

1. PERFORMANCE

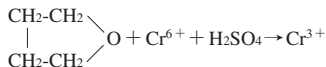
- 1) Measuring range : 2.0-5.0 % 0.2-3.0 %
 Number of pump strokes 1/2 (50ml) 1 (100ml)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 20 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION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

Chromium oxide 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 %	∕

Tetrahydrofuran concentration (%)

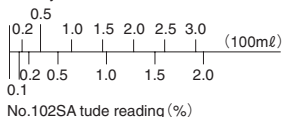


FIG.1 Influence of Toluene

Tetrahydrofuran concentration (%)

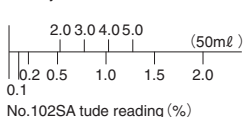


FIG.2 Influence of Ethyl acetate

TEMPERATURE CORRECTION TABLE

Conversion Value (%)	Corrected Concentration (%)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
5.0	6.0	5.3	5.0	4.8	4.5
4.0	4.8	4.3	4.0	3.8	3.6
3.0	3.6	3.2	3.0	2.8	2.7
2.5	3.0	2.7	2.5	2.4	2.3
2.0	2.4	2.1	2.0	1.9	1.8
1.5	1.8	1.6	1.5	1.4	1.4
1.0	1.1	1.1	1.0	1.0	0.9
0.5	0.6	0.5	0.5	0.5	0.5

