Phthalate esters according to EPA 8060

Application Note

Environmental

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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.
**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-ethylhexyI)phthalate
12. dioctyl phthalate

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