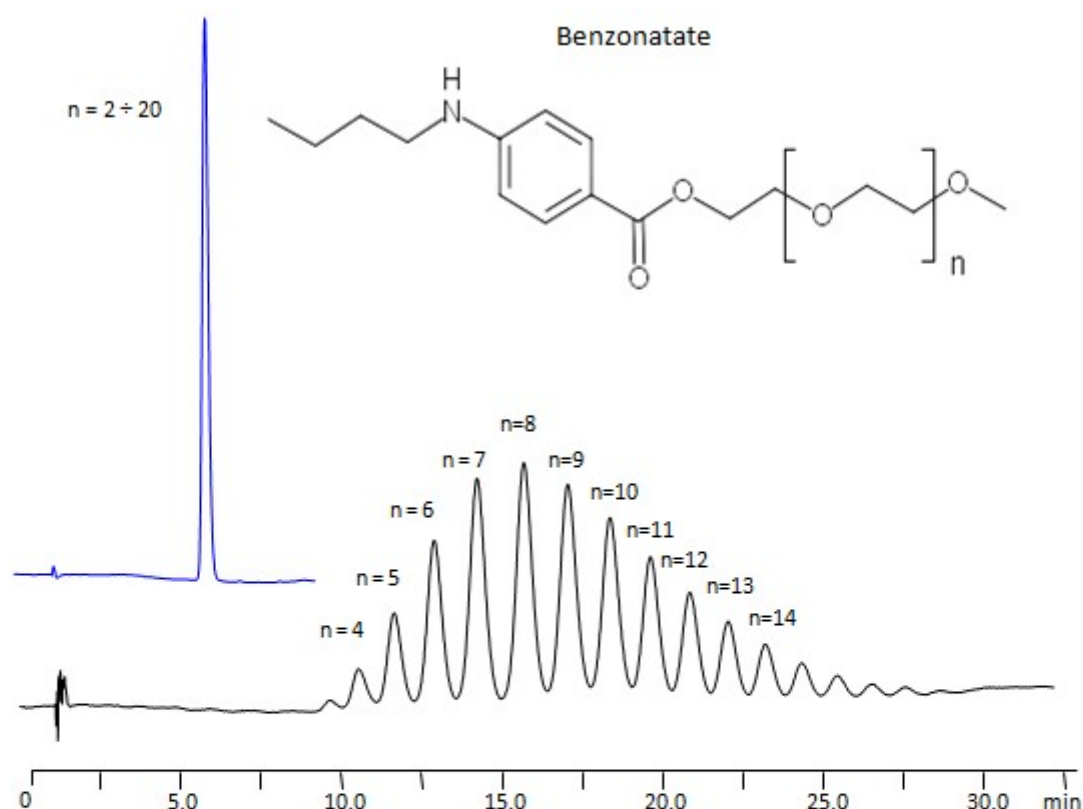


HPLC Method for Analysis of Benzonatate on Primesep P Column

<https://sielc.com/hplc-method-for-analysis-benzonatate-ps-p>

Chromatogram



Column:	Primesep P
Column size:	3.2 × 100 mm, 5 μm
Column part number:	P-3.2.100.0510
Mobile phase:	Gradient MeCN – 30-70%, 10 min, Gradient MeOH – 40-60%, 30 min
Buffer:	Ammonium formate pH 3.0 – 20 mM
Flow rate:	0.5 mL/min
Detection:	UV 310 nm

Description

· HPLC Method for Analysis of Benzonatate on Primesep B Column by SIELC Technologies

Benzonatate is a medication with the chemical formula $C_{30}H_{53}NO_{11}$. It is commonly used to relieve cough caused by conditions such as respiratory infections or irritation of the airways. It belongs to the class of drugs known as antitussives. Antitussives are substances that suppress or relieve coughing. Benzonatate works by anesthetizing the stretch receptors in the respiratory passages, lungs, and pleura. This helps reduce the urge to cough. It is typically taken orally in the form of capsules. It's important not to chew or break the capsules, as this can lead to a numbing sensation in the mouth and throat. It is essential to follow the prescribed dosage and not exceed recommended limits. Overdose can lead to serious side effects, including death.

Benzonate be retained and analyzed using a Primesep P mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and Ammonium formate as a buffer. This method allows for detection using UV at 310 nm

Method Parameters

Mobile Phase	Gradient MeCN – 30-70%, 10 min, Gradient MeOH – 40-60%, 30 min
Buffer	Ammonium formate pH 3.0 – 20 mM
Flow Rate	0.5 ml/min
Detection	UV 310 nm
Class of Compounds	Acids, Aromatic carboxylic acids
Analyzing Compounds	Benzonate

HPLC Column Used

Primesep P, 3.2 x 100 mm, 5 µm, 100 A, dual ended

[Order this column at hplc-shop.de →](http://hplc-shop.de)