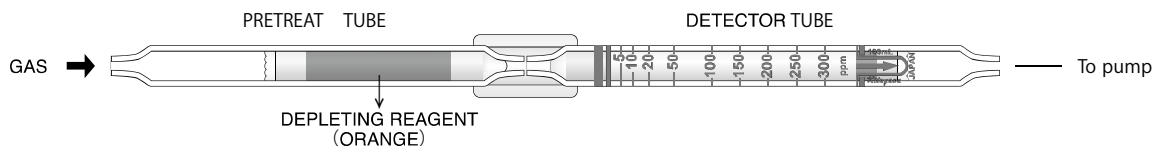


Tube No.  
**118SB**

# BENZENE

-In the Presence Of Other Aromatic Hydrocarbons



## 1. PERFORMANCE

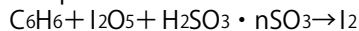
- 1) Measuring range : 5-300ppm
- Number of pump strokes : 1 (100mL)
- 2) Sampling time : 3 minutes / 1 pump stroke
- 3) Detectable limit : 3 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 10~40°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : 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 changed 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 (50°F)	20°C (68°F)	30°C (80°F)	40°C (104°F)
300	—	—	300.0	270.0	240.0
250	—	390.0	250.0	225.0	200.0
200	—	290.0	200.0	180.0	160.0
150	300.0	225.0	150.0	135.0	120.0
100	225.0	163.0	100.0	90.0	80.0
50	135.0	93.0	50.0	45.0	40.0
20	70.0	45.0	20.0	18.0	16.0
10	45.0	28.0	10.0	9.0	8.0
5	30.0	18.0	5.0	4.5	4.0