

## 1. PERFORMANCE

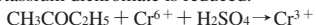
- 1) Measuring range : 1.0-5.0 %    0.05-2.2 %  
     Number of pump strokes : 1/2 (50mℓ)    1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 50 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Reading : Graduations printed on the tube are calibrated by Ethylene oxide at 1 pump stroke and Methyl ethyl ketone is determined by using a conversion chart.
- 7) Colour change : Orange → Dark brown

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

Potassium dichromate is reduced.

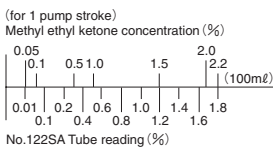
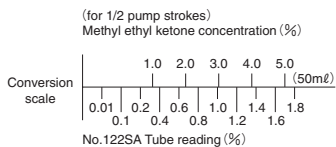


## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

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



### TEMPERATURE CORRECTION TABLE

Conversion Value (%)	Corrected Concentration (ppm)			
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)
2.5	—	2.88	2.50	2.34
2.0	2.70	2.30	2.00	1.84
1.5	2.36	1.74	1.50	1.35
1.0	1.52	1.16	1.00	0.88
0.5	0.70	0.58	0.50	0.42
0.1	0.14	0.12	0.10	0.08
0.05	0.07	0.05	0.05	0.03
0.01	0.01	0.01	0.01	0.01

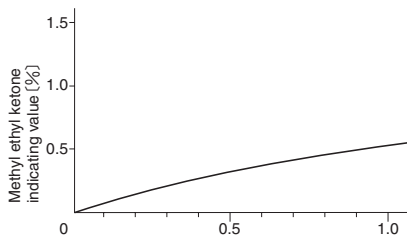


FIG.1 Influence of Methanol

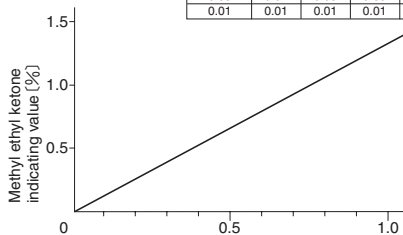


FIG.2 Influence of Ethyl acetate