



Oxygenates, C₁ - C₇

Application Note

Energy & Fuels

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography using an Agilent CP-Wax 52 CB column separates 27 C₁ to C₇ oxygenated compounds in a hydrocarbon matrix in 32 minutes.



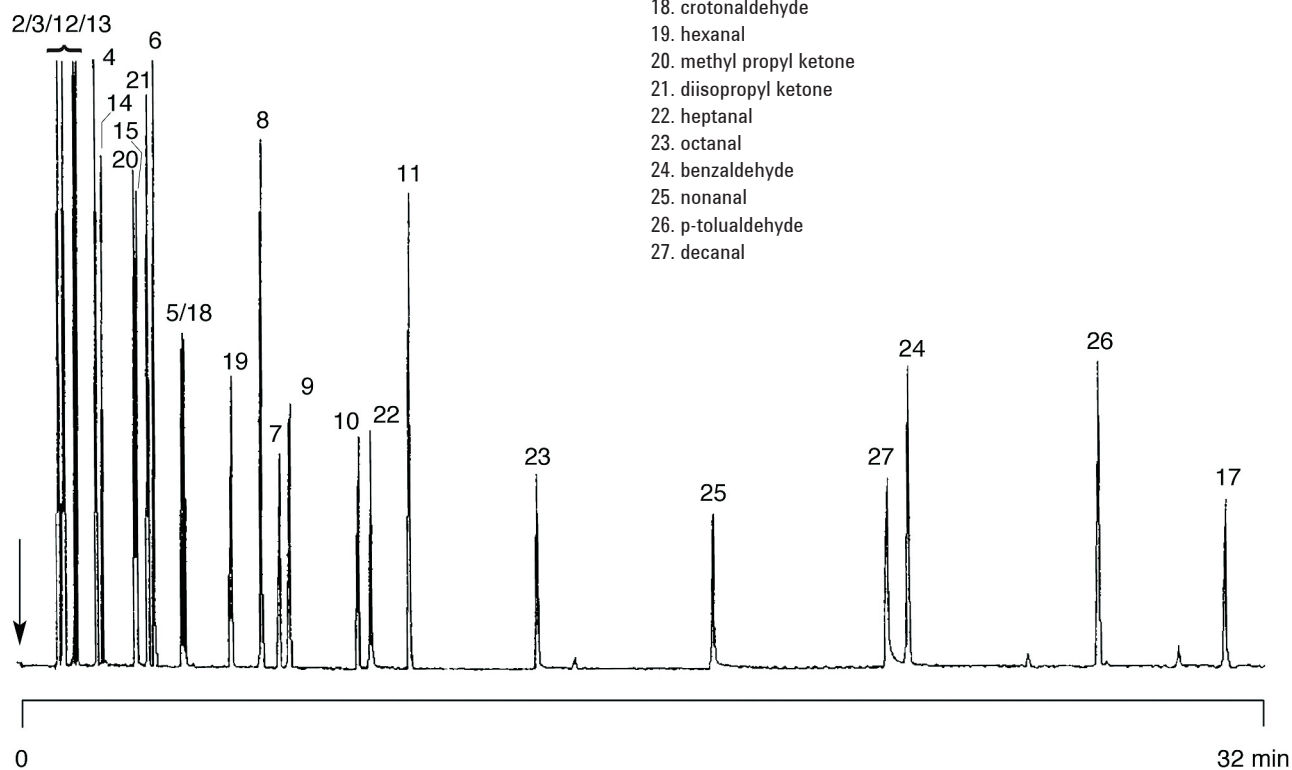
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Conditions

Technique : GC-capillary
Column : Agilent CP-Wax 52 CB, 0.25 mm x 25 m fused silica
WCOT (df = 0.2 µm) (Part no. CP7713)
Temperature : 30 °C (3 min) → 250 °C, 3 °C/min
Carrier Gas : He, 60 kPa (60 bar, 8.4 psi)
Injector : Split,
T = 150 °C
Detector : FID
T = 300 °C
Concentration Range : 5 - 10 ng per component
Courtesy : U. Felix, K. Dettmer, W. Engewald
Universität Leipzig, Institut für Analytische Chemie

Peak identification

1. hexane
2. heptane
3. octane
4. nonane
5. toluene
6. decane
7. ethylbenzene
8. undecane
9. p-xylene
10. o-xylene
11. dodecane
12. methylpropanal
13. acetone
14. 2-methylbutanal
15. pentanal
16. ethyl methyl ketone
17. naphthalene
18. crotonaldehyde
19. hexanal
20. methyl propyl ketone
21. diisopropyl ketone
22. heptanal
23. octanal
24. benzaldehyde
25. nonanal
26. p-tolualdehyde
27. decanal



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This information is subject to change without notice.

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Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A01616



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