

1. PERFORMANCE

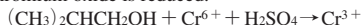
- 1) Measuring range : 5-100 ppm
- Number of pump strokes : 3 (300mℓ)
- 2) Sampling time : 4.5 minutes/3 pump strokes
- 3) Detectable limit : 2 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 3 pump strokes
- 8) Colour change : Yellow → Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	Coexistence
Alcohols FIG.1		Similar stain is produced.	Higher readings are given.
Toluene	200	Whole reagent is changed to Pale blue.	∕
Hexane	1,000	The accuracy of readings is not affected.	The accuracy of readings is not affected.
Trichloroethylene	1,000	∕	∕
Ethyl acetate FIG.2	1,000	∕	∕

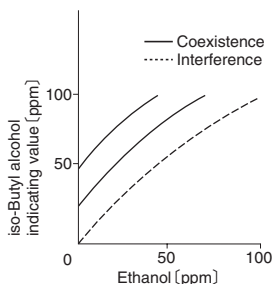


FIG.1 Influence of Ethanol

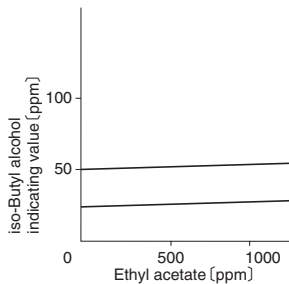


FIG.2 Influence of Ethyl acetate

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
100	—	—	100	85	80
80	—	100	80	75	80
60	95	70	60	53	50
40	58	47	40	36	34
20	27	22	20	18	17
10	13	11	10	9	8
5	5	5	5	5	5