

1. PERFORMANCE

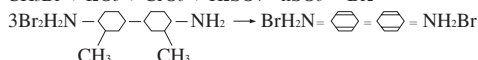
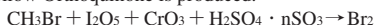
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|-----------------------------|---|-----------|------------|
| 1) Measuring range | : 2-80 ppm | 1-25 ppm | 0.4-10 ppm |
| Number of pump strokes | 1 (100mℓ) | 2 (200mℓ) | 4 (400mℓ) |
| 2) Sampling time | : 1.5 minutes/1 pump stroke | | |
| 3) Detectable limit | : 0.2 ppm (400mℓ) | | |
| 4) Shelf life | : 3 years (Necessary to store in refrigerated conditions ; 0 ~ 10 °C) | | |
| 5) Operating temperature | : 0 ~ 40 °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 : 15 % RSD-mid. : 10 % RSD-high : 10 %

3. CHEMICAL REACTION

By decomposing with an Oxidizer, Bromine is produced. Bromine reacts with *o*-Toluidine and yellow Orthoquinone is produced.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Halogen	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.

(NOTE)

2 pump strokes can be used with the following formula to measure the range of 1-25 ppm;

Actual concentration = 1/2 × Temperature corrected value

4 pump strokes can be used with the following formula to measure the range of 0.4-10 ppm;

Actual concentration = 1/5 × Temperature corrected value

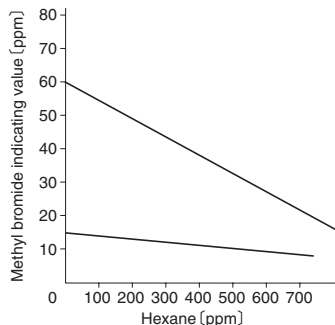


FIG.1 Influence of Hexane

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)					
	0 °C (32 °F)	5 °C (41 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
80	—	140	98	80	75	73
60	145	76	67	60	57	56
40	44	43	42	40	40	40
30	30	30	30	30	30	30