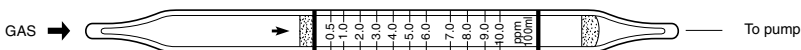


Tube No.
109SB

CHLORINE



1. PERFORMANCE

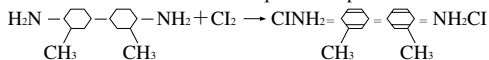
- | | | | |
|--------------------------|-------------------------------------------------------------|---------------|-------------|
| 1) Measuring range | : 0.5-10 ppm | 0.125-2.5 ppm | 0.1-2.0 ppm |
| Number of pump strokes | 1 (100mℓ) | 4 (400mℓ) | 5 (500mℓ) |
| 2) Sampling time | : 1 minute/1 pump stroke | | |
| 3) Detectable limit | : 0.06 ppm (500mℓ) | | |
| 4) Shelf life | : 2 years | | |
| 5) Operating temperature | : 0 ~ 40 °C | | |
| 6) Reading | : Direct reading from the scale calibrated by 1 pump stroke | | |
| 7) Colour change | : White → Pale orange | | |

2. RELATIVE STANDARD DEVIATION

RSD-low : 10 % RSD-mid. : 5 % RSD-high : 5 %

3. CHEMICAL REACTION

o-Toluidine is oxidized and Orthoquinone is produced.



4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Bromine	Pale yellow stain is produced.	1	Higher readings are given.
Chlorine dioxide	∕	1	∕
Nitrogen dioxide	∕	Chlorine conc. × 1/5	∕
Nitrogen trichloride	∕	5	∕

(NOTE)

When the concentration is below 2 ppm, 4 or 5 pump strokes can be used to determine the lower concentration.

Following formula is available for the actual concentration.

Actual concentration = Reading value × 1 / Number of strokes