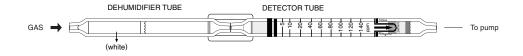
CHLOROBENZENE



1. PERFORMANCE

1) Measuring range Number of pump strokes Sampling time S-140 ppm 1-5 ppm $1(100m\ell)$ S(500m ℓ) 2 Sampling time S-2 minutes/1 pump stroke

3) Detectable limit ∴ 0.5 ppm (500mℓ) 4) Shelf life ∴ 2 years

5) Operating temperature $0 \sim 40 \, \text{C}$

6) Reading : Direct reading from the scale calibrated by 1 pump stroke

7) Colour change : White→Pale brown

2. RELATIVE STANDARD DEVIATION

RSD-low: 20% RSD-mid.: 10% RSD-high: 10%

3. CHEMICAL REACTION

lodine pentoxide is reduced.

 $C_6H_5CI + I_2O_5 + H_2SO_4 \cdot nSO_3 \rightarrow I_2$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Ethyl benzene	Similar stain is produced.		Higher readings are given.
Toluene	"		"
Xylene	"		"
Benzene	"		"
Carbon monoxide	Whole reagent is changed to the similar stain's colour.	50	"
Hexane	"	100	"

(NOTE)

When the concentration is below 5 ppm, 5 pump strokes can be used to determine the lower concentration with the following formula;

Actual concentration = $1/5 \times$ Reading value