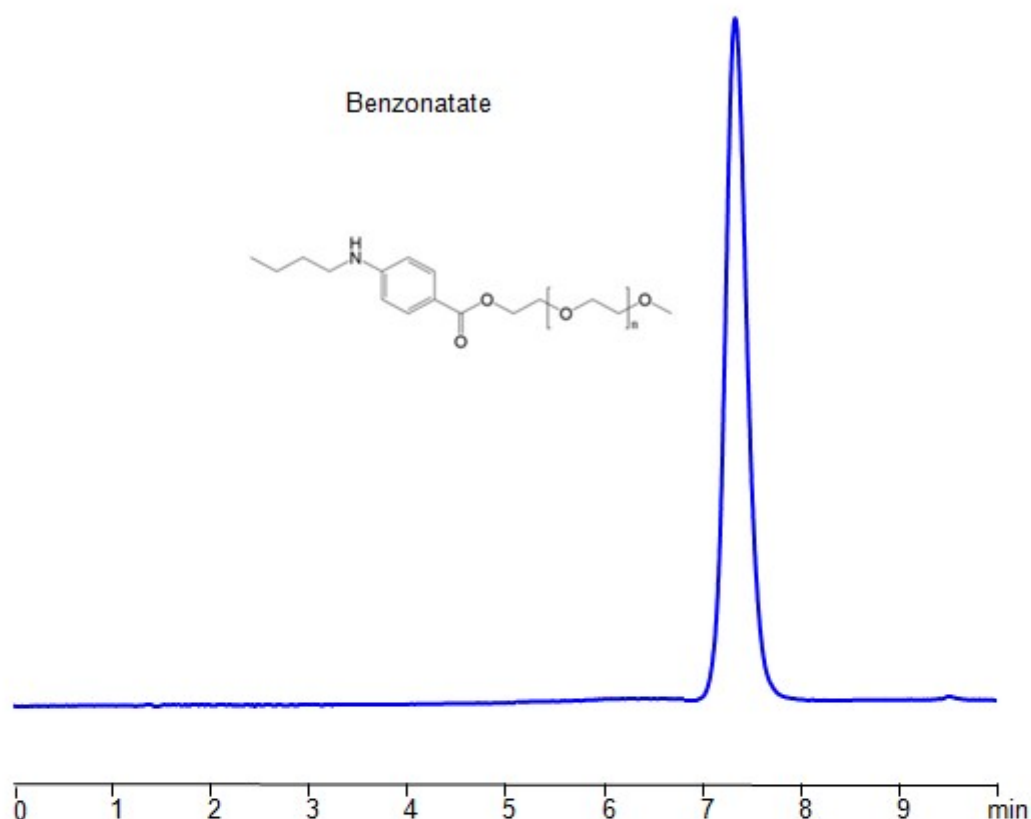


HPLC Method for Analysis of Benzonatate on Primesep 100 Column

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

Chromatogram



Column:	Primesep 100
Column size:	2.1 × 100 mm, 5 µm
Column part number:	100-21.100.0510
Mobile phase:	Gradient MeCN/H ₂ O – 40-80%, 10 min
Buffer:	H ₃ PO ₄ - 0.2%
Flow rate:	0.2 mL/min
Detection:	UV 310 nm
Injection volume:	1.0 µL
Sample:	0.01 mg/ml
LOD:	1 ppb

Description

· HPLC Method for Analysis of Benzonatate on Primesep 100 Column by SIELC Technologies

Benzonatate is a medication with the chemical formula C₃₀H₅₃NO₁₁. Antitussives are substances that suppress or relieve coughing. Benzonatate works by numbing the throat and lungs, reducing the cough reflex. Benzonatate is primarily used to relieve cough caused by conditions such as respiratory infections or irritation of the airways. It works by anesthetizing the stretch receptors in the respiratory passages, lungs, and pleura. This helps reduce the urge to cough. Typically, it is 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. Common side effects may include dizziness, headache, constipation, and upset stomach. Serious allergic reactions are rare but possible.

Benzonatate be retained and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and phosphoric acid as a buffer. This method allows for detection using UV at 310 nm

Method Parameters

Mobile Phase	Gradient MeCN 40-80%, 10 min
Buffer	H3PO4 -0.2%
Flow Rate	0.2ml/min
Detection	UV 310 nm
Samples	0.01 mg/mL
Injection volume	5 µl
LOD*	1 ppb
Class of Compounds	Antitussives
Analyzing Compounds	Benzonatate

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 A, dual ended

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