

1. PERFORMANCE

- 1) Measuring range : 10-100 ppm
Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 2 minutes/1 pump stroke
- 3) Detectable limit : 5 ppm
- 4) Shelf life : 1 year (Necessary to store in refrigerated conditions ; 0 ~ 10 °C)
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : White → Purple

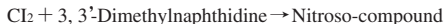
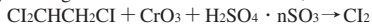
2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chlorine is produced by decomposing with an Oxidizer.

By reading between this Chlorine and 3, 3²-Dimethylnaphthidine, Nitroso-compound is produced.



4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|--------------------------|---|-----|----------------------------|
| Nitrogen oxides | Similar stain is produced. | | Higher readings are given. |
| Halogens | ∕ | | ∕ |
| Halogenated hydrocarbons | ∕ | | ∕ |
| Hexane | The accuracy of readings is not affected. | 100 | Lower readings are given. |

TEMPERATURE CORRECTION TABLE

| Tube Readings (ppm) | Corrected Concentration (ppm) | | | | |
|---------------------|-------------------------------|---------------|---------------|---------------|----------------|
| | 0 °C (32 °F) | 10 °C (50 °F) | 20 °C (68 °F) | 30 °C (86 °F) | 40 °C (104 °F) |
| 100 | 81 | 89 | 100 | 114 | 129 |
| 90 | 71 | 80 | 90 | 105 | 119 |
| 80 | 60 | 71 | 80 | 96 | 109 |
| 70 | 51 | 61 | 70 | 87 | 97 |
| 60 | 43 | 52 | 60 | 76 | 85 |
| 50 | 34 | 43 | 50 | 65 | 72 |
| 40 | 26 | 34 | 40 | 54 | 59 |
| 30 | 19 | 25 | 30 | 42 | 45 |
| 20 | 13 | 15 | 20 | 29 | 31 |
| 10 | 6 | 8 | 10 | 13 | 15 |