

## 1. PERFORMANCE

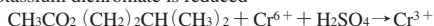
- 1) Measuring range : 10-400 ppm
- Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 4 ppm
- 4) Shelf life : 1 year
- 5) Operating temperature : 10 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Pale yellow → Pale blue (The top of discoloured layer is Brown, but read at the top of Pale blue.)

## 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	Coexistence
Esters	Similar stain is produced.	Higher readings are given.
Alcohols <span style="float: right;">FIG.1</span>	//	//
Ketones	//	//
Aromatic hydrocarbons	Whole reagent is changed to Pale brown.	//

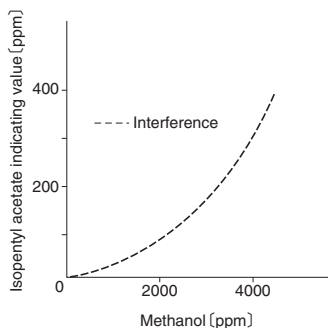


FIG.1 Influence of Methanol

## TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)							
	10 °C (50 °F)	15 °C (59 °F)	20 °C (68 °F)	25 °C (77 °F)	30 °C (86 °F)	35 °C (95 °F)	40 °C (104 °F)	
400	—	—	400	240	190	160	140	
300	—	—	300	200	160	140	120	
200	—	360	200	150	125	110	95	
150	—	230	150	120	100	90	80	
100	—	135	100	85	75	67	60	
50	80	60	50	45	40	35	35	
30	40	35	30	30	25	25	25	
10	10	10	10	10	10	10	10	