

## 1. PERFORMANCE

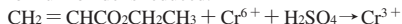
- 1) Measuring range : 5-60 ppm  
Number of pump strokes : 2 (200ml)
- 2) Sampling time : 3 minutes/2 pump strokes
- 3) Detectable limit : 0.5 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Graduations printed on the tube are calibrated by Methyl acrylate at 2 pump strokes and Ethyl acrylate concentration is determined by using a conversion chart.
- 8) Colour change : Yellow → Pale blue

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 15 %    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               |
|---|---|---------------------------|
| Alcohols  | Similar stain is produced.                  | Higher reading are given. |
| Aliphatic hydrocarbons<br>(more than C <sub>3</sub> ) | Whole reagent is discoloured to Dark brown. | ∕                         |
| Halogenated hydrocarbons                              | ∕   | ∕                         |
| Esters  | ∕   | ∕                         |
| Aromatic hydrocarbons                                 | ∕   | ∕                         |

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) |
| 60                  | 80                            | 70            | 60            | 52            | 44             |
| 40                  | 52                            | 46            | 40            | 34            | 28             |
| 20                  | 27                            | 23            | 20            | 17            | 15             |
| 10                  | 14                            | 12            | 10            | 9             | 7              |
| 5                   | 7                             | 6             | 5             | 4             | 3              |

