



# Methylisobutylketone and related products

Separation of MIK and related products on a 100  $\mu\text{m}$  fused silica capillary column

## Application Note

Energy & Fuels

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### Introduction

Gas chromatography using an Agilent CP-Wax 57 CB column separates methylisobutylketone and four related compounds in just over four minutes.



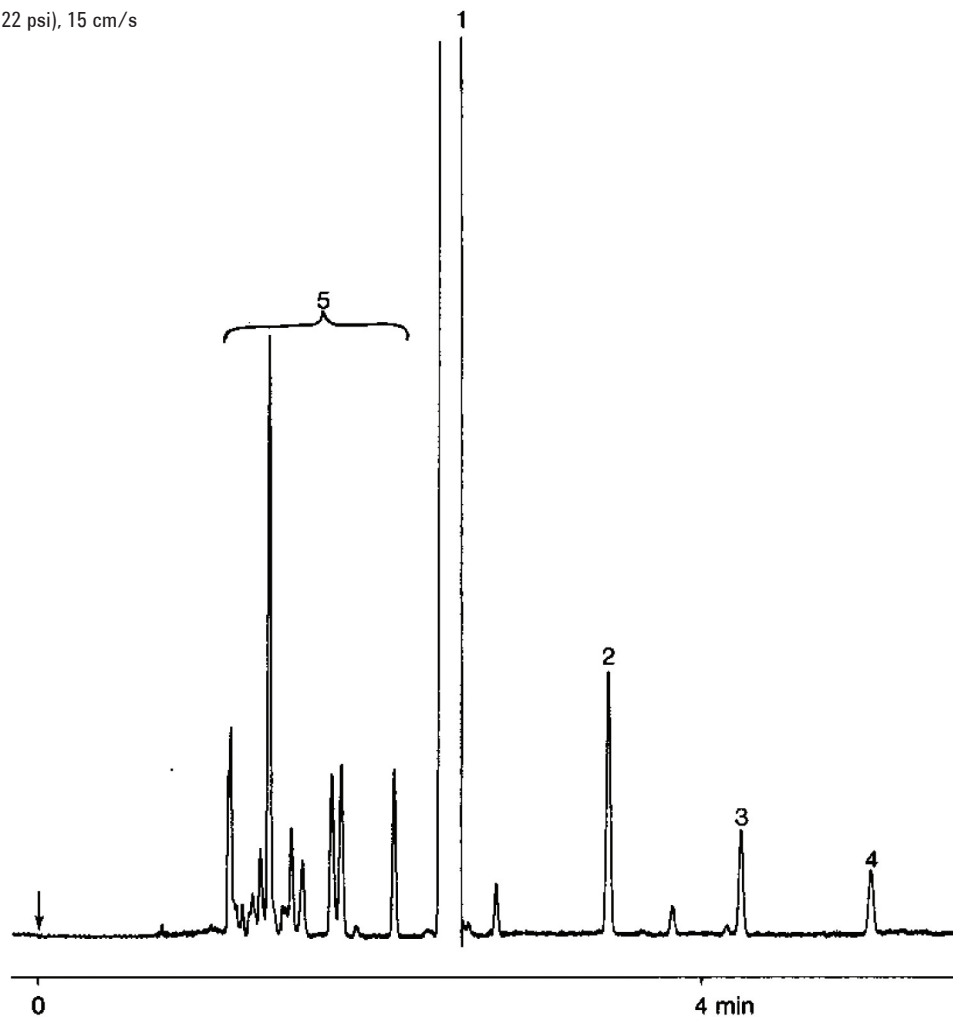
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## Conditions

Technique : GC-capillary  
Column : Agilent CP-Wax 57 CB, 0.10 mm x 10 m fused silica  
WCOT CP-Wax 57 CB (0.2  $\mu$ m) (Custom-made)  
Temperature : 50 °C (2 min)  $\rightarrow$  200 °C, 5 °C/min  
Carrier Gas : N<sub>2</sub>, 150 kPa (1.5 bar, 22 psi), 15 cm/s  
Injector : Splitter, 40 mL/min  
T = 225 °C  
Detector : FID, 2 x 10<sup>-12</sup> Afs  
T = 225 °C

## Peak identification

1. methylisobutylketone
2. isomesityloxide
3. mesityloxide
4. methylisobutylcarbinol
5. C<sub>9</sub>-hydrocarbons



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Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A00095



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