

1. PERFORMANCE

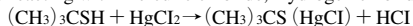
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|--------------------------|---|-----------|
| 1) Measuring range | : 1-10 ppm | 0.5-5 ppm |
| Number of pump strokes | 1/2 (50ml) | 1 (100ml) |
| 2) Sampling time | : 1 minute/1 pump stroke | |
| 3) Detectable limit | : 0.2 ppm (100ml) | |
| 4) Shelf life | : 2 years | |
| 5) Operating temperature | : 0 ~ 40 °C | |
| 6) Reading | : Direct reading from the scale calibrated by Methyl mercaptan at 1 pump stroke | |
| 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

STANDARD GAS CYLINDER 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, 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

This tube scale is calibrated based on Methyl mercaptan and the same scale is available for tert-Butyl mercaptan.