1. PERFORMANCE

1) Measuring range : 1-14 ppm
   Number of pump strokes : 1 (100mL)
2) Sampling time : 1 minute/1 pump stroke
3) Detectable limit : —
4) Shelf life : 3 years
5) Operating temperature : 15 ~ 25°C
6) Reading : Graduations printed on the tube are calibrated by Ammonia at 1 pump stroke and Di-n-Propyl amine concentration is determined by using a conversion chart at 1 pump stroke.
7) Colour change : Pale purple → Pale Yellow

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Phosphoric acid, PH indicator is discoloured.

\[
\text{CH}_3 (\text{CH}_2)_2 \text{NH} + \text{H}_3\text{PO}_4 \rightarrow (\text{R}_2\text{NH})_3\text{PO}_4
\]

4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

<table>
<thead>
<tr>
<th>Substance</th>
<th>Interference</th>
<th>Coexistence</th>
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<tbody>
<tr>
<td>Amines</td>
<td>Similar stain is produced.</td>
<td>Higher readings are given.</td>
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Di-n-Propyl amine concentration (ppm)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
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(100mL)

No. 105SD tube reading (ppm)

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