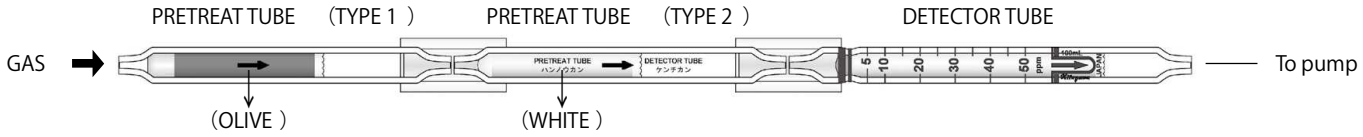
Tube No.
230SA

1,2-DICHLOROETHANE



1. PERFORMANCE

1) Measuring range : 11-110ppm 5-50ppm 2.5-25ppm 1-10ppm
Number of pump strokes 1/2(50mL) 1(100mL) 2(200mL) 5(500mL)
2) Sampling time : 2 minutes / 1 pump stroke
3) Detectable limit : 0.2 ppm
4) Shelf life : 1 year (Necessary to store in refrigerated conditions; 0～10℃)
5) Operating temperature : 0～40℃
6) Reading : Direct reading from the scale calibrated by 1 pump stroke
7) Colour change : White → Purple

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By decomposing with an oxidizer, Chlorine is produced. Chlorine reacts with 3,3′-Dimethylnaphthidine and Nitroso-compound is produced.

$ClCH_2CH_2Cl + CrO_3 + H_2SO_4 \cdot nSO_3 \rightarrow Cl_2$

Cl_2 + 3,3′-Dimethylnaphthidine → Nitroso-compound

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Nitrogen oxides	Similar stain is produced.	—	Higher readings are given.
Halogens	〃	—	〃
Halogenated hydrocarbons	〃	—	〃
Hexane	The accuracy of readings is not affected.	100	Lower readings are given.

(NOTE)

In case of 1/2, 2 and 5 pump strokes, the following formula is available for the actual concentration.

1/2 pump strokes : Actual concentration = Reading value × 2.2
2 pump strokes : Actual concentration = Reading value × 0.5
5 pump strokes : Actual concentration = Reading value × 0.2