



## 1. PERFORMANCE

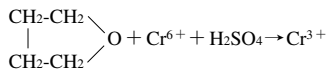
- |                             |   |           |
|-----------------------------|---|-----------|
| 1) Measuring range          | : 2.0-5.0 %   | 0.2-3.0 % |
| Number of pump strokes      | 1/2 (50mℓ)  | 1 (100mℓ) |
| 2) Sampling time            | : 1.5 minutes/1 pump stroke   |           |
| 3) Detectable limit         | : 20 ppm  |           |
| 4) Shelf life               | : 3 years   |           |
| 5) Operating temperature    | : 0 ~ 40 °C   |           |
| 6) Temperature compensation | : Necessary (See "TEMPERATURE CORRECTION TABLE")  |           |
| 7) Reading                  | : Graduations printed on the tube are calibrated by Acetone at 1 pump stroke and Tetrahydrofuran is determined by using a conversion chart. |           |
| 8) Colour change            | : Orange → Dark brown   |           |

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

Potassium dichromate is reduced.



## 4. CALIBRATION OF THE TUBE

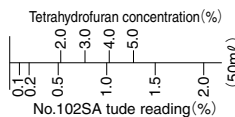
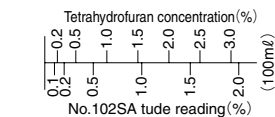
GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Alcohols	Similar stain is produced.		Higher readings are given.
Aromatic hydrocarbons FIG.1	∕		∕
Ketones	∕		∕
Esters FIG.2	∕		∕
Halogenated hydrocarbons	Whole reagent is changed to Pale brown.	0.5 %	∕

(NOTE)

In case of 1/2 pump stroke, following conversion scale is available for actual concentration.



TEMPERATURE CORRECTION TABLE

Scale Readings (%)	True Concentration (%)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
3.0	—	3.2	3.0	2.8	2.7
2.5	3.0	2.7	2.5	2.4	2.2
2.0	2.4	2.1	2.0	1.9	1.8
1.5	1.8	1.6	1.5	1.4	1.3
1.0	1.1	1.1	1.0	1.0	0.9
0.5	0.6	0.5	0.5	0.5	0.5

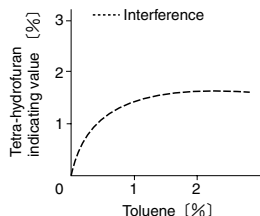


FIG.1 Influence of Toluene

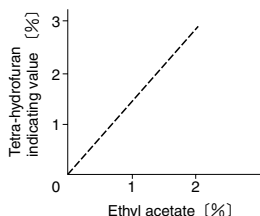


FIG.2 Influence of Ethyl acetate