



Fungicides

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Sil 13 CB column separates 39 fungicides in 30 minutes.



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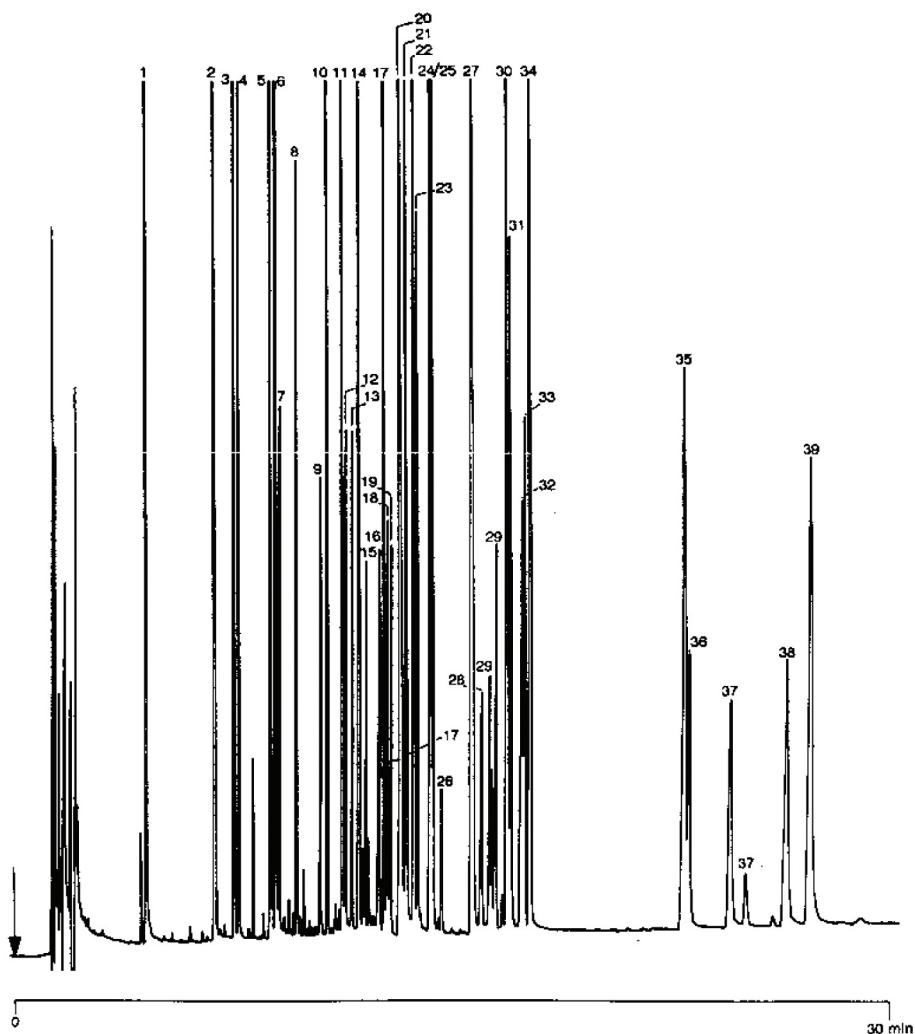
Conditions

Technique : GC-capillary
 Column : Agilent CP-Sil 13 CB, 0.32 mm x 50 m fused silica
 WCOT CP-Sil 13 CB (df = 0.4 µm) (Part no. CP7937)
 Temperature : 80 °C → 270 °C, 20 °C/min; 270 °C (20.5 min)
 Carrier Gas : H₂, 100 kPa (1.0 bar, 14.5 psi)
 Injector : On-column
 Detector : NPD
 T = 300 °C
 Sample Size : 1 µL
 Concentration Range : 0.5 - 10 ng/µL

Courtesy : Mr Lembacher,
 Hipp KG, Pfaffenhofen,
 Germany

Peak identification Concentration range (ng/µL)

1. triethyl phosphate	0.5
2. propamocarb	5
3. etridiazole	5
4. prothiocarb	5
5. tributyl phosphate	0.5
6. azobenzene	5
7. diphenylamine	5
8. ethoxyquin	5
9. fenfuram	5
10. chlorothalonil	5
11. tolclophos-methyl	0.5
12. fenpropimorph	5
13. nitrothal-isopropyl	10
14. triadimefon	5
15. methfuroxam	10
16. dinobuton	5
17. triadimenole α:β = 86:14	5
18. tolyfluanide	5
19. procymidon	5
20. thiabendazole	5
21. quinomethionate	5
22. imazalit	5
23. hexaconazole	5
24. dichlobutrazole	5
25. myclobutanil	5
26. carboxin	5
27. triaminphos	0.5
28. thioquinox	5
29. propioconazole	5
30. edifenphos	0.5
31. terbuconazole	5
32. nuarimole	5
33. fluoirimazole	5
34. triphenyl phosphate	1
35. pyrazophos	1
36. fenarimole	5
37. bitertanole α:β = 79:17	5
38. prochloraz	5
39. TCP (triclesyl phosphate)	1



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This information is subject to change without notice.

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