



# Phenols

## Application Note

Environmental

### Authors

Agilent Technologies, Inc.

### Introduction

GC separation of 12 phenols using an Agilent CP-Sil 19 CB column with FID is achieved in 15 minutes.



**Agilent Technologies**

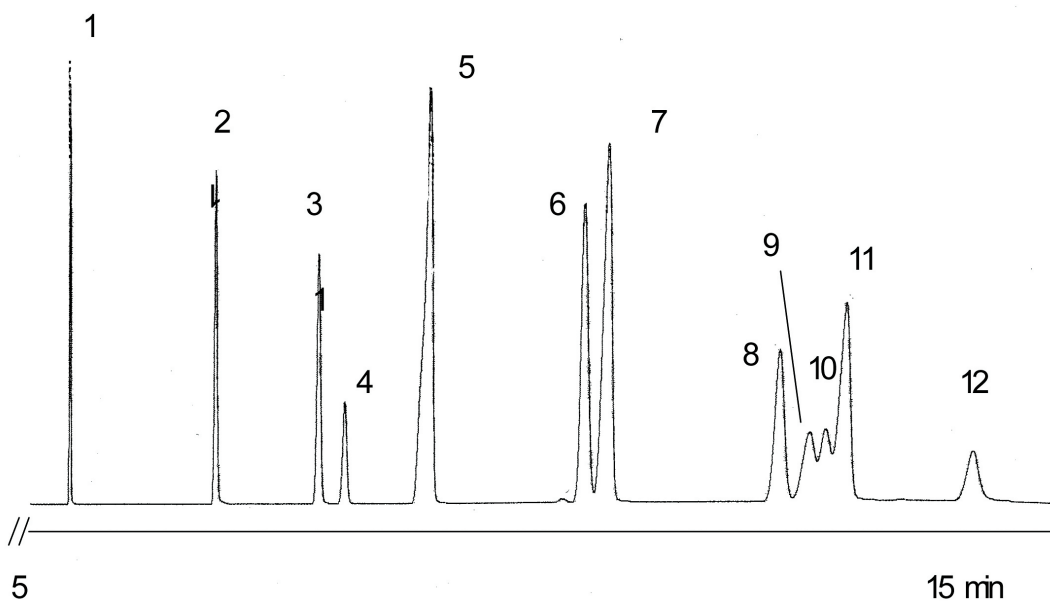
## Conditions

Technique : GC  
Column : Agilent CP-Sil 19 CB, 0.32 mm x 25 m fused silica  
(df = 0.4  $\mu$ m) (Part no: CP7829)  
Temperature : 80 °C  
Carrier Gas : H<sub>2</sub>, 70 kPa  
Injector : Split, 1:20; T = 200 °C  
Detector : FID  
T = 300 °C  
Sample Size : 1.0  $\mu$ L  
Concentration Range : approx: 2%  
Solvent Sample : acetone

Courtesy : Herbert Kaufmann, Bakelite AG, Germany

## Peak identification

1. phenetol
2. phenol
3. o-cresol
4. 2,6-xylenol
5. m/p-cresol
6. o-ethylphenol
7. 2,4/2,5-xylenol
8. 2,3-xylenol
9. 3,5-xylenol
10. p-ethylphenol
11. m-ethyl phenol
12. 3,4-xylenol



[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

A01953



**Agilent Technologies**