

1. PERFORMANCE

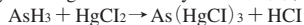
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|--------------------------|--|--------------|
| 1) Measuring range | : 0.1-2.0 ppm | 0.05-0.5 ppm |
| Number of pump strokes | 1 (100mℓ) | 2 (200mℓ) |
| 2) Sampling time | : 1 minute/1 pump stroke | |
| 3) Detectable limit | : 0.02 ppm (200mℓ) | |
| 4) Shelf life | : 2 years | |
| 5) Operating temperature | : 0 ~ 40 °C | |
| 6) Reading | : The tube scale is calibrated based on Phosphine at 1 pump stroke and the tube has the same sensitivity for Arsine. | |
| 7) Colour change | : Pale yellow → Pink | |

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Mercury chloride (II), 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
Hydrogen selenide	Similar stain is produced.	Higher readings are given.
Mercaptans	∕	∕
Hydrogen sulphide	∕	∕
Hydrogen cyanide	Whole reagent is changed to Red.	∕
Sulphur dioxide	∕	Whole reagent is changed to Pale red, but Purplish red stain indicates Arsine concentration.

(NOTE)

When the concentration is below 0.5 ppm, 2 pump strokes can be used to determine the lower concentration with the following formula ;

Actual concentration = $1/2 \times$ Reading value