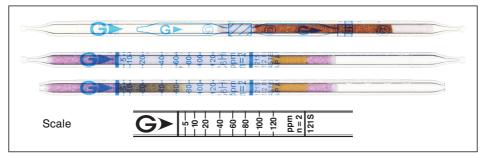
Benzene C6H6



Performance

When used, these tubes are to be connected.

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

Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction not used

Relative humidity 0 to 90 % correction not used

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

Tube quantity and number of tests per box: 10 tubes for 5 tests

Shelf life: 36 months

Reaction principle

 $C_6H_6 + I_2O_5 + H_2S_2O_7 \rightarrow I_2$

Possible coexisting substances and their interferences

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

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