

Ethylene Oxide 1/a

Catalog No 6728961

Standard Measuring Range: 1 to 15 ppm
Number of Strokes (n): 20
Time for Measurement: about 8 minutes
Standard Deviation: ± 20 to 30%
Color Change: white to pink

Ambient Operation Conditions

Temperature: 10 to 30°C
Absolute Humidity: 3 to 15 mg H₂O/L

Reaction Principle

- a) Ethylene Oxide \longrightarrow HCHO
b) $\text{HCHO} + \text{C}_6\text{H}_4(\text{CH}_3)_2 + \text{H}_2\text{SO}_4 \longrightarrow$ 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 ampule must be broken before carrying out the measurement.



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