

Pesticides and PCBs

Analysis of chloro- and sulfur pesticides, and PCBs

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Sil 8 CB for Pesticides column separates ten chloro- and sulfur pesticides and polychlorinated biphenyls in 18 minutes.



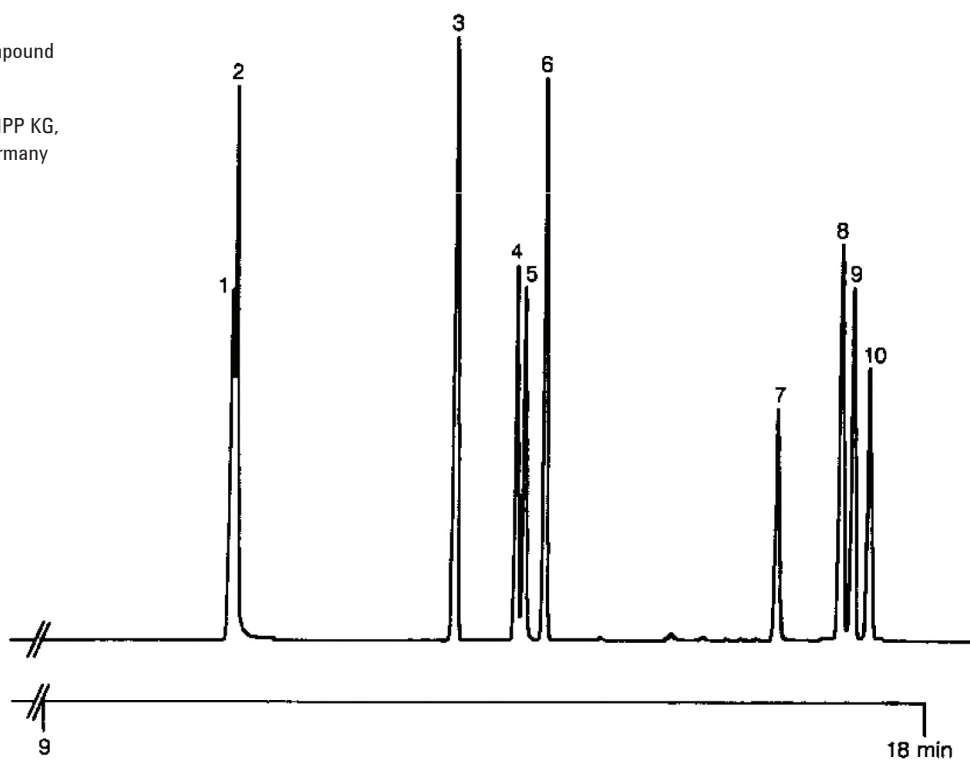
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Conditions

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 (0 min) → 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 : 50 pg/µL per compound
Courtesy : Mr Lembacher, HIPPO KG,
Pfaffenhoven, Germany

Peak identification

1. PCB 31
2. PCB 28
3. chlorbicyclen
4. o,p'-DDE
5. PCB 101
6. a-endosulphan
7. PCB 153
8. endosulphan sulphate
9. p,p'-DDT
10. PCB 138



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This information is subject to change without notice.

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