Pesticides

Analysis of organochlorine in pesticides in water

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Sil 19 CB column separates 30 organochlorine pesticides in 59 minutes.

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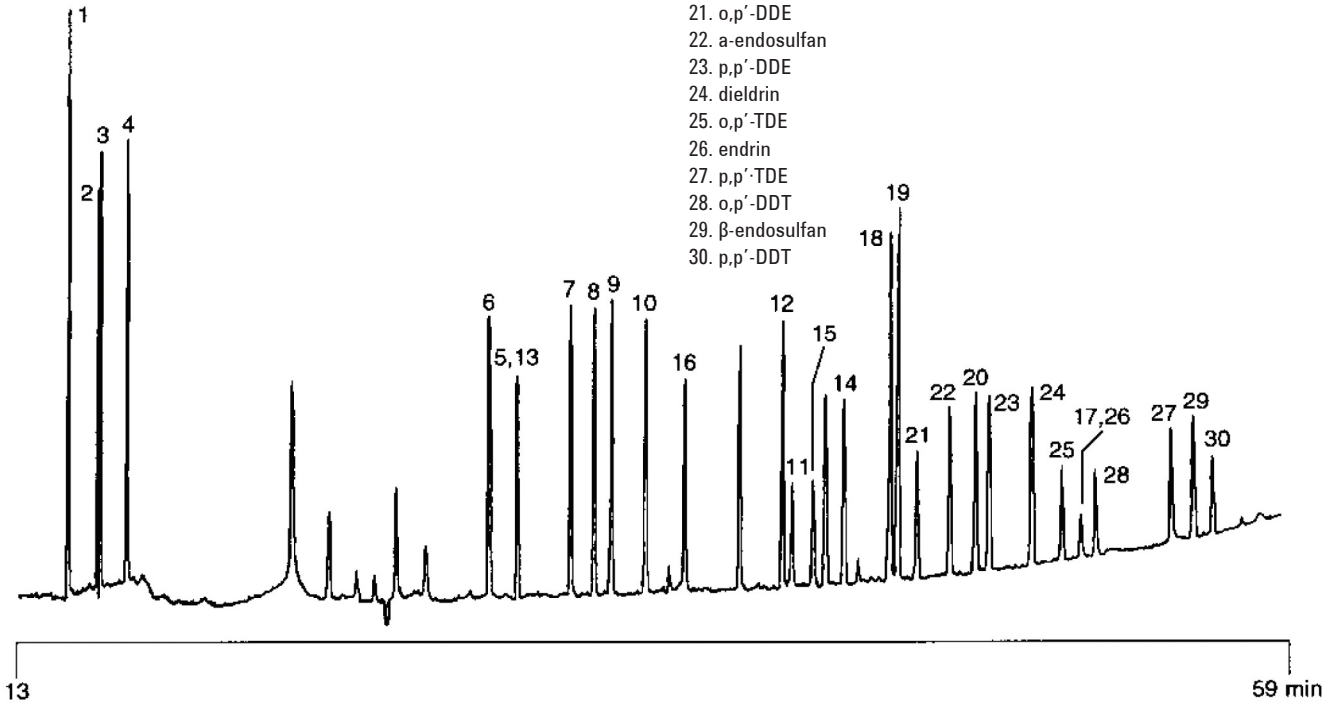
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Sil 19 CB for pesticides, 0.25 mm x 50 m fused silica WCOT CP-Sil 19 CB (df = 0.2 µm) (Part no. CP7407)
Temperature	:	45 °C (4 min) ⟶ 150 °C, 15 °C/min
Carrier Gas	:	He
Injector	:	On-column
Detector	:	ECD T = 300 °C
Courtesy	:	Mr W. Civil, NRA, Exeter, UK

Peak identification

1. 1,3,5-TCB
2. HCBD
3. 1,2,4-TCB
4. 1,2,3-TCB
5. trifluralin
6. HCB
7. α-HCB
8. pentachloronitrobenzene (I.S.)
9. triallale
10. γ-HCH
11. β-HCH
12. vinclozolin
13. heptachlor
14. δ-HCH
15. ϵ-HCH
16. aldrin
17. isodrin
18. cis-HCE
19. trans-HCE
20. cis-chlordane
21. o,p′-DDE
22. a-endosulfan
23. p,p′-DDE
24. dieldrin
25. o,p′-TDE
26. endrin
27. p,p′-TDE
28. o,p′-DDT
29. β-endosulfan
30. p,p′-DDT



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