

**Specification :**

	Extended	Standard	Extended
Measurement Range	150 - 300 ppm	300 - 8000 ppm	Do not extend
No. of Pump Strokes	1 (100 ml)	½ (50 ml)	
Volume Correction Factor (VCF)*	0.5	1.0	
Sampling Time	0.5 minute per ½ pump stroke (50 ml)		
Color Change	Yellow → Black		
Detection Limit	100 ppm (1 pump stroke)		
Shelf Life	3 years		
Relative standard deviation	± 10 – 15 %		

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

Reaction Principle :

PH₃ + Gold compound → Reaction product

Possible Interferences :

Compound	Concentration (ppm)	Interference	Color Change / Comments
Arsine		+	Black
Hydrogen sulfide		+	Black
Sulfur dioxide	≤ 3000	No	No Effect
Carbon monoxide	≤ 250	No	No Effect
Carbon dioxide	≤ 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.