

1. PERFORMANCE

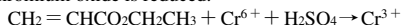
- 1) Measuring range : 5-60 ppm
Number of pump strokes : 2 (200ml)
- 2) Sampling time : 3 minutes/2 pump strokes
- 3) Detectable limit : 0.5 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : 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.

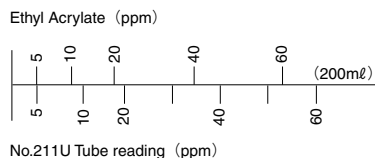
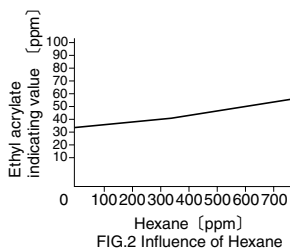
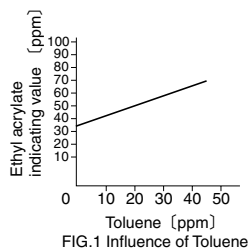


4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | Coexistence |
|---|---|---------------------------|
| Alcohols | Similar stain is produced. | Higher reading are given. |
| Paraffin hydrocarbons (more than C ₃) | Whole reagent is discoloured to Dark brown. | ∕ |
| Halogenated hydrocarbons | ∕ | ∕ |
| Esters | ∕ | ∕ |
| Aromatic hydrocarbons FIG.1,2 | ∕ | ∕ |



TEMPERATURE CORRECTION TABLE

| Scale Readings (ppm) | True 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 |