

Natural Gas Test

Order No. CH 20 001

Application Range

Standard Measuring Range:	Qualitative determination of natural gas
Number of Strokes n:	5
Time for Measurement:	approx. 100 s
Standard Deviation:	50 %
Color Change:	white → brown green to grey violet

Ambient Operating Conditions

Temperature:	0 to 50 °C
Absolute Humidity:	max. 40 mg H ₂ O / L

Reaction Principle

- a) $\text{CH}_4 + \text{KMnO}_4 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{CO}$
 b) $\text{CO} + \text{I}_2\text{O}_5 \rightarrow \text{I}_2 + \text{CO}_2$

Cross Sensitivity

Due to the reaction principle a number of other organic compounds such as propane and butane are indicated as well. Carbon monoxide is also indicated. It is not possible to differentiate between different compounds.



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