Natural Gas Test

Catalog No CH20001

Standard Measuring Range: Qualitative determination of natural gas;

0.5 vol% methane, 0.05 vol% ethane or propane discolors the indicating layer.

Number of Strokes (n): 2

Time for Measurement: about 40 seconds

Color Change: white to brown green to grey violet

Ambient Operation Conditions

Temperature: 0 to 50°C

Absolute Humidity: maximum 40 mg H₂O/L

Reaction Principle

a)
$$CH_4 + KMnO_4 + H_2S_2O_7 ----> CO$$

b)
$$CO + I_2O_5 \longrightarrow I_2 + CO_2$$

Cross Sensitivity

Based on the reaction principle, a number of organic compounds are indicated (e.g. propane, butane).

Carbon monoxide is also indicated.

A differentiation of different compounds is impossible.



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