



## 1. PERFORMANCE

- |                          |  |              |              |
|--------------------------|--|--------------|--------------|
| 1) Measuring range       | : 1.1-11.0 ppm   | 0.55-5.5 ppm | 0.11-1.1 ppm |
| Number of pump strokes   | : 1/2 (50mL)   | 1 (100mL)    | 5 (500mL)    |
| 2) Sampling time         | : 1 minute / 1 pump stroke   |              |              |
| 3) Detectable limit      | : 0.02 ppm (500mL)   |              |              |
| 4) Shelf life            | : 2 years  |              |              |
| 5) Operating temperature | : 0~40°C (Temperature correction is necessary for 5 pump strokes)  |              |              |
| 6) Operating humidity    | : 0~90%R.H. (10~90%R.H. for 5 pump strokes)  |              |              |
| 7) Reading               | : The tube scales are calibrated based on Methyl mercaptan at 1 pump stroke and tert-Butyl mercaptan concentration is determined by multiplying the tube reading by 1.10 |              |              |
| 8) Colour change         | : Pale yellow → Pink   |              |              |

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By reacting with silver compound, Acidic product 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	//	//

### (NOTE)

In case of 1/2 and 5 pump strokes, following formula is available for the actual concentration.

1/2 pump strokes : Actual concentration = Reading value × 2 × 1.10

5 pump strokes : Actual concentration = Temperature corrected value × 0.2 × 1.10

TABLE OF COEFFICIENT FOR TEMPERATURE CORRECTION (500mL)

Temperature(°C)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
Coefficient	0.8	0.9	1	1.1	1.2