

**Specification :**

Measurement Range	Extended	Standard	Extended
	50 - 100 ppm	100 - 5000 ppm	Do Not Extend
No. of Pump Strokes	2 (200 ml)	1 (100 ml)	
Volume Correction Factor (VCF)*	0.5	1.0	
Sampling Time	1 minutes per pump stroke (100 ml)		
Color Change	Purple → Yellow		
Detection Limit	20 ppm (2 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
Nitrogen oxide	≥3000	+	Yellow
Chlorine	≥20	+	White
Nitrogen dioxide	≥200	+	Yellow
Carbon monoxide	≤3000	No	No Effect
Carbon dioxide	≤20%	No	No effect
Hydrogen sulphide	≤100	No	No effect
Sulphur dioxide	≤100	No	No effect
n-Hexane	≤3450	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.