

Application Range

Standard Measuring Range:	0.25 to 2 ppm / 2 to 10 ppm
Number of Strokes n:	5 / 1
Time for Measurement:	5 / 1
Standard Deviation:	± 15 %
Color Change:	light grey → dark grey to black

Ambient Operating Conditions

Temperature:	0 to 40 °C
Absolute Humidity:	< 40 mg H ₂ O / L

Reaction Principle

Benzene + Alu⁺ → dark grey to black reaction product

Cross Sensitivity

Up to a concentration of approx. 40 ppm (n=5) and 200 ppm (n=1), toluene, xylene and ethyl benzole are kept in the pre-layer where they cause a brown discolouration. 800 ppm n-Oktane (n=5) and 4000 ppm n-Octane (n=1) do not cause any discolouration in the indicating layer.



Application Range

Standard Measuring Range:	1 ppm
Number of Strokes n:	4
Time for Measurement:	approx. 3 min
Standard Deviation:	± 20 %
Color Change:	light grey → dark grey to black

Ambient Operating Conditions

Temperature:	0 to 40 °C
Absolute Humidity:	< 40 mg H ₂ O / L

Reaction Principle

Benzene + Ali 3⁺ → dark grey to black reaction product

Cross Sensitivity

Alkanes are not indicated. Toluene, xylene, ethyl benzene, and other substituted aromatics up to a concentration of approx. brown discolouration (approx. 4 mm at 40 ppm). 200 ppm propene and 200 ppm 1-butene each to not cause any discolouration of the indicating layer.



Benzene 2/a

Order No. 81 01 231

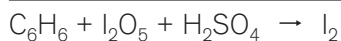
Application Range

Standard Measuring Range:	2 to 60 ppm
Number of Strokes n:	20
Time for Measurement:	approx. 8 min
Standard Deviation:	± 10 to 15 %
Color Change:	white → brown grey

Ambient Operating Conditions

Temperature:	0 to 40 °C
Absolute Humidity:	1 to 15 mg H ₂ O / L

Reaction Principle



Cross Sensitivity

Alkyl benzenes such as toluene or xylene up to a concentration of 200 ppm do not affect the indication. It is impossible to measure benzene in the presence of petroleum hydrocarbons and carbon monoxide.



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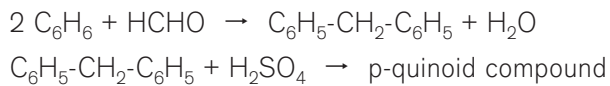
Application Range

Standard Measuring Range:	5 to 40 ppm
Number of Strokes n:	15 to 2
Time for Measurement:	max. 3 min
Standard Deviation:	± 30 %
Color Change:	white → red brown

Ambient Operating Conditions

Temperature:	0 to 40 °C
Absolute Humidity:	max. 50 mg H ₂ O / L

Reaction Principle



Cross Sensitivity

Other aromatics (toluene, xylene) are retained in the pre-layer causing a reddish brown discoloration. If the toluene or xylene concentrations are too high the entire pre-layer up to the indicating layer is discolored making a benzene measurement impossible. Petroleum hydrocarbons, alcohols and esters do not affect the indication.



Benzene 5/b

Order No. 67 28 071

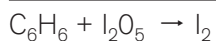
Application Range

Standard Measuring Range:	5 to 50 ppm
Number of Strokes n:	20
Time for Measurement:	approx. 8 min
Standard Deviation:	± 10 to 15 %
Color Change:	white → brown green

Ambient Operating Conditions

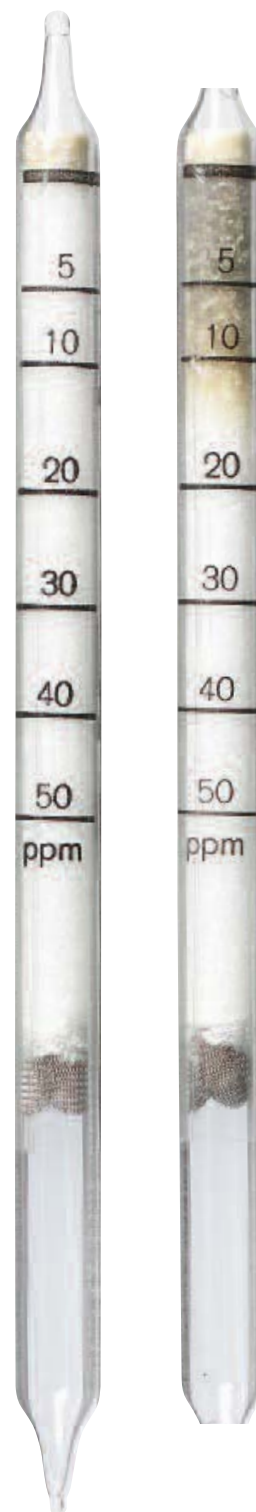
Temperature:	0 to 40 °C
Absolute Humidity:	3 to 15 mg H ₂ O / L

Reaction Principle



Cross Sensitivity

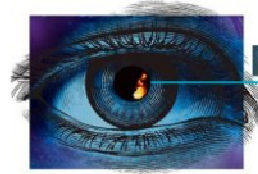
Many other petroleum hydrocarbons are indicated as well, but with different sensitivities. It is impossible to differentiate them. Other aromatics are indicated as well.



ST-23-2001

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