

1. PERFORMANCE

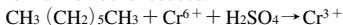
- 1) Measuring range : 100-2,000 ppm
Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 15 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Graduations printed on the tube are calibrated by Hexane at 1 pump stroke and Heptane concentration is determined by using a conversion chart at 3 pump strokes.
- 8) Colour change : Orange → Yellowish green

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	ppm	Coexistence
Alcohols	Similar stain is produced.	6 %	
Ketones	∕	∕	∕
Esters	∕	∕	∕
Aromatic hydrocarbons FIG.1,2	∕		The bottom of the discoloured layer is stained to Black and higher readings are given.
Paraffin hydrocarbons (more than C ₃)	∕		Higher readings are given.

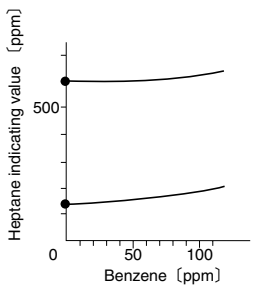


FIG.1 Influence of Benzene

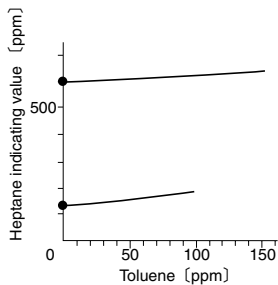
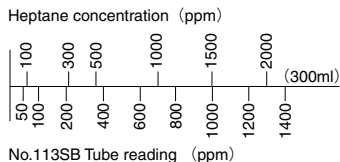


FIG.2 Influence of Toluene



TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True Concentration (ppm)			
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	40 °C (104 °F)
2,000	—	—	2,000	1,680
1,600	—	2,000	1,600	1,380
1,200	2,000	1,160	1,200	1,040
800	1,200	840	800	720
400	520	460	400	360
200	260	230	200	180
100	100	100	100	100