

# Ethylene Glycol 10

Order No. 81 01 351

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## Application Range

|                           |  |
|---------------------------|--|
| Standard Measuring Range: | 10 to 180 mg/m <sup>3</sup><br>Corresponds to 4 to 70 ppm. |
| Number of Strokes n:      | 10   |
| Time for Measurement:     | approx. 7 min  |
| Standard Deviation:       | ± 20 to 30 %   |
| Color Change:             | white → pink   |

## Ambient Operating Conditions

|                    |                                 |
|--------------------|---------------------------------|
| Temperature:       | 10 to 35 °C                     |
| Absolute Humidity: | 2 to 15 mg H <sub>2</sub> O / L |

## Reaction Principle

- $\text{OH-C}_2\text{H}_4\text{-OH} \rightarrow \text{HCHO}$
- $\text{HCHO} + \text{C}_6\text{H}_4(\text{CH}_3)_2 + \text{H}_2\text{SO}_4 \rightarrow \text{quinoid reaction products}$

## Cross Sensitivity

Styrene, vinyl acetate and acetaldehyde are indicated with a yellowish brown discoloration.

It is impossible to measure ethylene glycol in the presence of formaldehyde and ethylene oxide because they produce the same discoloration.

## Additional Information

The reagent ampoule must be broken before carrying out the measurement.

