



## 1. PERFORMANCE

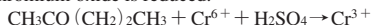
- 1) Measuring range : 20-1,500 ppm
- Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/ 1 pump stroke
- 3) Detectable limit : —
- 4) Shelf life : 2 years
- 5) Operating temperature : 10 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Yellow → Pale blue (The top of discoloured layer is Brown.)

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

Chromium oxide is reduced.



## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

| Substance                          | Interference                        | Coexistence  |
|------------------------------------|-------------------------------------|--|
| Alcohol                            | Similar or Brown stain is produced. | Higher readings are given.   |
| Esters                             | ∕                                   | ∕  |
| Ketones                            | ∕                                   | ∕  |
| Aromatic hydrocarbons              | ∕                                   | ∕  |
| Halogenated hydrocarbons<br>FIG. 2 |                                     | Whole reagent is changed to Brown, but if the maximum end point of Pale blue stain is discernable, the accuracy of readings is not affected. |
| Aliphatic hydrocarbons FIG. 1      |                                     | ∕  |

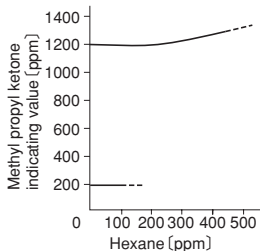


FIG.1 Influence of Hexane

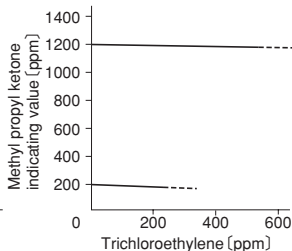


FIG.2 Influence of Trichloroethylene

### TEMPERATURE CORRECTION TABLE

| Tube Readings (ppm) | Corrected Concentration (ppm) |               |               |               |               |               |                |  |
|---------------------|-------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|--|
|                     | 10 °C (50 °F)                 | 15 °C (59 °F) | 20 °C (68 °F) | 25 °C (77 °F) | 30 °C (86 °F) | 35 °C (95 °F) | 40 °C (104 °F) |  |
| 1500                | 2050                          | 1750          | 1500          | 1260          | 1100          | 940           | 820            |  |
| 1000                | 1430                          | 1200          | 1000          | 850           | 720           | 620           | 530            |  |
| 500                 | 750                           | 620           | 500           | 430           | 360           | 320           | 280            |  |
| 200                 | 300                           | 250           | 200           | 170           | 140           | 120           | 110            |  |
| 100                 | 160                           | 120           | 100           | 90            | 70            | 60            | 50             |  |
| 50                  | 80                            | 60            | 50            | 40            | 30            | 30            | 20             |  |
| 20                  | 30                            | 30            | 20            | 20            | 10            | 10            | 10             |  |