

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Sulfide

H₂S

SHS-3

TLV (TWA): 1 ppm

TLV (STEL): 5 ppm

Flammable Range: 4-44%

Specification:

Measurement Range	Extended	Standard	Extended
	1 - 5 ppm	5 - 100 ppm	100 - 200 ppm
No. of Pump Strokes	5 to 2 (500 to 200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.1 to 0.5	1.0	2.0
Sampling Time	2 minutes per pump stroke (100 mL)		
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	$H_2S + Pb(CH_3COO)_2 \rightarrow PbS + 2CH_3COOH$		
Relative standard deviation	± 10 – 15 %		

* 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
Sulphur dioxide	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 %.



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