

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Chloride HCl SHC-2M.1

TLV (TWA): ----

TLV (Ceiling): 2 ppm

Non Flammable

Specification:

Measurement Range	Extended	Standard	Extended
	0.2 – 1 ppm	1 – 20 ppm	20 – 40 ppm
No. of Pump Strokes	2 – 5 (200 – 500 mL)	1 (100 mL)	½ (50 mL)
Volume Correction Factor (VCF)*	½ - 1/5	1.0	2.0
Sampling Time	1 minute per pump stroke (100 mL)		
Color Change	Blue → Yellow		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	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	≥1	+	Yellow
Nitric acid	≥30	+	Yellow
Sulphur dioxide	≥50	+	Yellow
Nitrogen dioxide	≥5	+	Yellow
Hydrogen Fluoride	≥150	+	Yellow
Hydrogen Sulphide	≤ 1.5 %	No Effect	No Effect
Carbon dioxide	≤ 20 %	No Effect	No Effect
Ammonia	≤ 0.4 %	-ve	Lower readings

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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