



1. PERFORMANCE

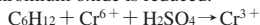
- 1) Measuring range : 0.01-0.6 %
Number of pump strokes : 1 (100ml)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 0.005% (50 ppm)
- 4) Shelf life : 3 years
- 5) Operating temperature : 10 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Orange → Dark green

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Benzene FIG.1	Black stain is produced.	400	Higher readings are given.
Toluene FIG.2	∕	800	∕
Xylene	∕	2,000	∕
Acetylene	Whole layer is discoloured to Dark green.		∕
Ethylene	Similar stain is produced.		∕
Aliphatic hydrocarbons (more than C ₃)	∕		∕

* In presence of Alcohols, Ketones or Esters less than 6 %, the accuracy of readings is not affected.

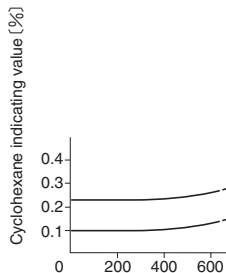


FIG.1 Influence of Benzene

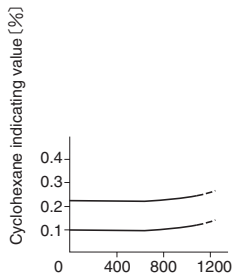


FIG.2 Influence of Toluene

TEMPERATURE CORRECTION TABLE

Tube Readings (%)	Corrected Concentration (%)				
	10 °C (50 °F)	15 °C (59 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
0.6	0.73	0.67	0.60	0.53	0.49
0.5	0.62	0.54	0.50	0.45	0.41
0.4	0.48	0.43	0.40	0.36	0.34
0.3	0.34	0.32	0.30	0.28	0.26
0.2	0.22	0.21	0.20	0.19	0.18
0.1	0.10	0.10	0.10	0.10	0.10