

1. PERFORMANCE

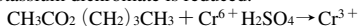
- 1) Measuring range : 10-400 ppm
Number of pump strokes 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 10 ppm
- 4) Shelf life : 1 year
- 5) Operating temperature : 10 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading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

2. RELATIVE STANDARD DEVIATION

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

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	FIG.1	∕
Ketones	∕	∕
Aromatic hydrocarbons	Whole reagent is changed to Pale brown.	∕

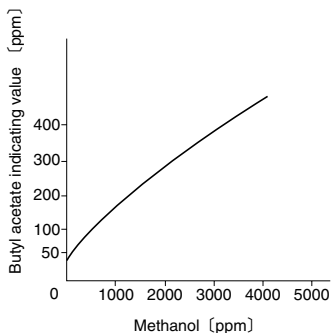


FIG.1 Influence of Methanol

TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True Concentration (ppm)							
	10°C (50° F)	15°C (59° F)	20°C (68° F)	25°C (77° F)	30°C (80° F)	35°C (95° F)	40°C (95° F)	
400	—	—	400	235	180	145	120	
300	—	—	300	185	145	120	100	
200	—	345	200	140	110	95	80	
150	—	255	150	115	95	80	70	
100	—	145	100	80	70	60	50	
50	90	65	50	40	35	30	30	
30	45	35	30	25	25	20	20	
15	20	20	15	15	10	10	10	