

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Hydrogen Sulfide H<sub>2</sub>S

TWA (TLV): 1 ppm

STEL (TLV): 5 ppm

## SHS-2

Flammable Range: 4-44%

### Specification:

|                                 | Extended  | Standard   | Extended   |
|---------------------------------|---|------------|------------|
| Measurement Range               | 0.5-15 ppm  | 1-30 ppm   | 2-60 ppm   |
| No. of Pump Strokes             | 4 (400 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   |            |            |
| 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 <sub>2</sub> S + Pb(CH <sub>3</sub> COO) <sub>2</sub> → PbS + 2CH <sub>3</sub> 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                |
| SO <sub>2</sub> | 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 %.             |



**Manufactured By:** Uniphos Envirotronic Pvt. Ltd.  
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