



# Hydrocarbons, $C_4 - C_6$

## Analysis of branched hydrocarbons

### Application Note

Energy & Fuels

#### Authors

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#### Introduction

Gas chromatography with an Agilent CP-SilicaPLOT column separates six  $C_4$  to  $C_6$  hydrocarbons in 14 minutes.



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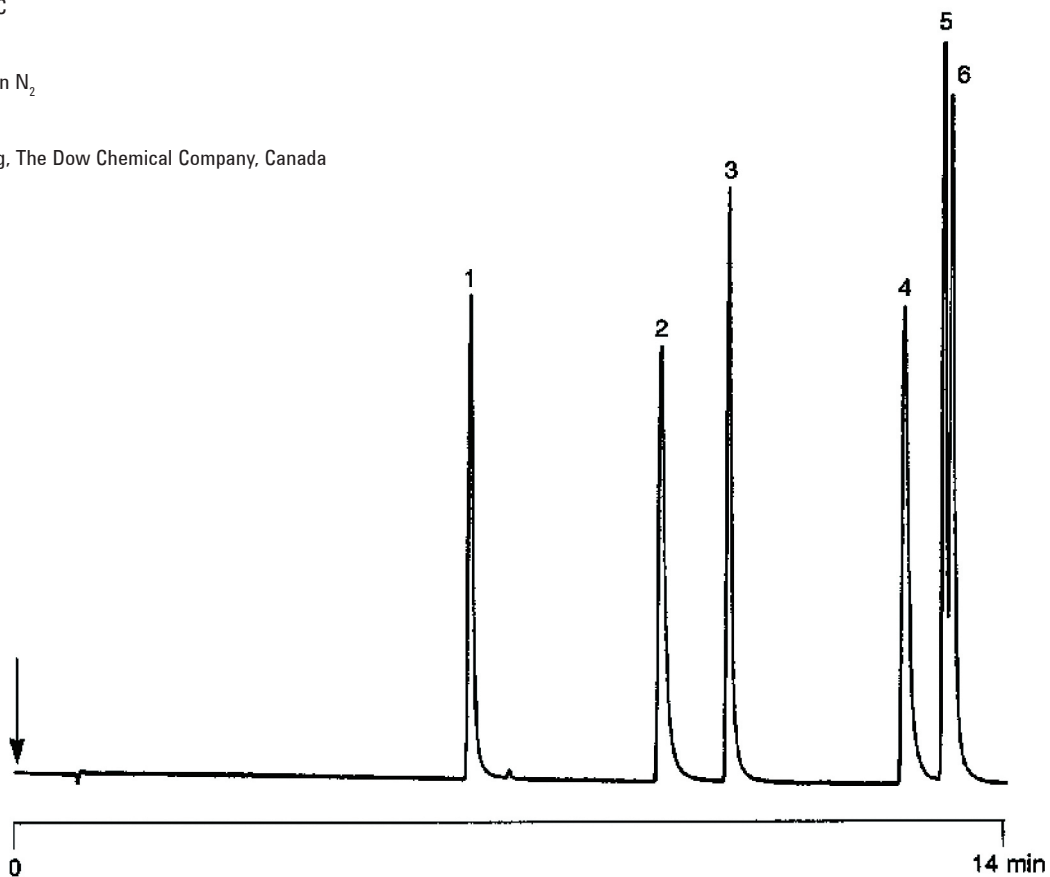
## Conditions

Technique : GC-capillary  
Column : Agilent CP-SilicaPLOT, 0.32 mm x 30 m, fused silica  
PLOT CP-SilicaPLOT (df = 4  $\mu$ m) (Part no. CP8567)  
Temperature : 30 °C (2 min)  $\rightarrow$  250 °C, 10 °C/min  
Carrier Gas : He, 210 kPa (2.1 bar, 30 psi)  
Injector : Split, 1:100  
T = 200 °C  
Detector : FID  
T = 250 °C  
Sample Size : 0.5 mL  
Concentration Range : 100 ppm in N<sub>2</sub>

Courtesy : Jim Luong, The Dow Chemical Company, Canada

## Peak identification

1. isobutane (2-methylpropane)
2. 2,2-dimethylpropane
3. 2-methylbutane
4. 2,2-dimethylbutane
5. 2-methylpentane
6. 3-methylpentane



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This information is subject to change without notice.

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