

1. PERFORMANCE

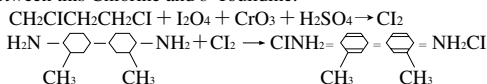
- 1) Measuring range : 10-500 ppm
Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 1 ppm
- 4) Shelf life : 1 year (Necessary to store in a refrigerated place ; 0 ~ 10 °C)
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : White → Orange

2. RELATIVE STANDARD DEVIATION

RSD-low : 15% RSD-mid. : 15% RSD-high : 10%

3. CHEMICAL REACTION

By decomposing with an Oxidizer, chlorine is produced. Yellowish Orthoquinone is produced by reacting between this Chlorine and *o*-Toulidine.

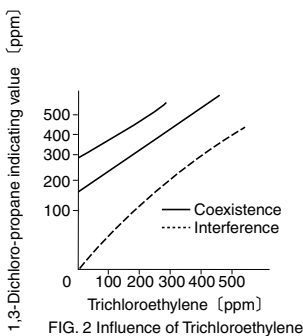
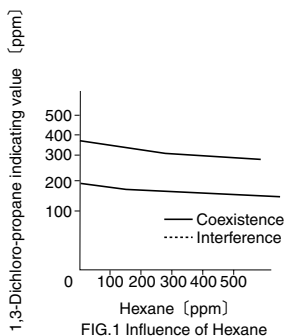


4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | Coexistence |
|------------------------------------|---|---|
| Alcohols | The accuracy of readings is not affected. | The accuracy of readings is not affected. |
| Esters | ∕ | ∕ |
| Aromatic hydrocarbons | ∕ | ∕ |
| Aliphatic hydrocarbons FIG. 1 | ∕ | ∕ |
| Halogenated hydrocarbons FIG. 2 | Similar stain is produced. | Higher readings are given. |



TEMPERATURE CORRECTION TABLE

| Scale Readings (ppm) | True Concentration (ppm) | | | |
|----------------------|--------------------------|---------------|---------------|----------------|
| | 0 °C (32 °F) | 10 °C (50 °F) | 20 °C (68 °F) | 40 °C (104 °F) |
| 500 | — | 685 | 500 | 415 |
| 400 | — | 550 | 400 | 330 |
| 300 | — | 400 | 300 | 240 |
| 200 | 380 | 265 | 200 | 165 |
| 100 | 175 | 130 | 100 | 75 |
| 50 | 90 | 70 | 50 | 40 |
| 30 | 55 | 40 | 30 | 20 |
| 10 | 20 | 14 | 10 | 7 |