Pesticides and PCBs
Analysis of chloro- and sulfur pesticides, and PCBs

Application Note

Environmental

Authors
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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.
**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, HIPP 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

[Graph showing peak identification]