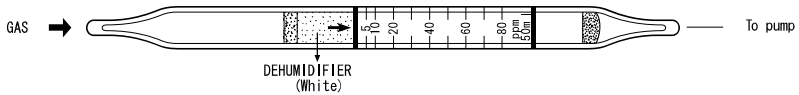
Tube No.
165SB

# ETHYL MERCAPTAN




## 1. PERFORMANCE

1) Measuring range : 5-80 ppm 2.5-40 ppm
Number of pump strokes: 1/2(50mL) 1(100mL)
2) Sampling time : 30 seconds/ 1/2 pump strokes
3) Detectable limit : 1 ppm(100mL)
4) Shelf life : 2 years
5) Operating temperature : 0～40℃
6) Reading : Direct reading from the scale calibrated by 1/2 pump strokes
7) Colour change : Yellow→Pink

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 15% RSD-mid. : 10% RSD-high : 5%

## 3. CHEMICAL REACTION

By reacting with Mercuric chloride, Hydrogen chloride is produced and PH indicator is discoloured.

$C_2H_5SH + HgCl_2 \rightarrow C_2H_5S(HgCl) + HCl$

## 4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|---|---|---|---|
| Hydrogen sulphide | Similar stain is produced. | | Higher readings are given. |
| Phosphine | 〃 | | 〃 |
| Other mercaptans | 〃 | | 〃 |
| Arsine | 〃 | | 〃 |
| Hydrogen selenide | 〃 | | 〃 |
| Hydrogen cyanide | 〃 | | 〃 |
| Nitrogen dioxide | The accuracy of readings is not affected. | | Lower readings are given. |
| Ammonia | 〃 | | 〃 |
| Sulphur dioxide | 〃 | | |

(NOTE )

In case of a 1 pump stroke, following formula is available for the actual concentration
Acutual concentration = 0.5 x Reading value