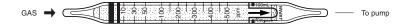
TOLUENE



1. PERFORMANCE

1) Measuring range 10-500 ppmNumber of pump strokes $1(100\text{m}\ell)$

2) Sampling time : 2 minutes/1 pump stroke

3) Detectable limit \therefore 3 ppm 4) Shelf life \therefore 3 years 5) Operating temperature \therefore 0 \sim 40 $^{\circ}$ C

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

7) Colour change : White→Brown

2. RELATIVE STANDARD DEVIATION

RSD-low: 10% RSD-mid.: 10% RSD-high: 5%

3. CHEMICAL REACTION

Iodine pentoxide is reduced. $C_6H_5CH_3 + I_2O_5 + H_2SO_4 \rightarrow I_2$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Benzene	Similar stain is produced.		Higher readings are given.
Xylene	"		"
Ethyl benzene	"		"
Hexane	Whole layer is discoloured to Pale brown.	0.1%	Higher readings with indiscernible maximum end point of stained layer are given.
Methyl alcohol	The accuracy of readings is not affected.	1%	Higher readings are given.