



Chlorophenols as acetic acid phenol esters

Determination of chlorophenols in water and soil

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Determination of 18 chlorophenols in water and soil is straightforward on an Agilent VF-5ms column in under 13 minutes.



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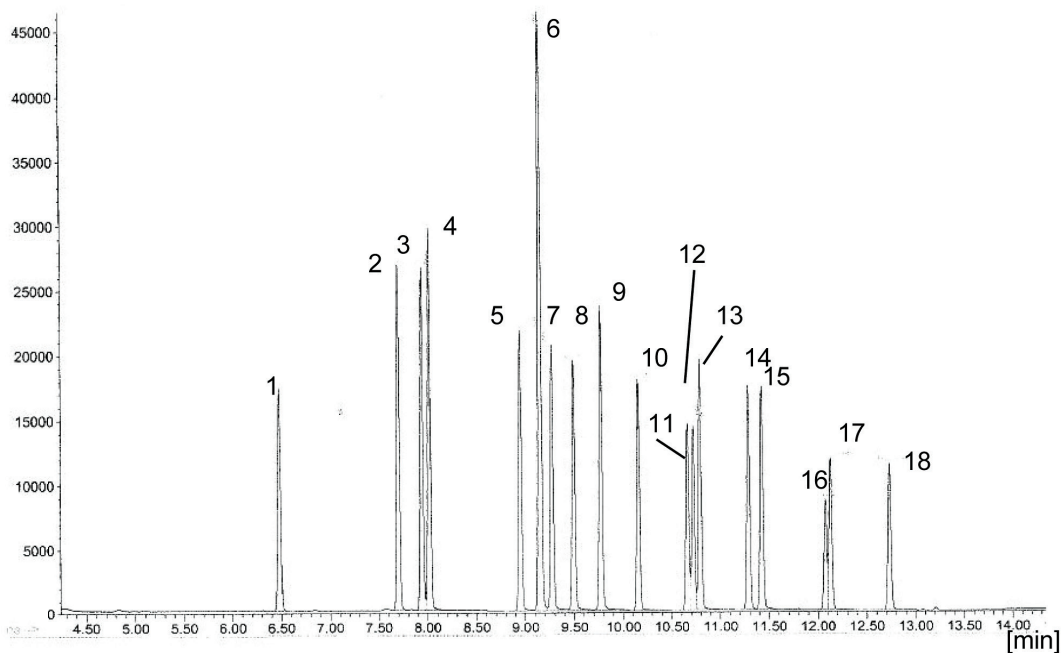
Conditions

Technique : GC/MS
Column : Agilent VF-5ms, 0.32 mm x 60 m fused silica
(film thickness = 0.25 μ m) (Part no. CP8961)
Temperature : 60 °C, 30 °C/min \rightarrow 300 °C
Carrier Gas : He, 80 kPa (0.8 bar, 5.7 psi)
Injection Technique : Splitless, Initial time : 1 min;
Split flow : 50 mL/min
Injection Temperature : 250 °C
Injection Volume : 2 μ L
Detector : MS
Detector Temperature : 280 °C
Sample Sample : isohexane
Concentration : Standard, 1 μ g/mL, derivatization with acetic acid
anhydride

Courtesy : Dr. Wessling, Laboratorien GmbH

Peak identification

1. phenol
2. 2-chlorophenol
3. 3-chlorophenol
4. 4-chlorophenol
5. 2,6-dichlorophenol
6. 2,4+2,5-dichlorophenol
7. 3,5-dichlorophenol
8. 2,3-dichlorophenol
9. 3,4-dichlorophenol
10. 2,4,6-trichlorophenol
11. 2,3,6-trichlorophenol
12. 2,3,5-trichlorophenol
13. 2,4,5-trichlorophenol
14. 2,3,4-trichlorophenol
15. 3,4,5-trichlorophenol
16. 2,3,5,6-tetrachlorophenol
17. 2,3,4,6-tetrachlorophenol
18. 2,3,4,5-tetrachlorophenol



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