



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

### Performance

Measuring range	0.2 to 20 ppm	20 to 66 ppm
Number of pump strokes	3 (300 ml)	1 (100 ml)
Correction factor	1	3.3
Sampling time	6 min	2 min

Detecting limit : 0.1 ppm (3 pump strokes)  
 Colour change : White → Brown  
 Corrections for temperature & humidity : Unnecessary  
 Relative standard deviation : 10 % (for 0.2 to 5 ppm), 5 % (for 5 to 20 ppm)  
 Shelf life : 2 years

### Reaction principle

Pretreatment tube : Interference gas removing  
 Detector tube :  $2C_6H_6 + HCHO \rightarrow C_6H_5CH_2C_6H_5 + H_2O$   
 $C_6H_5CH_2C_6H_5 + H_2S_2O_7 \rightarrow$  Condensation polymer

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

Substance	Concentration	Interference	Changes colour by itself to
Hexane	≦ 500 ppm	No	} No
Toluene	≦ 300 ppm	No	
Xylene	≦ 350 ppm	No	

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

### Calibration gas generation

Diffusion tube method