

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Acrylonitrile

CH₂=CHCN

SAN-4L

TLV (TWA): 2 ppm

TLV (STEL): -----

Flammable Range: 3 – 17 %

Specification:

Measurement Range	Extended	Standard	Extended
	2 - 5 ppm	5 - 120 ppm	Do not extend
No. of Pump Strokes	5 (500 mL)	2 (200 mL)	
Volume Correction Factor (VCF)*	0.4	1.0	
Sampling Time	2.0 minutes per pump stroke (100 mL)		
Color Change	Yellow → Red		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle (Double Tube)	CH ₂ :CHCN + Cr ⁶⁺ + H ₂ SO ₄ → HCN (Pre-treatment tube) 2HCN + HgCl ₂ → 2HCl + Hg (CN) ₂ (Detector tube) HCl + Base → Chloride		
Relative standard deviation	± 10 to 15 %		

Possible interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Hydrochloric acid	40	No	No Effect
Methanol	200	No	No Effect
Acetone	1000	No	No Effect
Hydrogen cyanide	55	+	Red

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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