

# Nitric Acid 1/a

Order No. 67 28 311

## Application Range

Standard Measuring Range:	5 to 50 / 1 to 15 ppm
Number of Strokes n:	10 / 20
Time for Measurement:	approx. 2 min / approx. 4 min
Standard Deviation:	± 10 to 15 %
Color Change:	blue → yellow

## Ambient Operating Conditions

Temperature:	5 to 40 °C
Absolute Humidity:	3 to 15 mg H <sub>2</sub> O / L

## Reaction Principle

$\text{HNO}_3 + \text{Bromophenol blue} \rightarrow \text{yellow reaction product}$

## Cross Sensitivity

Hydrogen sulfide and nitrogen dioxide in the TLV range do not interfere, however, 50 ppm nitrogen dioxide gives an indication similar to 3 ppm nitric acid. It is impossible to measure nitric acid in the presence of other mineral acids. Chlorine discolors the indication layer grey, and this makes it difficult to evaluate the nitric acid indication. If chlorine is present in the TLV range, this leads to slightly higher nitric acid indications.



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