

1. PERFORMANCE

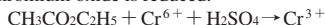
- 1) Measuring range : 0.1-5.0 %
Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 0.001 % (10 ppm)
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Orange → Brownish green

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|--|----------------------------|-------|--|
| Acetylene | | 3 % | Whole reagent is discoloured to Brown. |
| Propane | | 0.2 % | ∕ |
| Other organic or vapours except Halogenated hydrocarbons | Similar stain is produced. | 50 | Higher reading are given. |

TEMPERATURE CORRECTION TABLE

| Tube Readings (%) | Corrected Concentration (%) | | | | |
|-------------------|-----------------------------|---------------|---------------|---------------|----------------|
| | 0 °C (32 °F) | 10 °C (50 °F) | 20 °C (68 °F) | 30 °C (86 °F) | 40 °C (104 °F) |
| 5.0 | — | — | 5.0 | 4.0 | 3.0 |
| 4.5 | — | — | 4.5 | 3.6 | 2.7 |
| 4.0 | — | 5.8 | 4.0 | 3.2 | 2.4 |
| 3.5 | — | 5.0 | 3.5 | 2.8 | 2.1 |
| 3.0 | — | 4.2 | 3.0 | 2.3 | 1.7 |
| 2.5 | — | 3.5 | 2.5 | 1.9 | 1.4 |
| 2.0 | — | 2.6 | 2.0 | 1.5 | 1.1 |
| 1.5 | 2.6 | 1.9 | 1.5 | 1.1 | 0.7 |
| 1.0 | 1.5 | 1.2 | 1.0 | 0.7 | 0.4 |
| 0.5 | 0.6 | 0.6 | 0.5 | 0.3 | 0.2 |
| 0.3 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 |
| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |