



Hydrocarbons, $C_5 - C_8$

Application Note

Energy & Fuels

Authors

Agilent Technologies, Inc.

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.



Agilent Technologies

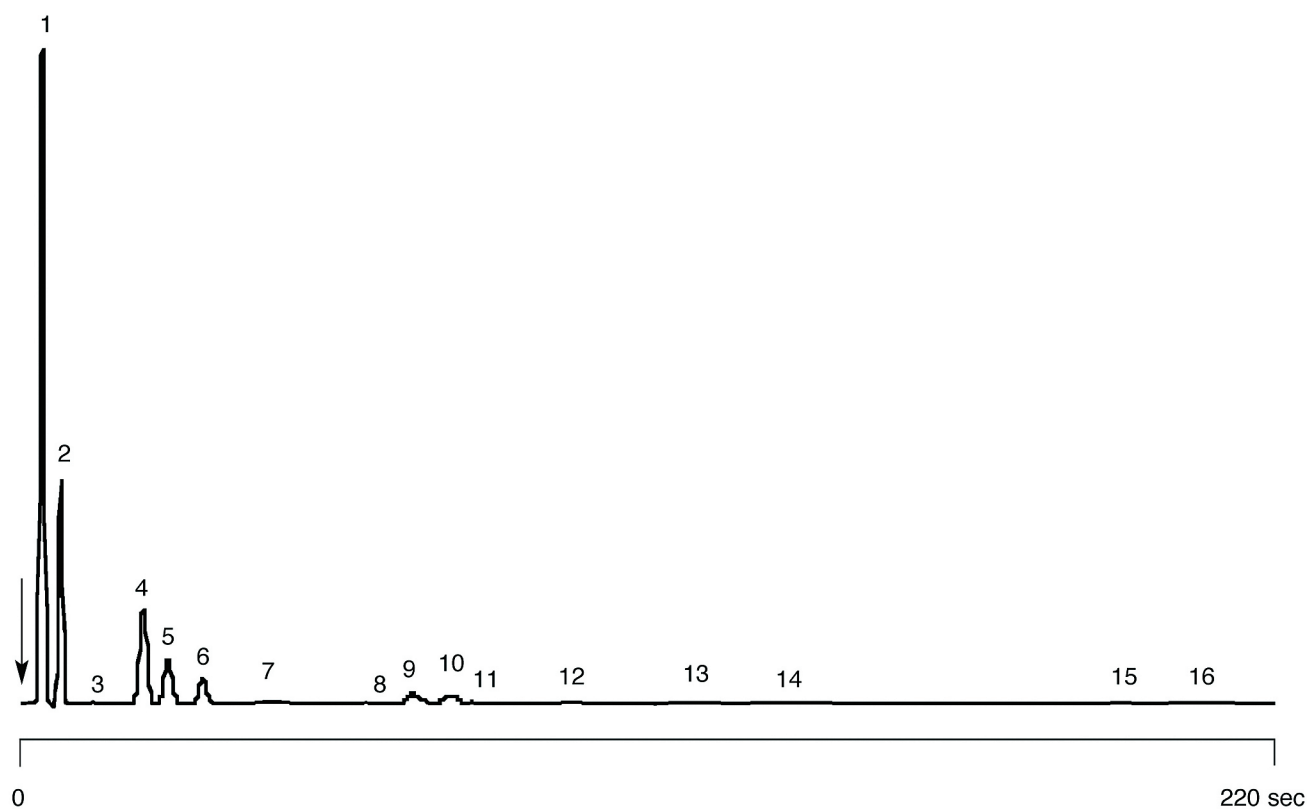
Conditions

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. C₅
3. 2,3-dimethyl butane
4. 2-methylpentane
5. 3-methylpentane
6. C₆
7. 2,2-dimethyl octane + methylcyclopentane
8. ?
9. 2-methylhexane
10. 3-methylhexane
11. 1,3-trans dimethylcyclopentane, 1,3-cis dimethylcyclopentane
12. C₇
13. methylcyclohexane
14. isooctane isomer
15. isooctane isomer
16. isooctane isomer



www.agilent.com/chem

This information is subject to change without notice.

© Agilent Technologies, Inc. 2011

Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A01628



Agilent Technologies