



1. PERFORMANCE

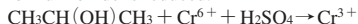
- 1) Measuring range : 0.05-2.5 %
- Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/ 1 pump stroke
- 3) Detectable limit : 100 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Graduations printed on the tube are calibrated by Ethylene oxide at 1 pump stroke and Isopropyl alcohol is determined by using a conversion chart.
- 8) Colour change : Orange → Dark brown

2. RELATIVE STANDARD DEVIATION

RSD-low : 15 % RSD-mid. : 15 % RSD-high : 5 %

3. CHEMICAL REACTION

Chromium oxide is reduced.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

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

(NOTE)

Methanol and Ethyl acetate have the same sensitivity as Isopropyl alcohol.

Methyl ethyl ketone has 3/4 sensitivity of Isopropyl alcohol.

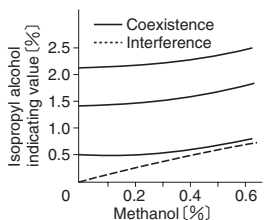


FIG.1 Influence of Methanol

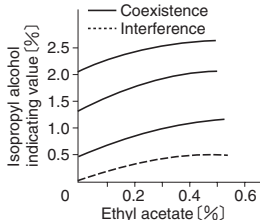


FIG.2 Influence of Ethyl acetate

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	—	—	2.50	2.10
2.0	—	—	2.00	1.70
1.5	—	—	1.50	1.28
1.0	—	1.43	1.00	0.85
0.5	1.00	0.62	0.50	0.42
0.1	0.16	0.14	0.10	0.09
0.05	0.09	0.06	0.05	0.04

