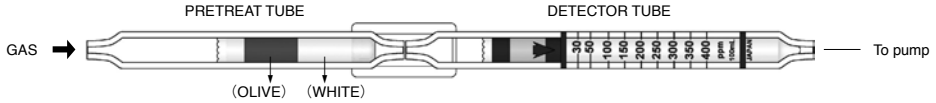
Tube No.
160S

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) Operating humidity	: 0～90%R.H. at 30℃	
7) Reading	: Direct reading from the scale calibrated by 1 pump stroke	
8) Colour change	: White→Yellow orange	

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 *o*-Tolidine and yellow Orthoquinone is produced.

$CH_3CCl_3 + Cr_3O_3 + H_2SO_4 \cdot nSO_3 \rightarrow Cl_2$

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

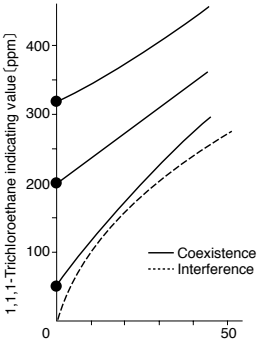


FIG.1 Influence of Methyl bromide

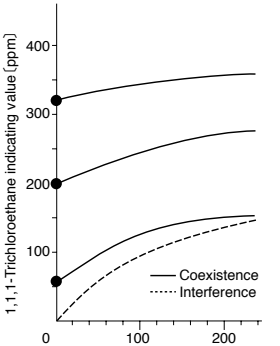


FIG.2 Influence of Trichloroethylene