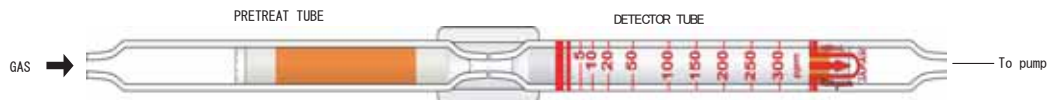


Tube No.
118SB

BENZENE



1. PERFORMANCE

- 1) Measuring range : 5–300ppm
Number of pump strokes 1 (100mL)
- 2) Sampling time : 3 minutes/1 pump stroke
- 3) Detectable limit : 3ppm(100mL)
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 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 : White → Greenish brown

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Iodine pentoxide is reduced.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Toluene	20	Yellowish brown stain is produced.	less than 150	The accuracy of readings is not affected.
Xylene	60	"	less than 300	"
Hexane	200	Whole reagent is discoloured to Dark grey.	800	Whole reagent is changed to Dark grey and higher readings are given.

TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True Concentration (ppm)				
	10°C (32°F)	15°C (59°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
300	—	—	300	270	240
250	—	390	250	225	200
200	—	290	200	180	160
150	300	225	150	135	120
100	225	163	100	90	80
50	135	93	50	45	40
20	70	45	20	18	16
10	45	28	10	9	8
5	30	18	5	4.5	4