

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 ₂ O / L

Reaction Principle

$C_3H_8 / C_4H_{10} + Cr^{6+} \rightarrow Cr^{3+} + \text{div. oxidation products}$

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).



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