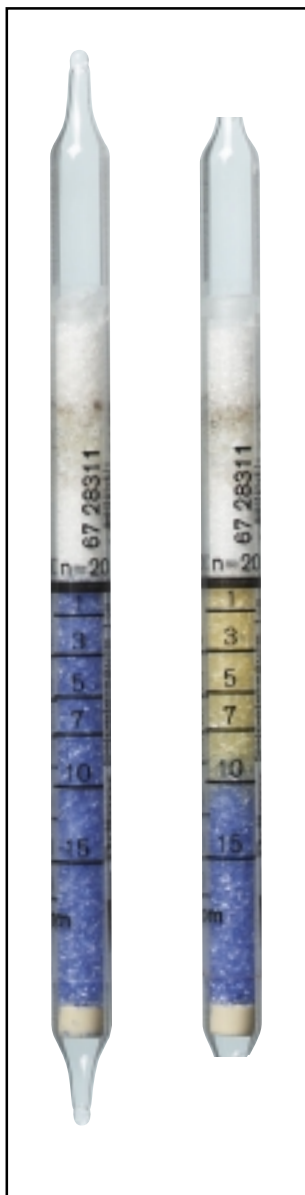


Nitric Acid 1/a

Order No.

67 28311



SI-117-2001

Standard Measuring Range : 5 to 50 ppm / 1 to 15 ppm
Number of Strokes (n) : 10 / 20
Time for Measurement : app. 2 min / app. 4 min
Standard Deviation : ± 10 to 15 %
Colour Change : blue \rightarrow yellow

Ambient Operating Conditions

Temperature : 5 to 40 °C
Absolute Humidity : 3 to 15 mg H₂O / L

Reaction Principle

HNO₃ + Bromophenol blue \rightarrow yellow reaction product

Cross Sensitivity

Hydrogen sulphide 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 discolours 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.