



1. PERFORMANCE

- 1) Measuring range : 1-50 ppm
Number of pump strokes : 1(100mL)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : —
- 4) Shelf life : 3 years
- 5) Operating temperature : 15 ~ 25°C
- 6) Reading : The printed scales are calibrated by Acetic acid at 1 pump stroke.
Methacrylic acid concentration is determined by using a conversion chart at 1 pump stroke
- 7) Colour change : Pale pink → Yellow

2. CHEMICAL REACTION

By reacting with alkali, PH indicator is discoloured.

3. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

4. INTERFERENCE AND CROSS SENSITIVITY

| Substance | ppm | Interference | ppm | Coexistence |
|-------------------|-----|----------------------------|--|---|
| Sulphur dioxide | | Similar stain is produced. | $\text{HCO}_2\text{H conc.} \times 1/20$ | Higher readings are given. |
| Nitrogen dioxide | 300 | " | 10 | The top of discoloured layer becomes unclear. |
| Hydrogen chloride | | Pink stain is produced. | $\text{HCO}_2\text{H conc.} \times 2$ | Higher readings are given. |
| Chlorine | | Yellow stain is produced. | 5 | " |
| Acetic acid | | Similar stain is produced. | | " |