

# Hydrocarbons 0.1%/c

Order No. 81 03 571

H

## Application Range

Standard Measuring Range:	0.1 to 1.3 vol. % propane 0.1 to 1.3 vol. % butane 0.1 to 1.3 vol. % mixture (mix 1:1)
Number of Strokes n:	1
Time for Measurement:	approx. 3 min
Standard Deviation:	± 15 %
Color Change:	orange → brown green

## Ambient Operating Conditions

Temperature:	0 to 40 °C
Absolute Humidity:	1 to 40 H <sub>2</sub> O / L

## Reaction Principle

$$\text{C}_3\text{H}_8 / \text{C}_4\text{H}_{10} + \text{Cr}^{6+} \rightarrow \text{Cr}^{3+} + \text{div. oxidation products}$$

## Cross Sensitivity

The information regarding cross sensitivity only applies for measurements with a maximum of 1 stroke. Hydrocarbons, hydrocarbons with olefin double bonds are indicated with different discoloration and sensitivity. No influence on the display of 0.1 vol. % propane/butane at:

- < 99.9 vol. % methane
- < 5 vol. % ethane
- < 1 vol. % carbon monoxide
- < 500 ppm acetylene, ethylene

## Additional Information

A maximum of 15 strokes within 1 hour can be performed for leakage measurements (qualitative measurements).

