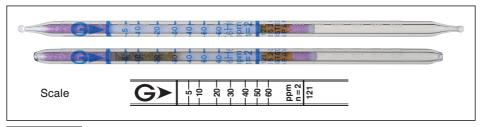
Benzene C6H6



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

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 : 10 % (for 5 to 20 ppm), 5 % (for 20 to 60 ppm)

Tube quantity and number of tests per box: 10 tubes for 10 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
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
α -Pinene	Factor: 28	3	140 to 1680 ppm

Calibration gas generation

Diffusion tube method