

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Phosphine

## PH<sub>3</sub>

## SPH-1L

TLV (TWA): 0.3 ppm

TLV (STEL): 1 ppm

Flammable Range: ~1.8 - 100%

### Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.05 – 2.5 ppm	2.5 – 5 ppm
No. of Pump Strokes		2 (200 mL)	1 (100 mL)
Volume Correction Factor (VCF)*		1.0	2.0
Sampling Time	2.0 minutes per pump stroke (100 mL)		
Color Change	Yellow → Pink		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	PH <sub>3</sub> + 3HgCl <sub>2</sub> → P(HgCl) <sub>3</sub> + 3HCl HCl + Base → Chloride		
Relative standard deviation	± 10 – 15 %		

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

### Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Arsine		+	Pink
Sulphur dioxide	200	No	No Effect
Hydrogen Sulphide		+	Pink

### 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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Rev.0920