

**Specification :**

| Measurement Range | Extended | Standard | Extended |
|---------------------------------|--------------------------------------|--------------|--------------|
| | 1.25 – 2.5 ppm | 2.5 - 50 ppm | 50 - 100 ppm |
| No. of Pump Strokes | 2 (200 ml) | 1 (100 ml) | 0.5 (50 ml) |
| Volume Correction Factor (VCF)* | 0.5 | 1.0 | 2.0 |
| Sampling Time | 1.5 minutes per pump stroke (100 ml) | | |
| Color Change | White → Yellow | | |
| Detection Limit | 0.5 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 :

Cl₂ + o - Tolidine → Yellow reaction product

Possible Interferences :

| Compound | Concentration (ppm) | Interference | Color Change / Comments |
|------------------|---------------------|--------------|-------------------------|
| Chlorine dioxide | | + | Yellow |
| Nitrogen dioxide | | + | Yellow |
| Bromine | | + | Yellow |
| Iodine | | + | Yellow |
| Carbon monoxide | ≤250 | 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.