

1. PERFORMANCE

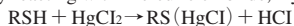
- | | | |
|--------------------------|---|-----------|
| 1) Measuring range | : 1-10 ppm | 0.5-5 ppm |
| Number of pump strokes | 1/2 (50mℓ) | 1 (100mℓ) |
| 2) Sampling time | : 1 minute/1 pump stroke | |
| 3) Detectable limit | : 0.2 ppm (100mℓ) | |
| 4) Shelf life | : 2 years | |
| 5) Operating temperature | : 0 ~ 40 °C | |
| 6) Reading | : The tube scale is calibrated based on Methyl mercaptan at 1 pump stroke and the tube has the same sensitivity for n-Propyl mercaptan. | |
| 7) Colour change | : Pale yellow → Pink | |

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Mercuric chloride, Hydrogen chloride is produced and PH indicator is discoloured.



4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | Coexistence |
|-------------------|----------------------------------|---|
| Arsine | Similar stain is produced. | Higher readings are given. |
| Hydrogen selenide | ∕ | ∕ |
| Phosphine | ∕ | ∕ |
| Hydrogen sulphide | ∕ | ∕ |
| Hydrogen cyanide | Whole reagent is changed to Red. | ∕ |
| Sulphur dioxide | | Whole reagent is changed to Pale red, but Pink stain indicates Mercaptans conc. |

(NOTE)

In case of 1/2 pump strokes, following formula is available for the actual concentration.

Actual concentration = 2 × Reading value