



## 1. PERFORMANCE

- |                             |   |           |
|-----------------------------|---|-----------|
| 1) Measuring range          | : 1-80 ppm  | 0.2-1 ppm |
| Number of pump strokes      | 1 (100mℓ)   | 5 (500mℓ) |
| 2) Sampling time            | : 2 minutes/1 pump stroke                                   |           |
| 3) Detectable limit         | : 0.1 ppm (500mℓ)   |           |
| 4) Shelf life               | : 2 years   |           |
| 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 → Brown   |           |

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 10 %    RSD-mid. : 5 %    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
Toluene	Similar stain is produced.	1000	Higher readings are given.
Xylene	∕	∕	∕
Ethyl benzene	∕	∕	∕
Carbon monoxide		2	Whole reagent is changed to Pale brown, indiscernible stain is produced and higher readings are given.
Hexane		∕	Very light brown is produced.

### TEMPERATURE CORRECTION TABLE

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

Temperature (°C)	0	1	2	3	4	5	6	7	8	9
Correction Factor	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Temperature (°C)	10	11	12	13	14	15	16	17	18	19
Correction Factor	0.66	0.70	0.73	0.76	0.79	0.83	0.86	0.89	0.93	0.96
Temperature (°C)	20	21	22	23	24	25	26	27	28	29
Correction Factor	1.00	1.04	1.08	1.11	1.15	1.19	1.23	1.27	1.31	1.35
Temperature (°C)	30	31	32	33	34	35	36	37	38	39
Correction Factor	1.40	1.44	1.48	1.53	1.57	1.62	1.66	1.71	1.71	1.71
Temperature (°C)	40									
Correction Factor	1.71									