

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Mercury Vapour Hg

TLV (TWA): 0.025 mg/m³

TLV (STEL): ----

SHG-1L

Flammable Range:---

Specification:

Measurement Range	Extended	Standard	Extended
	Do not extend	0.1 - 2 mg/m ³	0.35 – 7 mg/m ³
No. of Pump Strokes		5 (500 mL)	1 (100 mL)
Volume Correction Factor (VCF)*		1	3.5
Sampling Time	2.0 minutes per pump stroke (100 mL)		
Color Change	White → Pale orange		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$\text{Hg} + 2\text{Cu}_2\text{I}_2 \rightarrow \text{Cu}_2(\text{HgI}_4) + 2\text{Cu}$		
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
Hydrogen sulphide		+	Pale orange
Carbon dioxide	5000	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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