

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Sulfide

H₂S

SHS-8L

TLV (TWA): 1 ppm

TLV (STEL): 5 ppm

Flammable Range: 4-44%

Specification:

Measurement Range	Extended	Standard	Extended
	0.1 - 0.2%	0.2 - 7.0%	7 - 14%
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	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
Nitrogen dioxide	0.1	No	No effect
Carbon monoxide	0.3	No	No effect
Ammonia		No	No effect
Sulphur dioxide		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 %.



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