

1. PERFORMANCE

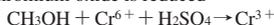
- 1) Measuring range : 20-1,000 ppm
- Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 5 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (0 ~ 20 °C) (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Yellow → Pale blue

2. RELATIVE STANDARD DEVIATION

RSD-low : 15 % RSD-mid. : 10 % RSD-high : 10 %

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		∕
Aliphatic hydrocarbons (more than C ₃)	Whole reagent is changed to Pale brown.	∕
Aromatic hydrocarbons	∕	∕
Ketones	∕	∕
Halogenated hydrocarbons	∕	∕

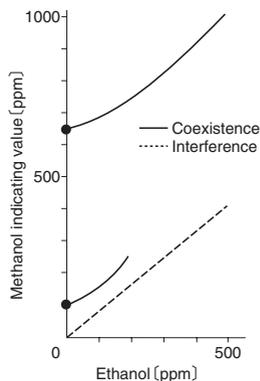


FIG.1 Influence of Ethanol

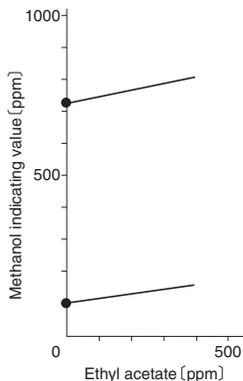


FIG.2 Influence of Ethyl acetate

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)		
	0 °C (32 °F)	10 °C (50 °F)	20-40 °C (68-104 °F)
1000	1200	1100	1000
800	960	880	800
600	720	660	600
400	480	440	400
200	240	220	200
100	120	110	100
50	60	55	50
20	24	22	20