

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Sulfide

H₂S

SHS-7M

TLV (TWA): 1 ppm

TLV (STEL): 5 ppm

Flammable Range: 4-44%

Specification:

Measurement Range	Extended	Standard	Extended
	0.05 - 1.0%	0.1 - 2.0%	0.2 - 4.0%
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	2.5 minutes per pump stroke (100 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 ₂ S + Cu(NO ₃) ₂ → CuS + HNO ₃		
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
Hydrogen		No	No effect
Methane		No	No effect
Ethane		No	No effect
Propane		No	No effect
Butane		No	No effect
Carbon monoxide		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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