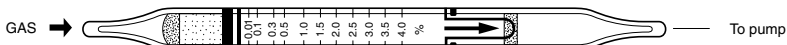


Tube No.
102SC

ACETONE



1. PERFORMANCE

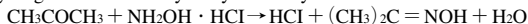
- 1) Measuring range : 0.01-4.0 %
Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 10 ppm
- 4) Shelf life : 1 year (Necessary to store in a refrigerated place ; 0 ~ 10℃)
- 5) Operating temperature : 0 ~ 40℃
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Yellow → Pink

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Hydrogen chloride of Hydroxylamine hydrochloride is liberated and acidified, and PH indicator is discoloured.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|------------------------|----------------------------|-----|----------------------------|
| Acrolein | Similar stain is produced. | 20 | Higher readings are given. |
| Acetaldehyde | ∕ | 30 | ∕ |
| Methyl ethyl ketone | ∕ | 150 | ∕ |
| Methyl isobutyl ketone | ∕ | 400 | ∕ |

TEMPERATURE CORRECTION TABLE

| Scale Readings (%) | True Concentration (%) | | | | |
|--------------------|------------------------|-------------|-------------|-------------|--------------|
| | 0℃ (32° F) | 10℃ (50° F) | 20℃ (68° F) | 30℃ (86° F) | 40℃ (104° F) |
| 4.0 | — | — | 4.0 | 3.2 | 2.7 |
| 3.5 | — | — | 3.5 | 2.8 | 2.3 |
| 3.0 | — | 4.1 | 3.0 | 2.4 | 2.0 |
| 2.5 | 4.8 | 3.7 | 2.5 | 2.0 | 1.7 |
| 2.0 | 3.9 | 2.8 | 2.0 | 1.6 | 1.4 |
| 1.5 | 2.9 | 2.0 | 1.5 | 1.2 | 1.0 |
| 1.0 | 1.8 | 1.3 | 1.0 | 0.8 | 0.7 |
| 0.7 | 1.1 | 0.9 | 0.7 | 0.6 | 0.5 |
| 0.5 | 0.8 | 0.7 | 0.5 | 0.4 | 0.3 |
| 0.3 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 |
| 0.1 | 0.16 | 0.12 | 0.1 | 0.08 | 0.05 |