

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Sulfide H₂S

TWA (TLV): 1 ppm

STEL (TLV): 5 ppm

SHS-4L

Flammable Range: 4-44%

Specification:

| Measurement Range | Extended | Standard | Extended |
|---------------------------------|---|------------|-------------|
| | 5-125 ppm | 10-250 ppm | 20-500 ppm |
| 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 | 1.0 minutes per pump stroke | | |
| 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 ₂ S + Pb(CH ₃ COO) ₂ → PbS + 2CH ₃ COOH | | |
| 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 |
|------------|---------------------|--------------|--------------------------|
| Mercaptans | 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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