

## 1. PERFORMANCE

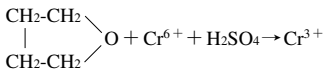
- 1) Measuring range : 2.0-5.0%      0.2-3.0%
- Number of pump strokes : 1/2 (50mℓ)    1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 20 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION 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

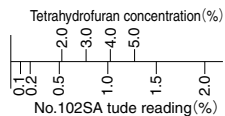
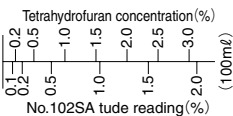
GAS CHROMATOGRAPHY

## 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

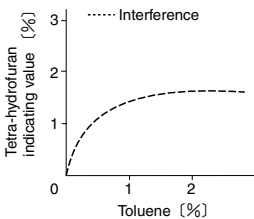


FIG.1 Influence of Toluene

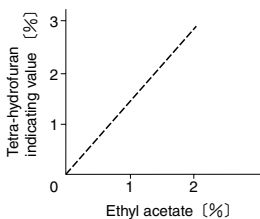


FIG.2 Influence of Ethyl acetate