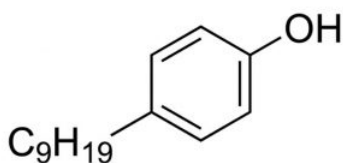
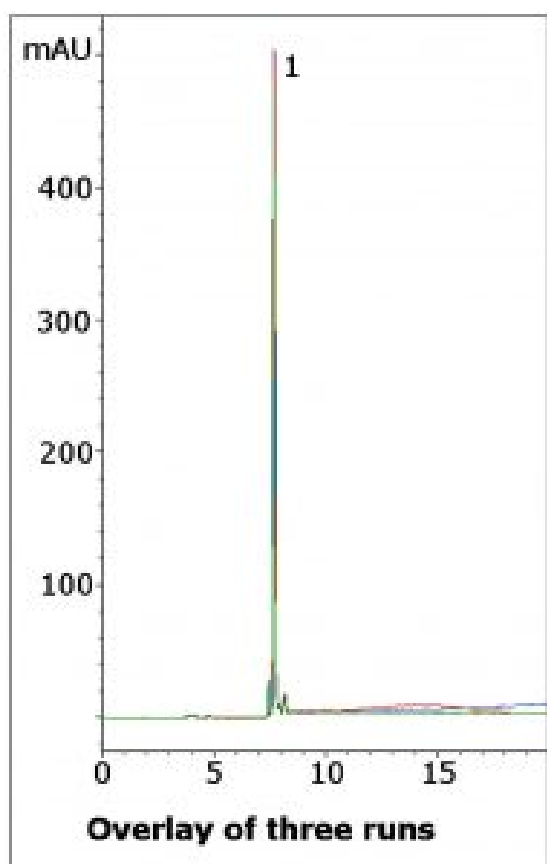


Nonylphenol Analyzed by HPLC - AppNote

Separation of Isomer Peaks

Nonylphenol is a very hydrophobic compound and is suitable for analysis by Normal Phase. It is produced commercially by Acid-catalyzed Alkylation of Phenol with a mixture of nonenes. Therefore a variety of product isomers are possible, with different branching of the C9 group and position of the chain on the ring.

Normal Phase HPLC is well-suited to isomer separations and in this method, separation was observed between the main peak and two smaller peaks. Three runs are shown to illustrate the repeatability, which is often a concern with Normal Phase Methods that use ordinary Silica Columns.



Nonylphenol

Main Peak:

Method Conditions

Column: Cogent Silica-C™, 4μm, 100Å

Catalog No.: 40000-10P

Dimensions: 4.6 x 100mm

Mobile Phase:

A: Ethyl Acetate

B: Hexane

Gradient:

| Time (minutes) | %B |
|----------------|-----|
| 0 | 100 |
| 4 | 100 |
| 19 | 90 |
| 20 | 100 |

Post Time: 3 minutes**Injection vol.:** 1µL**Flow rate:** 1.0mL / minute**Detection:** UV @ 277nm**Sample Preparation:** Nonylphenol reference standard dissolved in a Hexane diluent.**t₀:** 1.3 minutes

Note: Nonylphenols are used in synthesis as a starting material for various surfactants. They are subjected to Ethoxylation to produce Alkyl-Phenol Ethoxylates.

**Attachment****No 264 Nonylphenol HPLC Method pdf** 0.3 Mb [Download File](#)

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