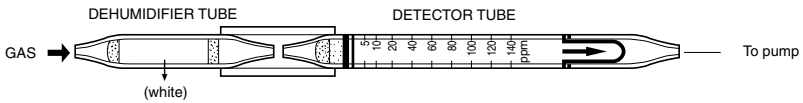
Tube No.
**178SB**

# CHLOROBENZENE




## 1. PERFORMANCE

| | | |
|---|---|---|
| 1) Measuring range | : 5-140 ppm | 1-5 ppm |
| Number of pump strokes | 1(100mℓ) | 5(500mℓ) |
| 2) Sampling time | : 2 minutes/1 pump stroke | |
| 3) Detectable limit | : 0.5 ppm(500mℓ) | |
| 4) Shelf life | : 1 year | |
| 5) Operating temperature | : 0～40℃ | |
| 6) Reading | : Direct reading from the scale calibrated by 1 pump stroke | |
| 7) Colour change | : White→Pale brown | |

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 20% RSD-mid. : 10% RSD-high : 10%

## 3. CHEMICAL REACTION

Iodine pent-oxide is reduced.

$C_6H_5Cl + I_2O_5 + H_2SO_4 \rightarrow I_2$

## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | | Interference | ppm | Coexistence |
|---|---|---|---|---|
| Ethyl benzene | | Similar stain is produced. | | Higher readings are given. |
| Toluene | FIG.1 | 〃 | | 〃 |
| Xylene | FIG.2 | 〃 | | 〃 |
| Benzene | | 〃 | | 〃 |
| Carbon monoxide | FIG.3 | Whole reagent is changed to the similar stain's colour. | 50 | 〃 |
| Hexane | | 〃 | 100 | 〃 |

(NOTE)

When the concentration is below 5 ppm, 5 pump strokes can be used to determine the lower concentration.
Following formula is available for the actual concentration.
Actual concentration = 1/5 × Reading value

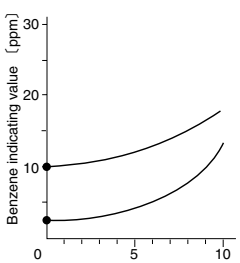


FIG.1 Influence of Toluene

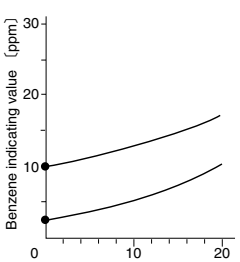


FIG.2 Influence of Xylene

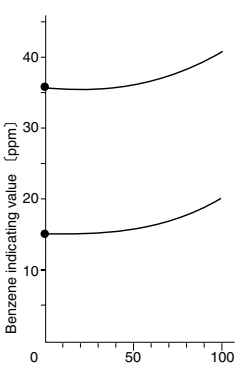


FIG.3 Influence of Carbon monoxide