



1. PERFORMANCE

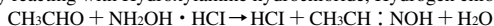
- 1) Measuring range : 0.004-1.0 %
Number of pump stroke : 1 (100ml)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 5 ppm
- 4) Shelf life : 1 year (Necessary to store in a refrigerated place ; 0 ~ 10 °C)
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Concentration chart method
- 8) Colour change : Yellow → Pink

2. RELATIVE STANDARD DEVIATION

RSD-low : 10 % RSD-mid. : 5 % RSD-high : 5 %

3. CHEMICAL REACTION

By reacting with Hydroxylamine hydrochloride, Hydrogen chloride is liberated and PH indicator discoloured.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|------------------------|---------------------------|------|----------------------------|
| Acetone FIG.1 | Similar stain is produced | 1400 | Higher readings are given. |
| Acrolein FIG.2 | ∕ | 35 | ∕ |
| Methyl ethyl ketone | ∕ | 900 | ∕ |
| Methyl isobutyl ketone | ∕ | 2900 | ∕ |
| Sulphur dioxide | ∕ | 10 | ∕ |

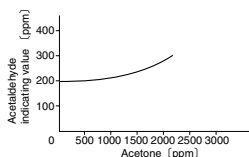


FIG.1 Influence of Acetone

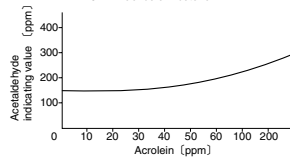
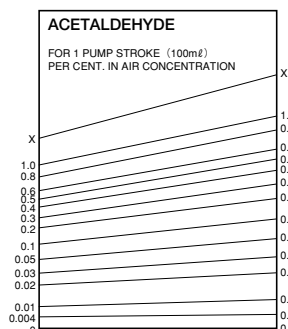


FIG.2 Influence of Acrolein



TEMPERATURE CORRECTION TABLE

| Chart Readings (%) | True Concentration (%) | | | | |
|--------------------|------------------------|---------------|---------------|---------------|----------------|
| | 0 °C (32 °F) | 10 °C (50 °F) | 20 °C (68 °F) | 30 °C (86 °F) | 40 °C (104 °F) |
| 1.0 | | 1.6 | 1.0 | 0.50 | 0.30 |
| 0.8 | 1.9 | 1.3 | 0.8 | 0.40 | 0.20 |
| 0.6 | 1.6 | 1.05 | 0.6 | 0.30 | 0.16 |
| 0.5 | 1.45 | 0.9 | 0.5 | 0.25 | 0.14 |
| 0.4 | 1.3 | 0.8 | 0.4 | 0.20 | 0.13 |
| 0.3 | 1.2 | 0.65 | 0.3 | 0.15 | 0.11 |
| 0.2 | 0.95 | 0.45 | 0.2 | 0.10 | 0.08 |
| 0.1 | 0.6 | 0.2 | 0.1 | 0.07 | 0.05 |
| 0.05 | 0.25 | 0.09 | 0.05 | 0.04 | 0.03 |
| 0.03 | 0.08 | 0.05 | 0.03 | 0.025 | 0.01 |
| 0.02 | 0.03 | 0.025 | 0.02 | 0.015 | 0.007 |
| 0.01 | 0.02 | 0.015 | 0.01 | 0.007 | 0.004 |