# **Uniphos Detector Tube Data Sheet**Direct Reading Length of Stain Type

# Phosphine TWA (TLV): 0.3 ppm

 $PH_3$ 

SPH-1L

STEL (TLV): 1 ppm Flammable Range: ~1.8 - 100%

## Specification:

Management Dance	Extended	Standard	Extended
Measurement Range	Do not extend	0.05 – 2.5 ppm	0.1 – 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	$PH_3 + 3HgCl_2 \rightarrow P(HgCl)_3 + 3HCl$		
	HCI + Base → Chloride		
Relative standard deviation	± 10 %		

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

#### Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Arsine		+	Yellow to Pink
SO <sub>2</sub>	200	No	No Effect
H₂S		+	Yellow to Pink

### **Correction for Environmental Parameters:**

Temperature	Not necessary between 0 - 40°C (32 - 104°F).	
Relative humidity	Not necessary between 10 - 90 %.	