



Analysis of chlorinated pesticides

Application Note

Environmental

Authors

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Introduction

GC with an Agilent VF-Xms column separates 16 chlorinated pesticides in under ten minutes.



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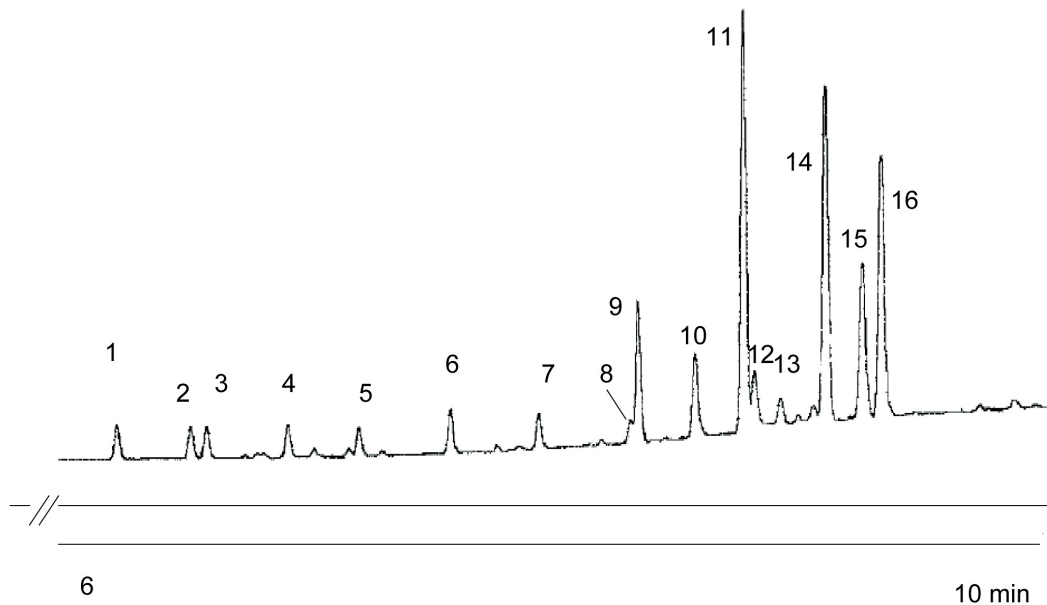
Conditions

Technique : GC
Column : Agilent VF-Xms, 0.25 mm x 30 m fused silica
(df = 0.25 µm) (Part no. CP8806)
Temperature : 110 °C, 0.5 min → 325 °C, 25 °C/min, 5 min, 285 °C
Carrier Gas : Hydrogen, 60 kPa
Injector : Split, 1 µL; 1:20
Detector : FID
Sample Size : 1 µL
Concentration Range : ca. 5 ng per component on the column
Solvent Sample : Hexane

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

Peak identification

1. alpha-BHC
2. beta-BHC
3. gamma-BHC
4. delta-BHC
5. heptachlor
6. aldrin
7. heptachlor epoxide
8. endosulfan alpha
9. 4,4'-DDE (p,p'-DDE)
10. dieldrin
11. 4,4'-DDD (p,p'-DDD)
12. endrin
13. endosulfan II
14. 4,4'-DDT (p,p'-DDT)
15. endrin aldehyde
16. endosulfan sulfate



Note: gamma-BHC elutes after beta-BHC

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This information is subject to change without notice.

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