

1. PERFORMANCE

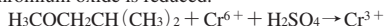
- 1) Measuring range : 0.01-0.6 %
- Number of pump strokes : 3 (300ml)
- 2) Sampling time : 4.5 minutes/3 pump strokes
- 3) Detectable limit : 10 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Graduations printed on the tube are calibrated by Ethylene oxide at 1 pump stroke and Methyl isobutyl ketone is determined by using a conversion chart at pump strokes.
- 8) Colour change : Orange → Dark brown

2. RELATIVE STANDARD DEVIATION

RSD-low : 10% RSD-mid. : 5% 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.
Esters FIG.1	∕		∕
Ketones	∕		∕
Aromatic hydrocarbons FIG.2	∕		∕
Halogenated hydrocarbons	Whole reagent is changed to Pale brown.	0.5%	∕

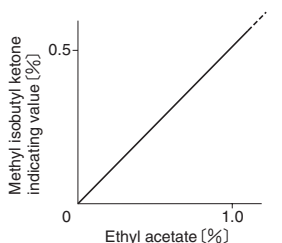


FIG.1 Influence of Ethyl acetate

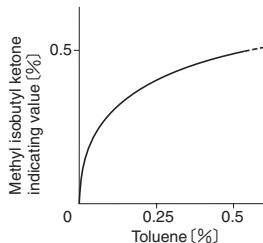
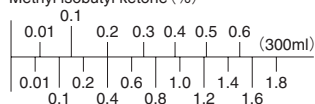


FIG.2 Influence of Toluene

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)
0.6	—	—	0.60	0.55	0.52
0.5	—	—	0.50	0.46	0.43
0.4	—	—	0.40	0.37	0.35
0.3	—	—	0.30	0.28	0.27
0.2	—	0.23	0.20	0.19	0.18
0.1	0.16	0.11	0.10	0.10	0.10
0.05	0.05	0.05	0.05	0.05	0.05

Methyl isobutyl ketone (%)



No.122SA Tube reading (%)