



# Phthalate esters according to EPA 8060

## Application Note

Environmental

### Authors

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### Introduction

Gas chromatography using an Agilent VF-Xms column separates 12 phthalate esters in 40 minutes using the EPA 8060 method.



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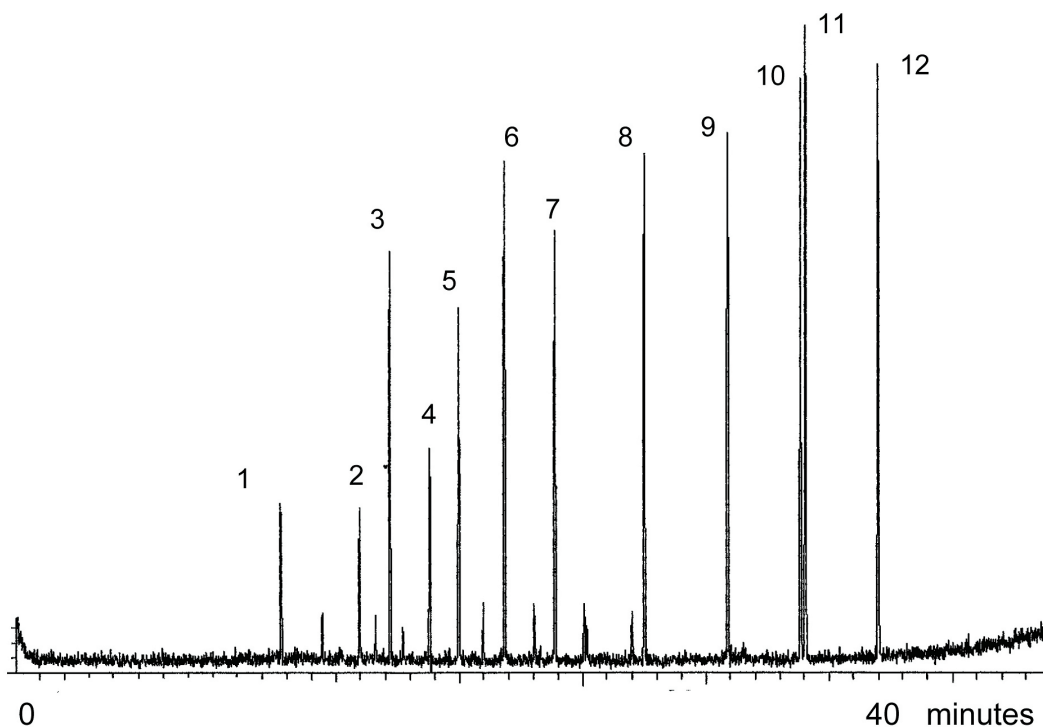
## Conditions

Technique : GC  
Column : Agilent VF-Xms, 0.25 mm x 30 m fused silica  
(df = 0.25 µm) (Part no. CP8806)  
Temperature : 100 °C → 340 °C, 5 °C/min  
Carrier Gas : Helium, 60 kPa  
Injector : Split, T = 275 °C  
Detector : MS  
Sample Size : 1 µL  
Concentration Range : ca. 10 ng per component on the column  
Solvent Sample : hexane

Courtesy : J. Peene, Agilent R&D laboratories, Middelburg,  
The Netherlands

## Peak identification

1. dimethyl phthalate
2. diethyl phthalate
3. diisopropyl phthalate
4. dipropyl phthalate
5. diisobutyl phthalate
6. dibutyl phthalate
7. dipentyl phthalate
8. dihexyl phthalate
9. dibutylbenzyl phthalate
10. diheptyl phthalate
11. bis(2-ethylhexyl)phthalate
12. dioctyl phthalate



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