

## 1. PERFORMANCE

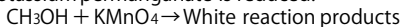
- 1) Measuring range : 20-300ppm
- Number of pump strokes : 1 (100mL)
- 2) Sampling time : 3 minutes / 1 pump stroke
- 3) Detectable limit : 4 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 10~35°C
- 6) Temperature compensation : Necessary ("See COEFFICIENT TABLE FOR TEMPERATURE CORRECTION")
- 7) Reading : The tube scales are calibrated based on Ethanol at 1 pump stroke and the tube has the same sensitivity for Methanol
- 8) Colour change : Pink → White or pale pink

## 2. RELATIVE STANDARD DEVIATION

RSD-low : — RSD-mid. : — RSD-high : —

## 3. CHEMICAL REACTION

Potassium permanganate is reduced.



## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

| Substance         | Interference                              | Coexistence                                         |
|-------------------|-------------------------------------------|-----------------------------------------------------|
| Alcohols          | Similar stain is produced.                | Higher readings are given.                          |
| 1,3-Butadiene     | "                                         | "                                                   |
| Dimethyl sulphide | "                                         | "                                                   |
| Hydrogen sulphide | "                                         | "                                                   |
| Isobutylene       | "                                         | "                                                   |
| Acetone           | Whole reagent is changed to White.        | "                                                   |
| n-Hexane          | "                                         | "                                                   |
| Ammonia           | The accuracy of readings is not affected. | Higher readings with indiscernable stain are given. |

## COEFFICIENT TABLE FOR TEMPERATURE CORRECTION

| Temperature (°C) | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
|------------------|------|------|------|------|------|------|------|------|------|------|
| 10               | 1.10 | 1.09 | 1.08 | 1.07 | 1.06 | 1.05 | 1.04 | 1.03 | 1.02 | 1.01 |
| 20               | 1.00 | 1.00 | 0.99 | 0.99 | 0.98 | 0.98 | 0.97 | 0.97 | 0.96 | 0.96 |
| 30               | 0.95 | 0.95 | 0.94 | 0.94 | 0.93 | 0.93 | -    | -    | -    | -    |

Actual concentration = Reading value × Coefficient for temperature correction