

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Sulfide in Natural Gas SHS-(1H)

TWA (TLV): 1 ppm

STEL (TLV): 5 ppm

Flammable Range: 4-44%

Specification:

	Extended	Standard	Extended
Measurement Range	0.25- 3.5 ppm	0.5 - 7 ppm	1- 14 ppm
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	2.0 minutes per pump stroke (100 mL)		
Color Change	Yellow → Pink		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH in air.		
Reaction Principle	H ₂ S + HgCl ₂ → HCl + HSHgCl HCl + Base → Chloride		
Relative standard deviation	± 10 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
H ₂ S in Air		+	Yellow to Pink
NH ₃	100	No	No effect
NO ₂	3	No	No effect
SO ₂	20	No	No effect
Mercaptan		+	Yellow to Pink

Correction for Environmental Parameters:

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
Relative humidity	Tubes are calibrated at ≤ 5% RH. Reading drops sharply above 5 % RH.



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
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