

1. PERFORMANCE

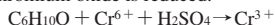
- 1) Measuring range : 2-100 ppm
- Number of pump strokes : 3 (300ml)
- 2) Sampling time : 4.5 minutes/3 pump strokes
- 3) Detectable limit : 1 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : 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	Interference	Coexistence
Aliphatic hydrocarbons (more than C ₃)	Whole reagent is changed to pale brown.	The accuracy of readings is not affected if the maximum end point of the pale blue stain is discernable.
Aromatic hydrocarbons	∕	∕
Halogenated hydrocarbons	∕	∕
Alcohols	FIG.1 Similar stain is produced.	Higher readings are given.
Esters	Pale brown stain is produced from the zero end of the detecting reagent (inlet side of the tube).	The accuracy of readings is not affected.

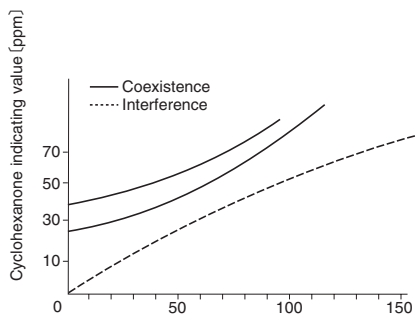


FIG.1 Influence of Ethanol

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	75	60
80	—	120	80	62	50
60	110	84	60	46	37
40	70	52	40	30	25
20	30	26	20	16	13
10	18	14	10	8	7
2	4	3	2	2	1