

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Chloride

HCl

SHC- 3

TLV (TWA): ----

TLV (Ceiling): 2 ppm

Non Flammable

Specification:

Measurement Range	Extended	Standard	Extended
	2.5 – 5 ppm	5 – 100 ppm	100 – 200 ppm
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	1 minute per pump stroke (100 mL)		
Color Change	Yellow → Pink		
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)	HCl + Base → 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
Chlorine		+	Pink
Hydrogen Fluoride		+	Diffused Pink
Ammonia	100	No	No effect
Nitrogen Dioxide	200	No	No effect
Hydrogen sulphide	100	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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Rev.0820