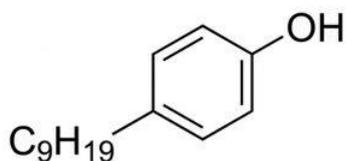
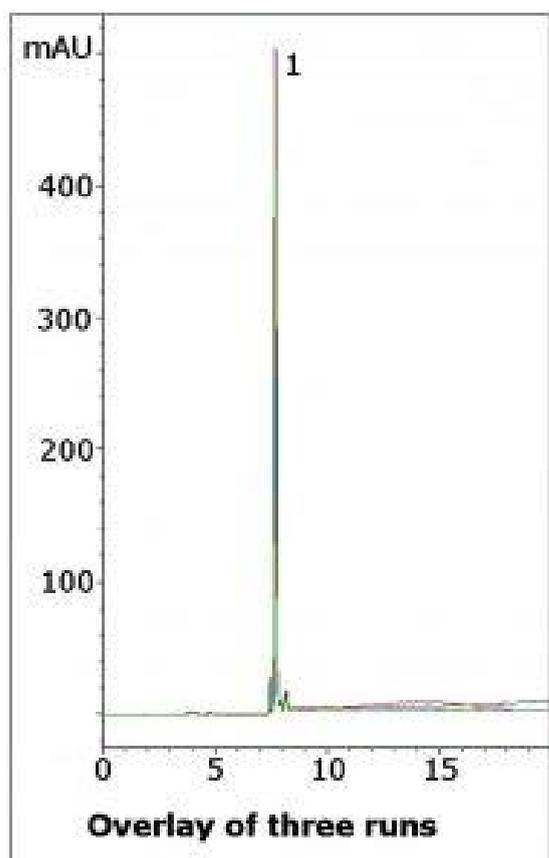


Nonylphenol Analyzed by HPLC - AppNote

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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