



Pesticides and herbicides

Analysis of pesticides and herbicides according to EPA 507

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Sil 8 CB column separates 19 pesticides and herbicides according to EPA 507 in 23 minutes.



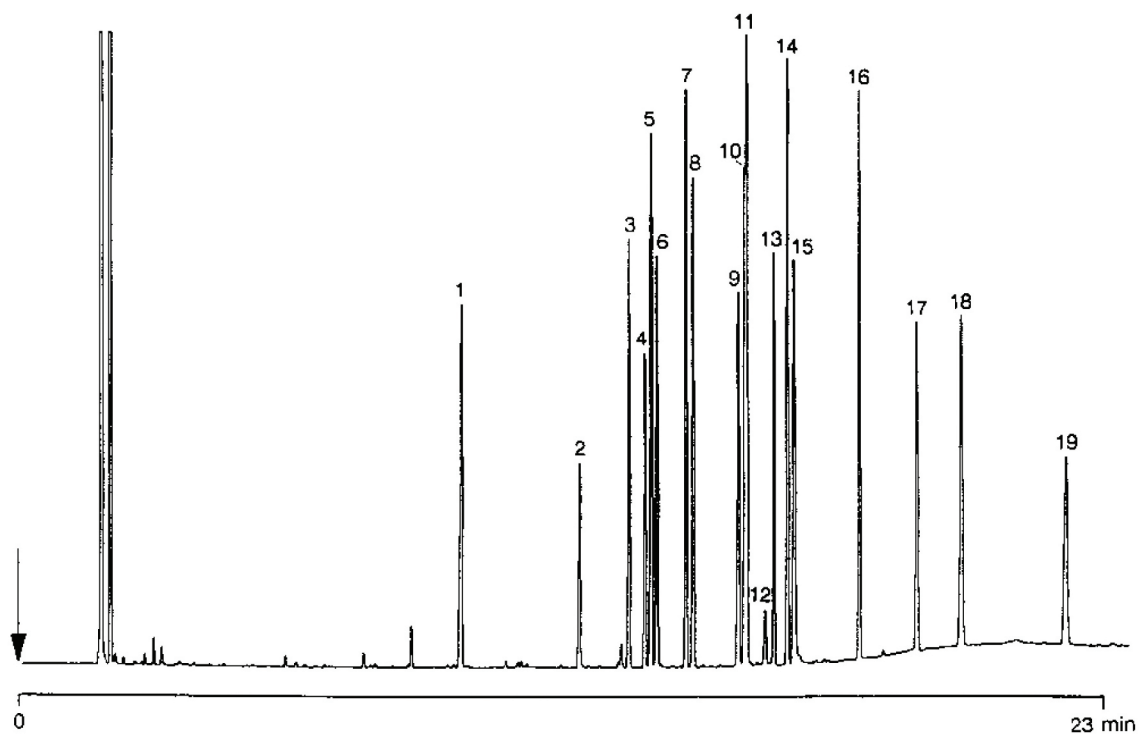
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Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 8 CB, 0.25 mm x 25 m fused silica
WCOT CP-Sil 8 CB (df = 0.25 µm)
(Part no. CP7451)
Temperature : 100 °C (2 min) → 270 °C, 10 °C/min
Carrier Gas : H₂, 40 kPa (0.4 bar, 5.7 psi)
Injector : Split, 100 mL/min
T = 275 °C
Detector : FID
T = 300 °C

Peak identification

1. mevinphos
2. demeton-o
3. phorate
4. demeton-s
5. simazine
6. atrazine
7. diazinon
8. disulfoton
9. methyl parathion
10. alachlor
11. ametryn
12. bromacil
13. malathion
14. ethyl parathion
15. bentazon
16. phenamiphos
17. ethion
18. hexazione
19. azinphos methyl



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