



C₂-C₃ hydrocarbons

Analysis of hydrocarbons in air

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

GC/MS analysis of C₂ to C₃ hydrocarbons in air is achieved in 5.5 minutes with an Agilent CarboBOND column.



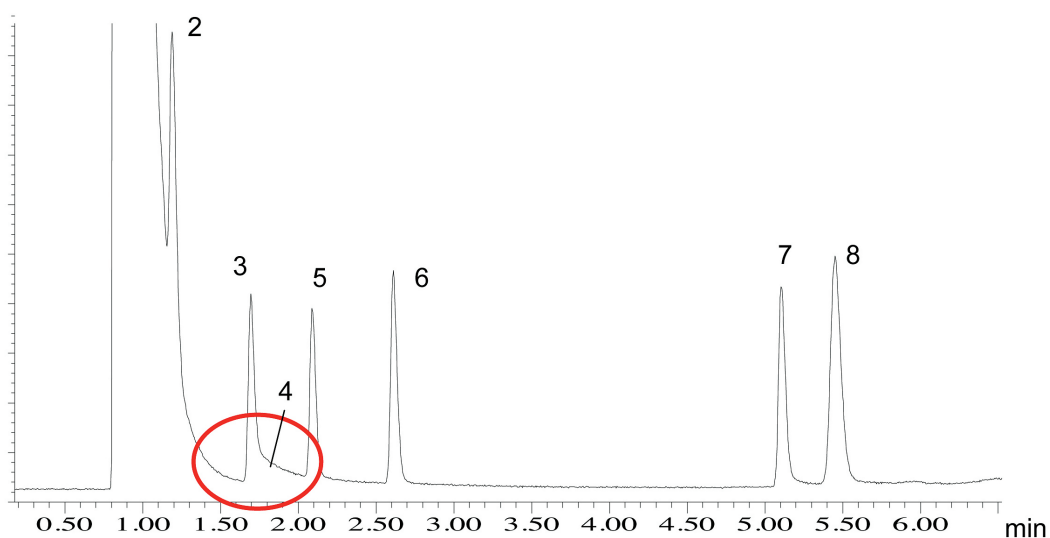
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Conditions

Technique : GC
Column : Agilent CarboBOND, 0.53 mm x 25 m fused silica
(df = 10 µm) (Part no. CP7374)
connected with 0.1 mm x 20 cm methyl deactivated
fused silica at inlet
Temperature : 80 °C (1 min), → 300 °C, 25 °C/min
Carrier Gas : Helium, 20 kPa
Injector : Split, 10:1
Detector : MS
Sample Size : 0.5 mL
Concentration Range : standard with approx. 10 ppm impurities
Matrix : air

Peak identification

1. air
2. carbon dioxide
3. acetylene
4. water
5. ethylene
6. ethane
7. propylene
8. propane



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This information is subject to change without notice.

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