



# Hydrocarbons, $C_5 - C_8$

## Application Note

Energy & Fuels

### Authors

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### Introduction

Gas chromatography with an Agilent CP-Sil 5 CB column module and Agilent 490 Micro GC separates 16  $C_5$  to  $C_8$  hydrocarbon isomers in 220 seconds.



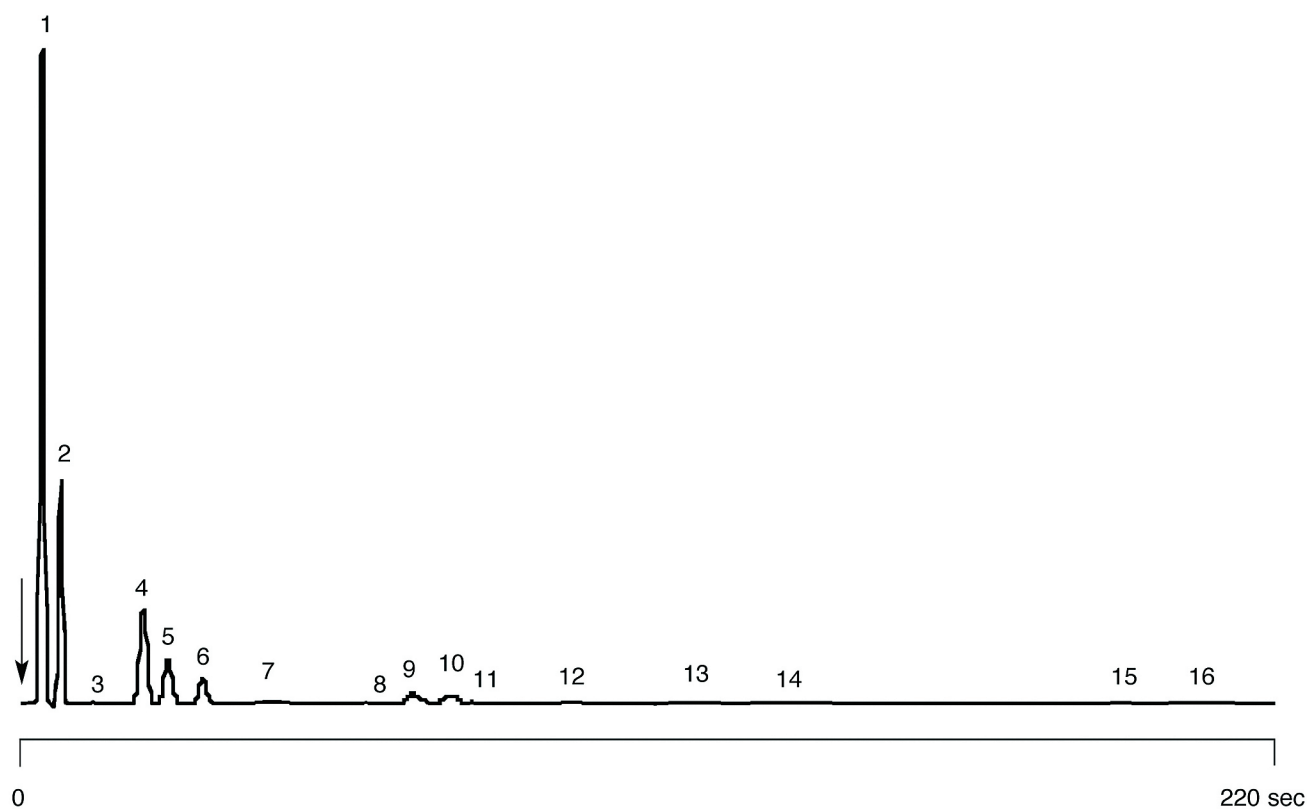
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## Conditions

Technique : Micro-GC  
Column : Agilent CP-Sil 5 CB, 0.15 mm x 4 m fused silica  
WCOT (Part no. CP737052)  
Temperature : 30 °C  
Carrier Gas : He, 90 kPa (0.9 bar, 12 psi)  
Heated Injector : no  
Injection Time. : 255 msec  
  
Courtesy : Pascal Vattaire, Jean-Luc Barranca,  
Agilent France S.A.

## Peak identification

1. isopentane
2. C<sub>5</sub>
3. 2,3-dimethyl butane
4. 2-methylpentane
5. 3-methylpentane
6. C<sub>6</sub>
7. 2,2-dimethyl octane + methylcyclopentane
8. ?
9. 2-methylhexane
10. 3-methylhexane
11. 1,3-trans dimethylcyclopentane, 1,3-cis dimethylcyclopentane
12. C<sub>7</sub>
13. methylcyclohexane
14. isooctane isomer
15. isooctane isomer
16. isooctane isomer



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Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A01628



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