

**Specification :**

Measurement Range	Extended	Standard	Extended
	0.25 – 0.5 ppm	0.5 – 10 ppm	10 – 75 ppm
No. of Pump Strokes	6(600 ml)	3 (300 ml)	0.5 (50 ml)
Volume Correction Factor (VCF)*	0.5	1.0	7.5
Sampling Time	1.0 minutes per pump stroke (100 ml)		
Color Change	Yellow → Light Pink		
Detection Limit	0.1 ppm (6 pump strokes)		
Shelf Life	2 years		
Relative standard deviation	± 10 – 15 %		

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

Reaction Principle :

$\text{HCl} + \text{Base} \rightarrow \text{Reaction product}$

Possible Interferences :

Compound	Concentration (ppm)	Interference	Color Change / Comments
Chlorine		+	Light Pink
Hydrogen fluoride	≤25	No	No Effect
Ammonia	≤100	No	No Effect
Nitrogen dioxide	≤200	No	No Effect
Carbon dioxide	≤8000	No	No Effect
Hydrogen sulphide	≤800	No	No Effect
Methane	≤2.5%	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.