



Pesticides and PCBs

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Sil 8 CB for Pesticides column separates 27 chloropesticides and polychlorinated biphenyls in 22 minutes.



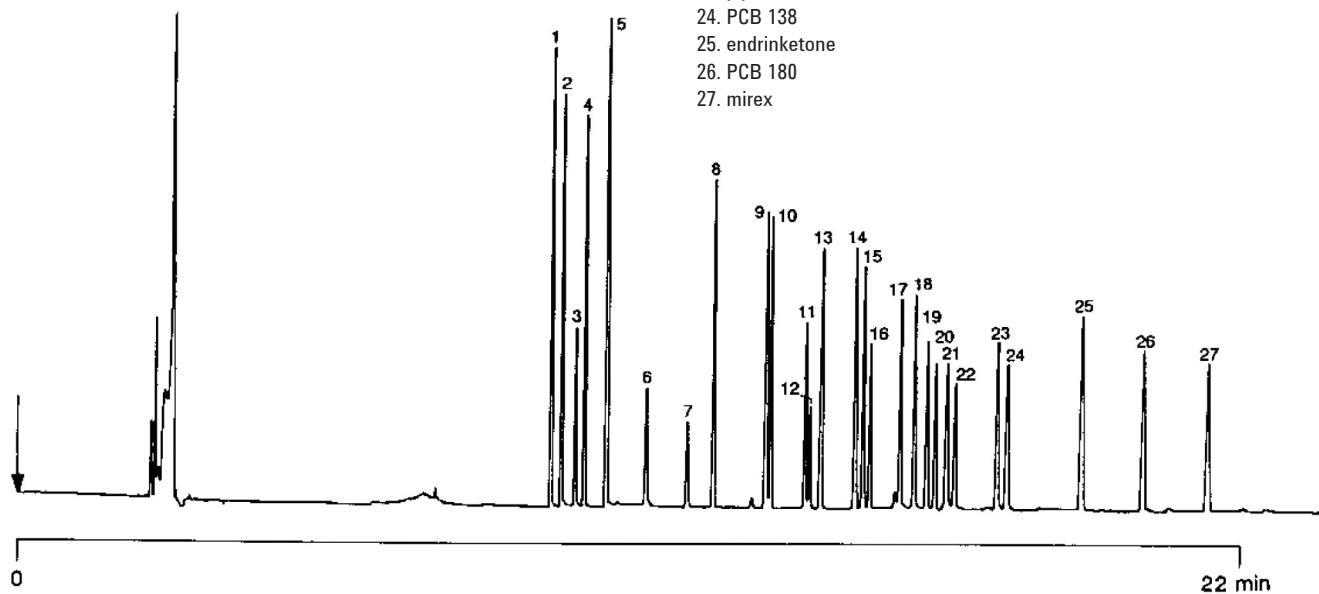
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 8 CB, 0.25 mm x 50 m fused silica
WCOT CP-Sil 8 CB for pesticides (df = 0.12 µm)
(Part no. CP7481)
Temperature : 80 °C → 220 °C, 20 °C/min → 270 °C, 4 °C/min
Carrier Gas : H₂, 125 kPa (1.25 bar, 17.9 psi)
Injector : On-column
Detector : ECD
T = 300°C
Sample Size : 1 µL
Concentration Range : 10 pg/µL per compound
Courtesy : Mr Lembacher, HIPPIE KG,
Pfaffenhoven, Germany

Peak identification

1. α-HCH
2. HCB
3. β-HCH
4. γ-HCH (lindane)
5. δ-HCH
6. PCB 28
7. PCB 52
8. aldrin
9. heptachlorepoxide
10. chlorbicyclen (I.S.)
11. o,p'-DDE
12. PCB 101
13. α-endosulphan
14. p,p'-DDE
15. dieldrin
16. o,p'-DDD
17. endrin
18. β-endosulphan
19. p,p'-DDD
20. o,p'-DDT
21. endrinaldehyde
22. PCB 153
23. p,p'-DDT
24. PCB 138
25. endrinetone
26. PCB 180
27. mirex



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This information is subject to change without notice.

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