

1. PERFORMANCE

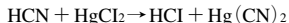
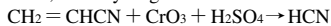
- | | |
|-----------------------------|---|
| 1) Measuring range | : 1-120 ppm |
| Number of pump strokes | 2 (200mℓ) |
| 2) Sampling time | : 3 minutes/2 pump strokes |
| 3) Detectable limit | : 0.5 ppm (200mℓ) |
| 4) Shelf life | : 1 year (Necessary to store in refrigerated place : 0 ~ 10 °C) |
| 5) Operating temperature | : 0 ~ 40 °C |
| 6) Temperature compensation | : Necessary (See "TEMPERATURE CORRECTION TABLE") |
| 7) Reading | : Direct reading from the scale calibrated by 2 pump strokes |
| 8) Colour change | : Yellow → Pink |

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By decomposing with an Oxidizer, Hydrogen cyanide is produced. This Hydrogen cyanide reacts with Mercuric chloride, then Hydrogen chloride is liberated and PH indicator is discoloured.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|---------------------|----------------------------|---------------|---|
| Hydrogen cyanide | Similar stain is produced. | 2 | Higher readings are given. |
| Methyl ethyl ketone | | 600 | Lower readings are given. |
| Styrene | | less than 250 | The accuracy of readings is not affected. |
| Butadiene | | 200 | Lower readings are given. |

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) |
| 120 | 165 | 140 | 120 | 104 | 90 |
| 100 | 142 | 117 | 100 | 87 | 77 |
| 90 | 127 | 105 | 90 | 79 | 70 |
| 80 | 112 | 93 | 80 | 70 | 62 |
| 70 | 98 | 81 | 70 | 62 | 55 |
| 60 | 84 | 70 | 60 | 53 | 48 |
| 50 | 69 | 58 | 50 | 45 | 41 |
| 40 | 55 | 46 | 40 | 37 | 34 |
| 30 | 41 | 34 | 30 | 28 | 27 |
| 20 | 26 | 22 | 20 | 20 | 20 |
| 10 | 12 | 10 | 10 | 10 | 10 |