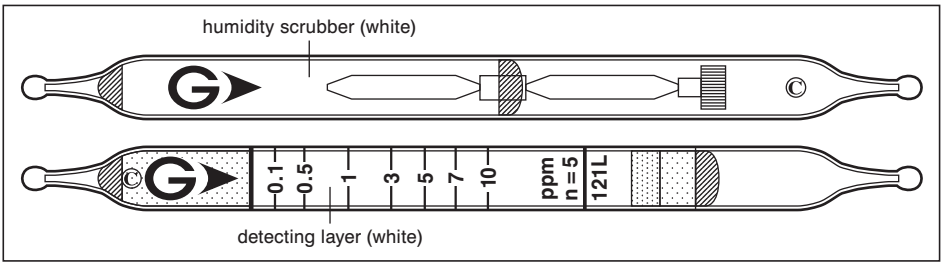
Benzene C_6H_6 No.121L



When used, these tubes are to be connected.

Performance

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	+	Dark brown
Xylene	≧ 10 ppm	+	Dark brown around zero point
Toluene	≧ 1/1	+	Dark brown
Hexane	≧ 3 ppm	+(Unclear demarcation)	No

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