

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Phosphine

PH₃

SPH-5

TLV (TWA): 0.3 ppm

TLV (STEL): 1 ppm

Flammable Range: ~1.8 - 100%

Specification:

Measurement Range	Extended	Standard	Extended
	75 - 150 ppm	150 - 3000 ppm	Do not extend
No. of Pump Strokes	1 (100 mL)	½ (50 mL)	
Volume Correction Factor (VCF)*	0.5	1.0	
Sampling Time	1 minute per ½ pump stroke (50 mL)		
Color Change	Yellow → Black		
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 + Gold compound → Reaction product		
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		+	Black
Sulphur dioxide	3000	No	No Effect
Hydrogen sulphide		+	Black

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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