

**Specification :**

Measurement Range	Extended	Standard	Extended
	0.5 – 1 ppm	1- 25 ppm	25 – 50 ppm
No. of Pump Strokes	4 (400 ml)	2 (200 ml)	1 (100 ml)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	1.5 minutes per pump stroke (100 ml)		
Color Change	Greenish yellow → Pale gray		
Detection Limit	0.2 ppm (4 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 :

$C_7H_8O + Ce(NO_3)_6 \xrightarrow{2-} \text{Reaction product. O - Cresol}$

Possible Interferences :

Compound	Concentration (ppm)	Interference	Color Change / Comments
Carbon monoxide	≤500	No	No Effect
Phenol	≤15	No	No Effect
Ammonia	≤300	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.