

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 : The tube scale is calibrated based on n-Hexane at 1 pump stroke and Heptane concentration is determined by using a conversion chart at 1 pump stroke
- 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.
Aliphatic hydrocarbons (more than C ₃)	∕		Higher readings are given.

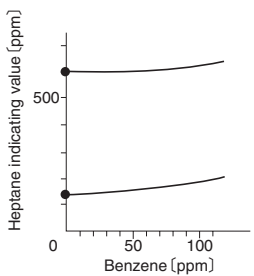


FIG.1 Influence of Benzene

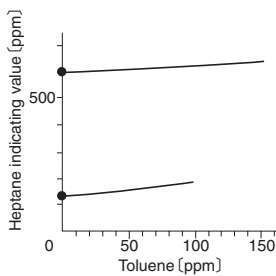
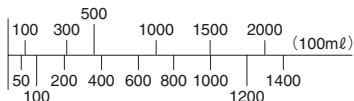


FIG.2 Influence of Toluene

Heptane concentration (ppm)



No.113SB Tube reading (ppm)

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)
1600	—	2000	1600	1380	1200
2000	—	—	2000	1680	1460
1200	2000	1480	1200	1040	920
800	1200	940	800	720	660
400	520	460	400	360	320
200	260	230	200	180	160
100	100	100	100	100	100