# Tertiary Butylmercaptan Natural Gas Odorization Order No. 81 03 071

## Application Range

Standard Measuring Range: 3 to 15 mg/m³ / 1 to 10 mg/m³

Number of Strokes n: 3 / 5
Time for Measurement: 3 min / 5 min

Standard Deviation:  $\pm$  15 to 20 % Color Change: yellow  $\rightarrow$  pink

# **Ambient Operating Conditions**

Temperature: 20 to 35 °C

Absolute Humidity: < 15 mg H<sub>2</sub>O / L

## Reaction Principle

TBM + HgCl<sub>2</sub>O<sub>7</sub> → HgS + 2 HCl

HCl + pH-indicator → pink reaction product

### Cross Sensitivity

Hydrogen sulfide, sulfur dioxide, mercaptane, arsine, nitrogen dioxide and phosphine are indicated as well, but with different sensitivities.

### Additional Information

For applications in an environment with temperatures below 20 °C use temperature correction. To do so refer to the instructions for use.



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