

Tube No.
176SC

METHYL IODIDE



1. PERFORMANCE

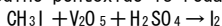
- 1) Measuring range : 0.4-8 ppm 1-20 ppm 2.5-50 ppm
Number of pump strokes : 2 (200mL) 1 (100mL) 1/2 (50mL)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 0.2 ppm (200mL)
- 4) Shelf life : 1 year
- 5) Operating temperature : 0 ~ 40°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : White → Gray

2. RELATIVE STANDARD DEVIATION

RSD-low : 15% RSD-mid. : 10% RSD-high : 5%

3. CHEMICAL REACTION

Iodine pentoxide is reduced.



4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Carbon dioxide	The accuracy of readings is not affected.	50%	The accuracy of readings is not affected.
Methyl bromide	"	1	"
Acetone	"	200	"
Hexane	"	200	"
Hydrogen sulphide		0.5	Higher readings are given.
1,3-Dichloropropene		0.1	"
Toluene			Lower readings are given.

(NOTE)

- 1) In case of 1/2 pump strokes, following formula is available for the actual concentration.
Actual concentration = 2.5 × Temperature corrected value
- 2) In case of 2 pump strokes, following formula is available for the actual concentration.
Actual concentration = 0.4 × Temperature corrected value

TEMPERATURE CORRECTION TABLE

Temperature : To correct for temperature, multiply the tube reading by the following factors.

Pump stroke	Temperature(°C)	0	5	10	15	20	25	30	35	40
1	Coefficient	1.55	1.32	1.15	1.00					
		2.20	1.80	1.50	1.20	1.00				
2		1.30	1.22	1.15	1.00		1.15	1.22	1.30	