

Ethylene Oxide 1/a

Order No. 67 28 961

Application Range

Standard Measuring Range:	1 to 15 ppm
Number of Strokes n:	20
Time for Measurement:	approx. 8 min
Standard Deviation:	± 20 to 30 %
Color Change:	white → pink

Ambient Operating Conditions

Temperature:	10 to 30 °C
Absolute Humidity:	3 to 15 mg H ₂ O / L

Reaction Principle

- a) Ethylene Oxide → HCHO
- b) $\text{HCHO} + \text{C}_6\text{H}_4(\text{CH}_3)_2 + \text{H}_2\text{SO}_4 \rightarrow$ quinoid reaction products

Cross Sensitivity

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

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

Additional Information

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

