Volatile ketones and alcohols

Separation of volatile ketones and alcohols in water

Application Note

Environmental

Authors

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Introduction

Gas chromatography with an Agilent CP-Sil 5 CB column separates nine volatile ketones and alcohols in water in 18 minutes.

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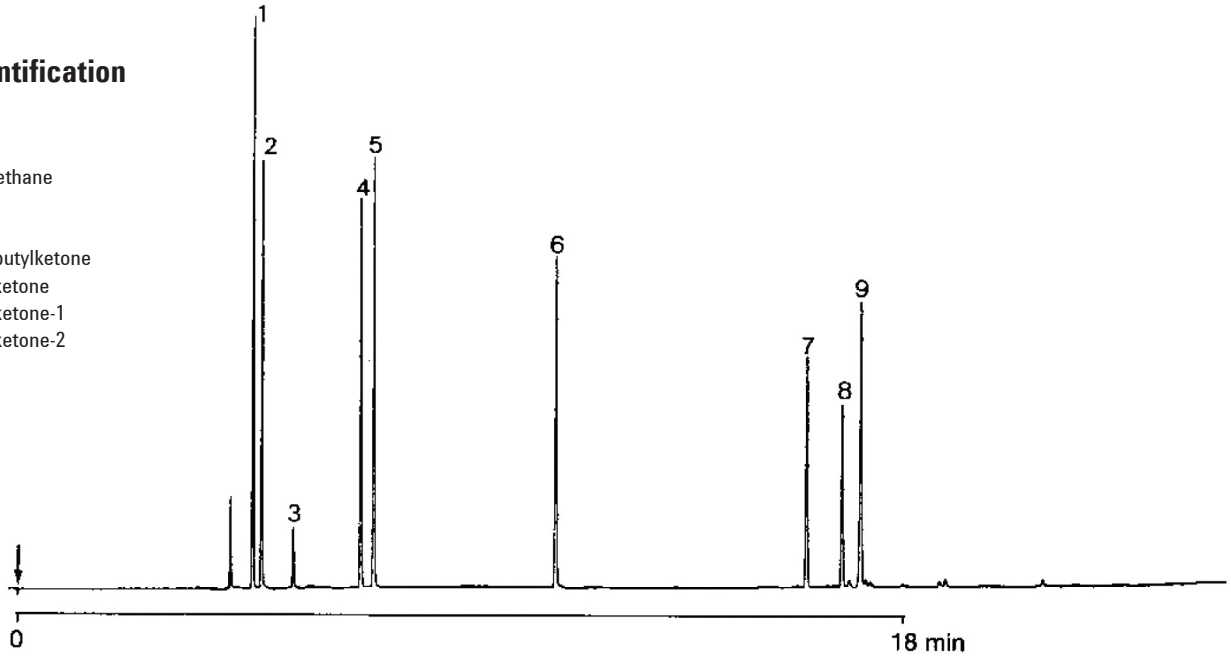
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Sil 5 CB, 0.32 mm x 50 m fused silica WCOT CP-Sil 5 CB (1.2 µm) (Part no. CP7770)
Temperature	:	30 °C → 250 °C, 10 °C/min
Carrier Gas	:	He, 100 kPa (1.0 bar, 14.5 psi), 23 cm/s
Injector	:	Splitter, 60 mL/min T = 250 °C
Detector	:	FID, 32 x 10^{-12} Afs T = 275 °C
Sample Size	:	0.1 µL
Concentration Range	:	100 ppm/component
Solvent Sample	:	water

Peak identification

1. acetone
2. 2-propanol
3. dichloromethane
4. butanone
5. 2-butanol
6. methylisobutylketone
7. ethylamylketone
8. diisobutylketone-1
9. diisobutylketone-2



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