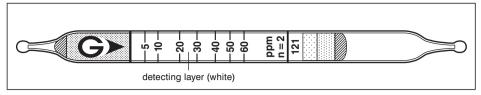
# Benzene CaHa



#### Performance

Measuring range	2.5 to 5 ppm	5 to 60 ppm	60 to 120 ppm
Number of pump strokes	4 (400 ml)	2(200 ml)	1(100 ml)
Correction factor	1/2	1	2
Sampling time	6 min	3 min	1.5 min

 $\begin{array}{lll} \mbox{Detecting limit:} & \mbox{0.5 ppm } (\mbox{4 pump strokes}) \\ \mbox{Colour change:} & \mbox{White} \rightarrow \mbox{Dark green} \\ \end{array}$ 

Corrections for temperature & humidity : Unnecessary

Relative standard deviation : 10 % (for 5 to 20 ppm), 5 % (for 20 to 60 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
Aromatic hydrocarbons		+	Dark green
Esters	≥ 2000 ppm	+	No
Alcohols, Ketones	≦ 1%	No	No
Aliphatic hydrocarbons		No	Pale brown

### Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Diisobutylene	Factor: 9	1	45 to 540 ppm
$\alpha$ -Pinene	Factor: 19	3	95 to 1140 ppm

## Calibration gas generation

Diffusion tube method