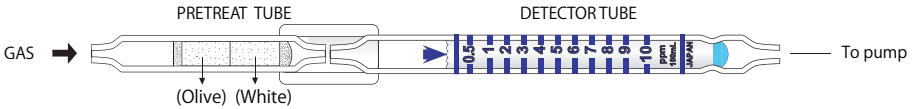
Tube No.
157SD

METHYL BROMIDE



1. PERFORMANCE

1) Measuring range : 10-20 ppm 0.5-10 ppm 0.1-0.5 ppm
   Number of pump strokes 1/2(50mL) 1(100mL) 3(300mL)
2) Sampling time : 2.5 minutes/1 pump stroke
3) Detectable limit : 0.03 ppm (300mL)
4) Shelf life : 1 year
5) Operating temperature : 10 ～ 40℃
6) Reading : Direct reading from the scale calibrated by 1 pump stroke
7) Colour change : White → Purple

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By decomposing with an Oxidizer, Bromine is produced.
Bromine reacts with 3,3-Dimethylnaphthidine and Bromine compound is produced.

$$CH_3Br + I_2O_5 + H_2S_2O_7 \rightarrow Br_2$$

4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference
Carbon monoxide	The accuracy of readings is not affected.

(NOTE)
1/2 pump srtokes can be used with the following formula to measure the range of 10-20 ppm;
Actual concentration = 2.0 x Tube reading

3 pump srtokes can be used with the following formula to measure the range of 0.1-0.5 ppm;
Actual concentration = 0.2 x Tube reading