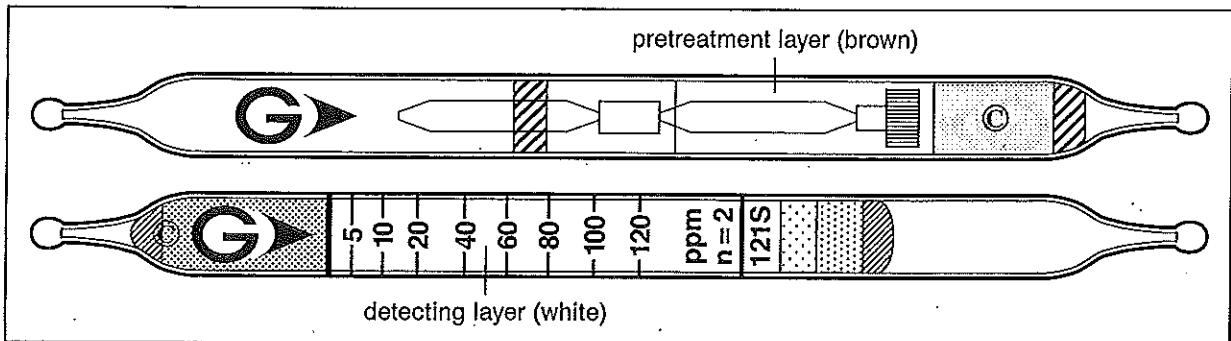


Benzene C₆H₆

No.121S



Performance

When used, these tubes are to be connected. See page 2-3.

Measuring range	2 to 5 ppm	5 to 120 ppm	120 to 312 ppm
Number of pump strokes	4 (400 ml)	2 (200 ml)	1 (100 ml)
Correction factor	0.4	1	2.6
Sampling time	8 min	4 min	2 min

Detecting limit : 0.5 ppm (4 pump strokes)

Colour change : White → Dark green

Corrections for temperature & humidity : Unnecessary

Relative standard deviation : 20 % (for 5 to 40 ppm), 15 % (for 40 to 120 ppm)

Shelf life : 3 years

Reaction principle

Pretreatment tube : Interference gas removing

Detector tube : $C_6H_6 + I_2O_5 + H_2S_2O_7 \rightarrow I_2$

Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Hexane	≤ 100 ppm	No	} No
Toluene	≤ 200 ppm	No	
Xylene	≤ 300 ppm	No	

Aromatic hydrocarbons other than benzene are trapped in the brown layer in the pretreatment tube. If the pretreatment reagent is entirely consumed (whole brown layer turns to dark brown), a higher reading will be given.

Calibration gas generation

Diffusion tube method