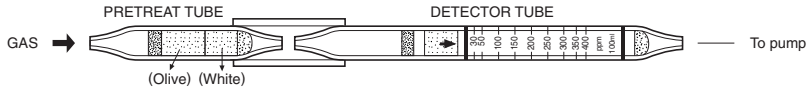
Tube No.
160S

METHYL CHLOROFORM (1,1,1-TRICHLOROETHANE)



1. PERFORMANCE

1) Measuring range : 30-400 ppm 15-30 ppm
Number of pump strokes 1(100mℓ) 2(200mℓ)
2) Sampling time : 1.5 minutes/1 pump stroke
3) Detectable limit : 10 ppm(200mℓ)
4) Shelf life : 3 years(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→Yellow orange

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chlorine is produced by an Oxidizer. By reacting between this Chlorine and *o*-Toluidine, Orthoquinone is produced.

$CH_3CCI_3 + Cr_3O_3 + H_2SO_4 \cdot nSO_3 \rightarrow CI_2$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Halogens	Similar stain is produced.	Higher readings are given.
Halogenated hydrocarbons FIG.1,2	〃	〃

(NOTE)

When the concentration is below 30 ppm, 2 pump strokes can be used to detremine the lower concentration. Following formula is available for the actual concentration.

Actual concentration = 1/2 × Reading value

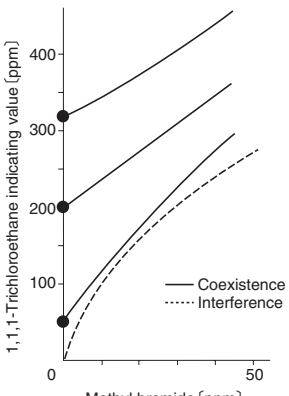


FIG.1 Influence of Methyl bromide

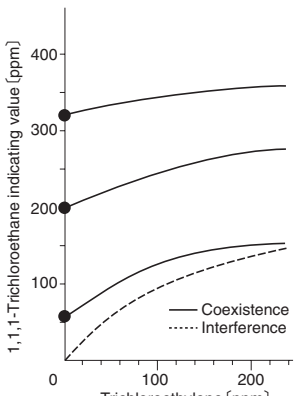


FIG.2 Influence of Trichloroethylene