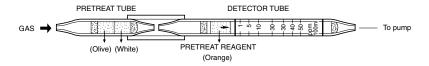
ETHYLENE DIBROMIDE



1. PERFORMANCE

1) Measuring range 1-50 ppmNumber of pump strokes $1(100 \text{m} \ell)$

2) Sampling time : 1.5 minutes/1 pump stroke

3) Detectable limit : 0.2 ppm

4) Shelf life : 1 year (Necessary to store in a refrigerated place; $0 \sim 10^{\circ}$ C)

5) Operating temperature : $0 \sim 40 \,^{\circ}\text{C}$

6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 1 pump stroke

8) Colour change : White→Yellow

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Bromine is produced by an Oxidizer. By reacting between this Bromine and *o*-Toluidine, Orthoquinone is produced BrCH₂CH₂Br + I₂O₄ + CrO₃ + H₂SO₄ → Br₂

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence	
Halogens	Similar stain is produced.		Higher readings are given.	
Halogenated hydrocarbons	"		"	
Hexane FIG.1	The accuracy of readings is not affected.	200	Lower readings are given.	

TEMPERATURE CORRECTION TABLE

Scale	True Concentration (ppm)						
Readings (ppm)	10°C (50° F)	15 °C (59° F)	20°C (68° F)	25℃ (77°F)	30°C (80°F)	35℃ (95°F)	
50	_	-	82	50	42	39	
40	_	80	58	40	35	33	
30	98	56	40	30	27	26	
20	50	40	30	20	18	18	
10	16	14	12	10	10	10	
5	7	7	6	5	5	5	
- 1	1	1	1	- 1	- 1	- 1	

