



## **Pesticides**

Fast separation of pesticides using a short 0.15 mm capillary

### **Application Note**

Environmental

#### **Authors**

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#### **Introduction**

Fast GC separation of 15 pesticides, using a short 0.15 mm capillary, is achieved in 13 minutes with an Agilent CP-Sil 5 CB column.



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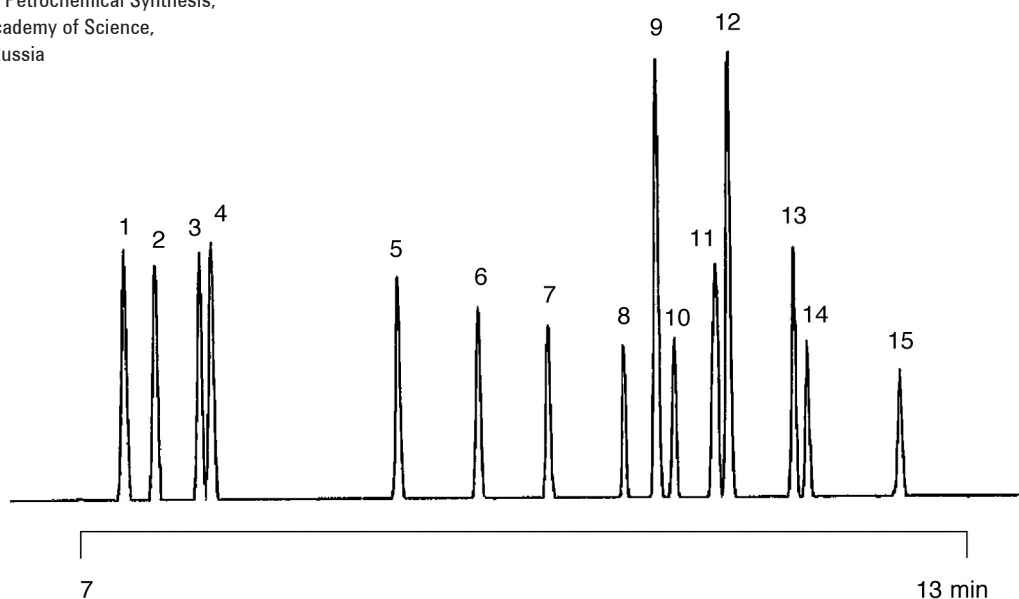
## Conditions

Technique : GC-capillary  
Column : Agilent CP-Sil 5 CB, 0.15 mm x 5 m fused silica  
WCOT (df = 2 µm) Part no. CP7682 (as 10 meter)  
Temperature : 110 °C (2.5 min) → 190 °C, 30 °C/min:  
190 °C (0 min) → 200 °C, 5 °C/min:  
200 °C (min) → 290 °C, 15 °C/min  
Carrier Gas : He, 0.7 mL/min, 70 kPa {0.7 bar, 9 psi}  
Injector : Splitless  
T = 250 °C  
Detector : MS  
T<sub>interface</sub> = 280 °C  
Sample Size : 1.0 µL  
Concentration Range : 1 ppm  
Solvent Sample : hexane

Courtesy : Victor Berezkin and Aleksey B. Lapin,  
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## Peak identification

1. α-hexachloro cyclohexane
2. β-hexachloro cyclohexane
3. γ-hexachloro cyclohexane
4. δ-hexachloro cyclohexane
5. heptachlor
6. aldrin
7. heptachlor epoxide
8. α-endosulfan
9. p,p'-DDE
10. dieldrin
11. β-endosulfan
12. p,p'-DDD
13. endosulfan sulfate
14. p,p'-DDT
15. methoxychlor



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