Relative standard deviation	± 10 – 15 %		

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

### Possible Interferences:

Compound	Concentration (%)	Interference	Colour change / Comments
Ammonia	10	No	No effect
Methane	2.5	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.0820