

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Cyanide

HCN

SHN-3

TLV (TWA): NA

TLV (Ceiling): 4.7 ppm

Flammable Range: 6-40%

Specification:

Measurement Range	Extended	Standard	Extended
	2.5 - 5 ppm	5 - 100 ppm	100 - 200 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 (100 mL)		
Color Change	Yellow → Red		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	HCN + HgCl ₂ → 2HCl + Hg (CN) ₂ 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
Sulphur dioxide		+	Red
Hydrogen chloride		+	Red
Hydrogen Sulphide		+	Red
Methane	25000	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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