



Phenols

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Phenols are analyzed by GC according to EPA 8040A using the stabilized 50% phenyl PDMS phase of Agilent VF-17ms.



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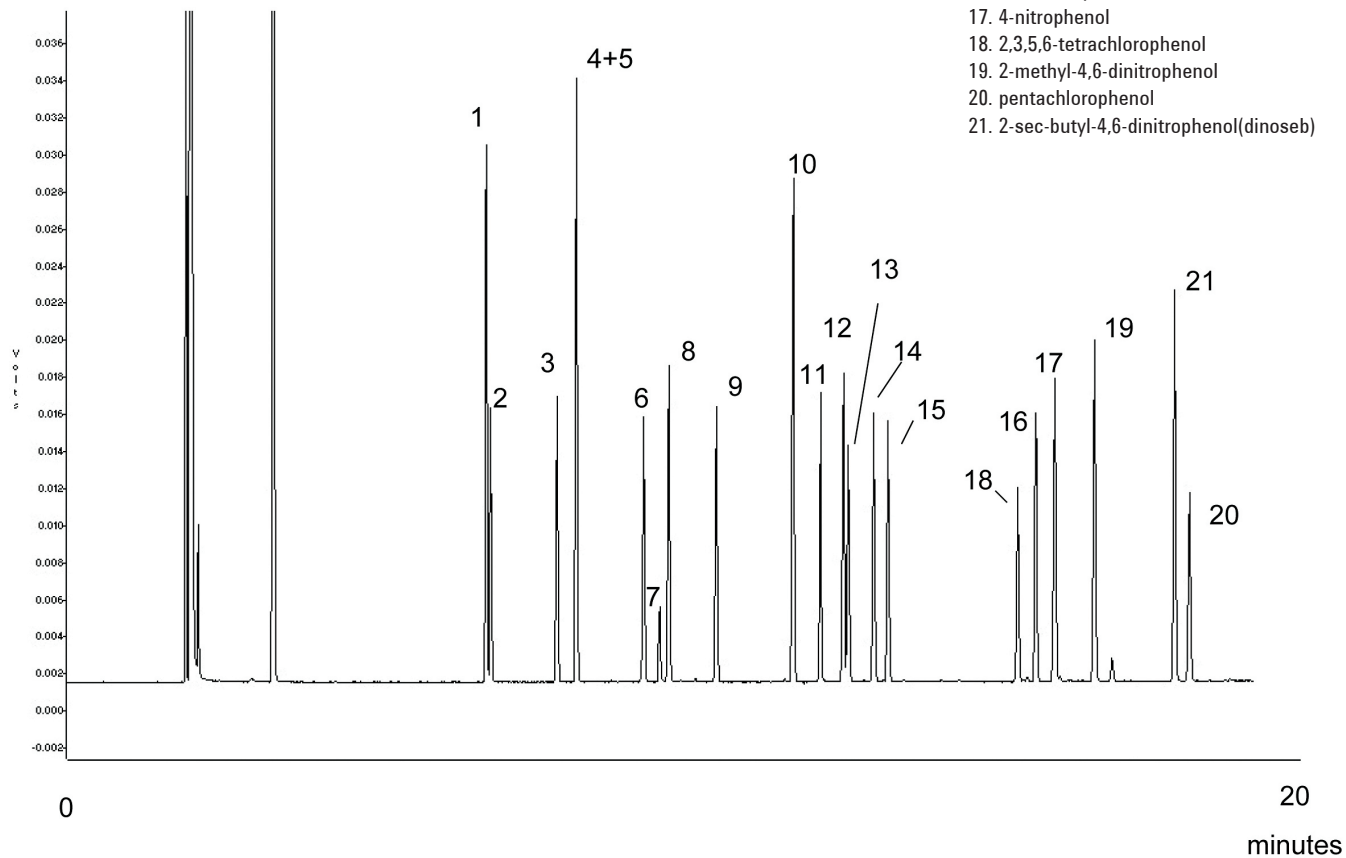
Conditions

Technique : GC
Column : Agilent VF-17ms, 0.25 mm x 30 m fused silica
(df = 0.25 µm) (Part No. CP8982)
Temperature : 50 °C + 10 °C/min → 300 °C
Carrier Gas : Helium, 70 kPa
Injector : Splitter, 1:100
Detector : FID
Sample Size : 1 µL
Concentration Range : 200 ug/mL

Courtesy : J. Peene, Agilent application laboratory,
Middelburg, The Netherlands

Peak identification

1. phenol
2. 2-chlorophenol
3. o-cresol
4. m-cresol
5. p-cresol
6. 2,4 dimethylphenol
7. 2-nitrophenol
8. 2,4-dichlorophenol
9. 2,6-dichlorophenol
10. 4-chloro-3-methylphenol
11. 2,3,5-trichlorophenol
12. 2,4,6-trichlorophenol
13. 2,4,5-trichlorophenol
14. 2,3,4-trichlorophenol
15. 2,3,6-trichlorophenol
16. 2,4-dinitrophenol
17. 4-nitrophenol
18. 2,3,5,6-tetrachlorophenol
19. 2-methyl-4,6-dinitrophenol
20. pentachlorophenol
21. 2-sec-butyl-4,6-dinitrophenol(dinoseb)



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