

**Application Range**

Standard Measuring Range:	15 to 420 ppm
Number of Strokes n:	20 to 2
Time for Measurement:	max. 4 min
Standard Deviation:	± 30 %
Color Change:	white → red brown

**Ambient Operating Conditions**

Temperature:	0 to 30 °C
Absolute Humidity:	max. 30 mg H <sub>2</sub> O / L

**Reaction Principle**

- a)  $2 \text{C}_6\text{H}_6 + \text{HCHO} \rightarrow \text{C}_6\text{H}_5\text{-CH}_2\text{-C}_6\text{H}_5 + \text{H}_2\text{O}$   
 b)  $\text{C}_6\text{H}_5\text{-CH}_2\text{-C}_6\text{H}_5 + \text{H}_2\text{SO}_4 \rightarrow \text{p-quinoid compound}$

**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.

