

1. PERFORMANCE

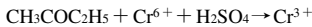
- 1) Measuring range : 1.0-5.0 % 0.05-2.2 %
- Number of pump strokes 1/2 (50mℓ) 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 50 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Reading : Graduations printed on the tube are calibrated by Ethylene 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

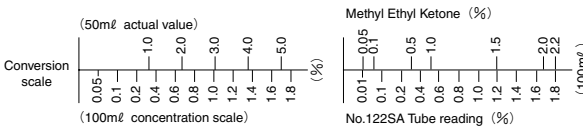
GAS CHROMATOGRAPHY

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 %	∕

(NOTE)

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



TEMPERATURE CORRECTION TABLE

Conversion Value (%)	Corrected Concentration (ppm)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
2.5	—	2.88	2.50	2.34	2.26
2.0	2.70	2.30	2.00	1.84	1.76
1.5	2.36	1.74	1.50	1.35	1.26
1.0	1.52	1.16	1.00	0.88	0.80
0.5	0.70	0.58	0.50	0.42	0.38
0.1	0.14	0.12	0.10	0.08	0.06
0.05	0.07	0.05	0.05	0.03	0.03
0.01	0.01	0.01	0.01	0.01	0.01

