Ketones

Separation of several ketones on a wide-bore fused silica column

Application Note

Energy & Fuels

Authors

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Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates five ketones in seven minutes.

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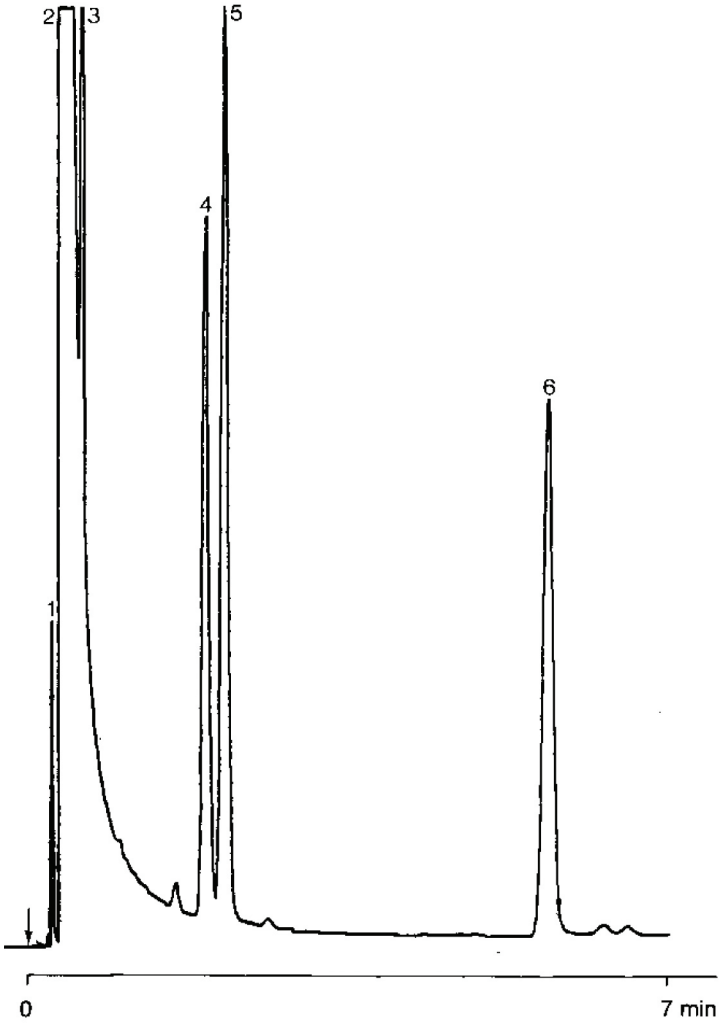
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Sil 5 CB, 0.53 mm x 10 m fused silica WCOT CP-Sil 5 CB (5.0 µm) (Part no. CP7645)
Temperature	:	50 °C → 200 °C, 5 °C/min
Carrier Gas	:	N_2, 10 kPa (0.1 bar), 52 cm/s
Injector	:	direct T = 250 °C
Detector	:	FID, 100 x 10^{-12} Afs T = 275 °C
Sample Size	:	0.2 µL
Concentration Range	:	acetone

Peak identification

1. methanol
2. acetone
3. 2,3-butanedione (diacetyl)
4. acetylacetone
5. mesityloxide (4-methyl-3-penten-2-one)
6. methylpyrrolidone



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