

**Specification :**

	Extended	Standard	Extended
Measurement Range	2.5 – 5 ppm	5 -100 ppm	100 - 200 ppm
No. of Pump Strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	1.5 minute per pump stroke (100 ml)		
Color Change	Off-white → Dark brown		
Detection Limit	1 ppm (2 pump strokes)		
Shelf Life	3 year		
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		+	Dark brown
Hydrogen sulfide		+	Dark brown
Sulfur dioxide	≤ 200	No	No Effect
Carbon dioxide	≤ 5 %	No	No Effect
Ammonia	≤ 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.