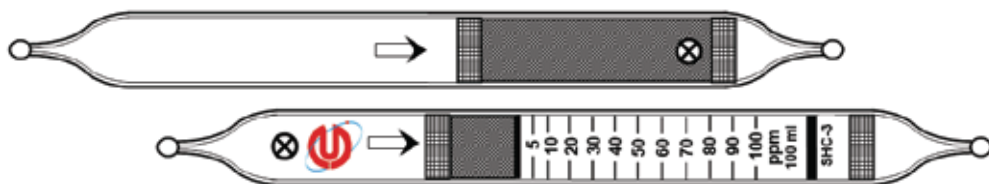


Hydrogen Chloride

HCl

SHC- 3



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 minutes per pump stroke (100 ml)		
Color Change	Yellow → Pink		
Detection Limit	2 ppm (2 pump strokes)		
Shelf Life	1 year		
Relative standard deviation	± 10 – 15 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Reaction Principle :

HCl + Base → Reaction product

Possible Interferences :

Compound	Concentration (ppm)	Interference	Color Change / Comments
Chlorine		+	Pink
Hydrogen fluoride		+	Diffused Pink
Carbon dioxide	≤1000	No	No Effect
Methane	≤2.5%	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 %.

Calibration Of The Tube :

Static gas dilution method.