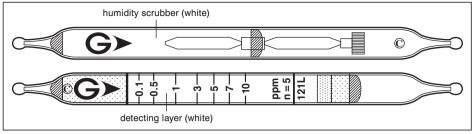
# Benzene C6H6



#### Performance

#### When used, these tubes are to be connected.

Measuring range	0.1 to 10 ppm	10 to 65 ppm
Number of pump strokes	5(500 ml)	1(100 ml)
Correction factor	1	6.5
Sampling time	10 min	2 min

Detecting limit : 0.05 ppm (5 pump strokes)
Colour change : White → Dark green

Corrections for temperature & humidity: Unnecessary

Relative standard deviation: 10 % (for 0.1 to 3 ppm), 5 % (for 3 to 10 ppm)

Shelf life: 3 years

## 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
Alcohols, ketones		No	No
Ethyl benzene	≥ 1/1	+	Blackish brown
Xylene	≥ 10 ppm	+	Blackish brown around zero point
Toluene	≥ 1/1	+	Blackish brown
Hexane	≥ 3 ppm	+ (Unclear	No
		demarcation)	

#### Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Methylene iodide	Factor : 2.2	5	0.22 to 22 ppm
Methyl iodide	Factor: 3.2	5	0.32 to 32 ppm

## Calibration gas generation

Permeation tube method