Solvents

Application Note

Materials Testing & Research

Authors

Agilent Technologies, Inc.

Introduction

The Agilent FactorFour VF-Xms bonded phase is a new phase with an optimized stabilization structure. Combined with fused silica surface treatment a temperature stability of at least 340 °C is obtained which results in very low bleed. Accurate quantification of trace components as well as fast stabilization and reduced contamination of detection systems (such as ms) are obtained. Due to the higher arylene content the column will be a lttle more polar then the VF-5ms phase.

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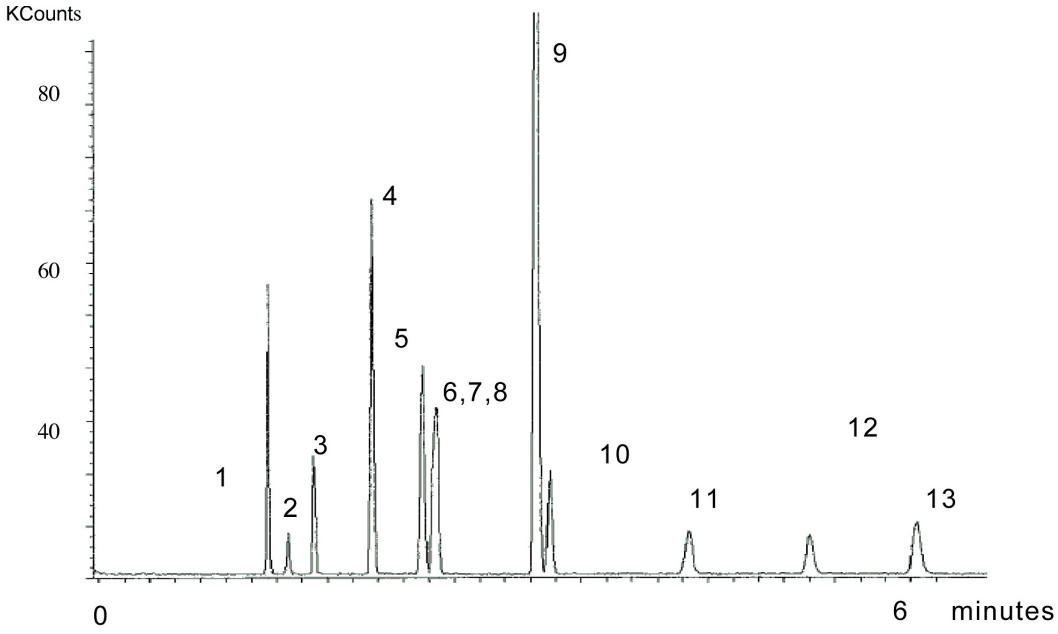
Conditions

Technique	:	GC
Column	:	Agilent VF-Xms, 0.25 mm x 30 m fused silica (df = 0.10 µm) (Part no. CP8808)
Temperature	:	35 °C
Carrier Gas	:	Helium, 60 kPa
Injector	:	Split, 1:100
Detector	:	MS, Total ion current
Sample Size	:	10 µL headspace
Concentration Range	:	10 ng on the column
Solvent Sample	:	Neat

Courtesy : J. Peene, Agilent R&D laboratories, Middelburg, The Netherlands

Peak identification

1. air
2. water
3. methanol
4. ethanol
5. pentane
6. acetone
7. acetonitrile
8. methylether
9. dichloromethane
10. carbon disulfide
11. hexane
12. ethylacetate
13. tetrahydrofurane



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