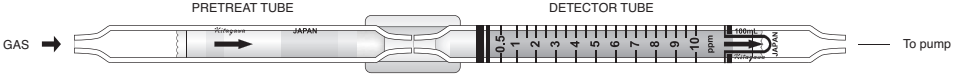
Tube No.
**249S**

# 1,3-DICHLOROPROPENE




## 1. PERFORMANCE

1) Measuring range : 0.5-10 ppm
   Number of pump strokes 1(100mℓ)
2) Sampling time : 1.5 minutes/1 pump stroke
3) Detectable limit : 0.1 ppm
4) Shelf life : 3 years
5) Operating temperature : 0 ~ 40℃
6) Temperature compensation : Necessary(See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 1 pump stroke
8) Colour change : Yellowish green→Pink

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By decomposing with an Oxidizer, Hydrogen chloride is produced and PH indicator is discoloured.

$C_3H_4CI_2 + CrO_3 + H_2SO_4 \rightarrow HCI$

## 4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|---|---|---|---|
| Chloropicrin | The accuracy of readings is not affected. | 1800 | The accuracy of readings is not affected. |
| Methyl isothiocyanate | 〃 | 600 | 〃 |

TEMPERATURE CORRECTION TABLE

Temperature ; To correct for temperature, multiply the tube reading by the following factors.

| Temperature (℃) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| Correction Factor | 2.00 | 1.91 | 1.83 | 1.75 | 1.66 | 1.57 | 1.49 | 1.42 | 1.36 | 1.30 |
| Temperature (℃) | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Correction Factor | 1.25 | 1.21 | 1.18 | 1.15 | 1.12 | 1.10 | 1.08 | 1.06 | 1.04 | 1.02 |
| Temperature (℃) | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| Correction Factor | 1.00 | 0.98 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 |
| Temperature (℃) | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| Correction Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Temperature (℃) | 40 | | | | | | | | | |
| Correction Factor | 0.88 | | | | | | | | | |