

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Hydrogen Sulfide

H<sub>2</sub>S

SHS-7

TLV (TWA): 1 ppm

TLV (STEL): 5 ppm

Flammable Range: 4-44%

### Specification:

Measurement Range	Extended	Standard	Extended
	0.25 – 0.5 %	0.5 - 4.0%	4.0 - 8.0%
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 mL)		
Color Change	Light blue → Dark 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	$H_2S + CuSO_4 \rightarrow CuS + H_2SO_4$		
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
Nitrogen dioxide	0.1	No	No effect
Carbon monoxide	0.3	No	No effect
Ammonia		No	No effect
Sulphur dioxide		No	No effect
t-Butyl mercaptan	0.5	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.  
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