



# Polar compounds, pesticides

## Application Note

Environmental

### Authors

Agilent Technologies, Inc.

### Introduction

Gas chromatography using an Agilent CP-Sil 5 CB Low Bleed MS column separates 27 polar pesticides in 25 minutes.



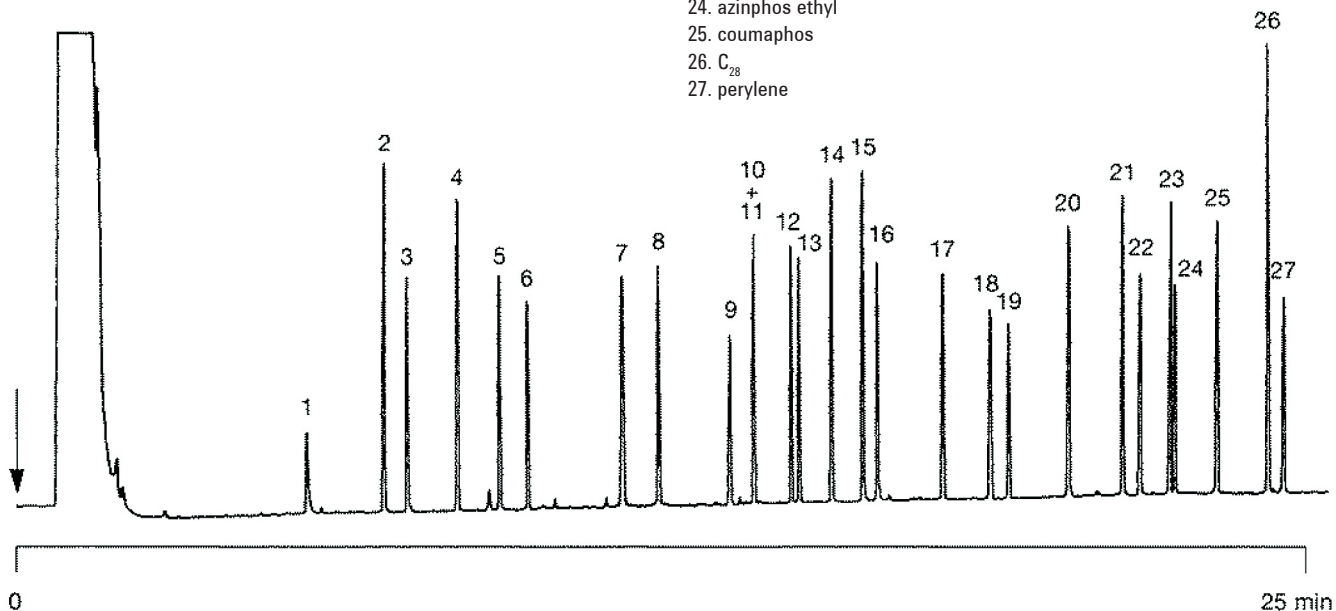
**Agilent Technologies**

## Conditions

Technique : GC-capillary  
Column : Agilent CP-Sil 5 CB Low Bleed/MS, 0.25 mm x 25 m,  
fused silica WCOT CP-Sil 5 CB Low Bleed/MS  
(df = 0.12 µm) (Part no. CP7840)  
Temperature : 40 °C (1 min) → 300 °C, 10 °C/min; 300 °C (5 min)  
Carrier Gas : He, 80 kPa (0.8 bar, 11.4 psi)  
Injector : PTV (30 °C → 340 °C, 3 °C/min), Split, 1;40  
Detector : FID, T = 320 °C  
Sample Size : 3 µL  
Concentration Range : 5-10 ppm  
Solvent Sample : ethyl acetate  
  
Courtesy : Hans-Gerd Janssen and Hans Mol,  
Technological University Eindhoven,  
Eindhoven, the Netherlands

## Peak identification

1. 1-octanol
2. naphthalene
3. benzothiazole
4. indole
5. nicotine
6. 1,4-dinitrobenzene
7. pentadecane
8. diethyl phthalate
9. trifluralin
10. dimethoate
11. atrazine
12. diazinon
13. caffeine
14. methyl parathion
15. fenitrothion
16. cyanazine
17. vamidothion
18. dieldrin
19. endrin
20. p,p'-DDT
21. methoxychlor
22. azinphos methyl
23. mirex
24. azinphos ethyl
25. coumaphos
26. C<sub>28</sub>
27. perylene



[www.agilent.com/chem](http://www.agilent.com/chem)

This information is subject to change without notice.

© Agilent Technologies, Inc. 2011

Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A01352



**Agilent Technologies**