

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Sulfide

H₂S

SHS-2

TLV (TWA): 1 ppm

TLV (STEL): 5 ppm

Flammable Range: 4-44%

Specification:

Measurement Range	Extended	Standard	Extended
	0.25 - 1 ppm	1 - 30 ppm	30 - 60 ppm
No. of Pump Strokes	8 (800 mL)	2 (200 mL)	1 (100 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	White → Light 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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