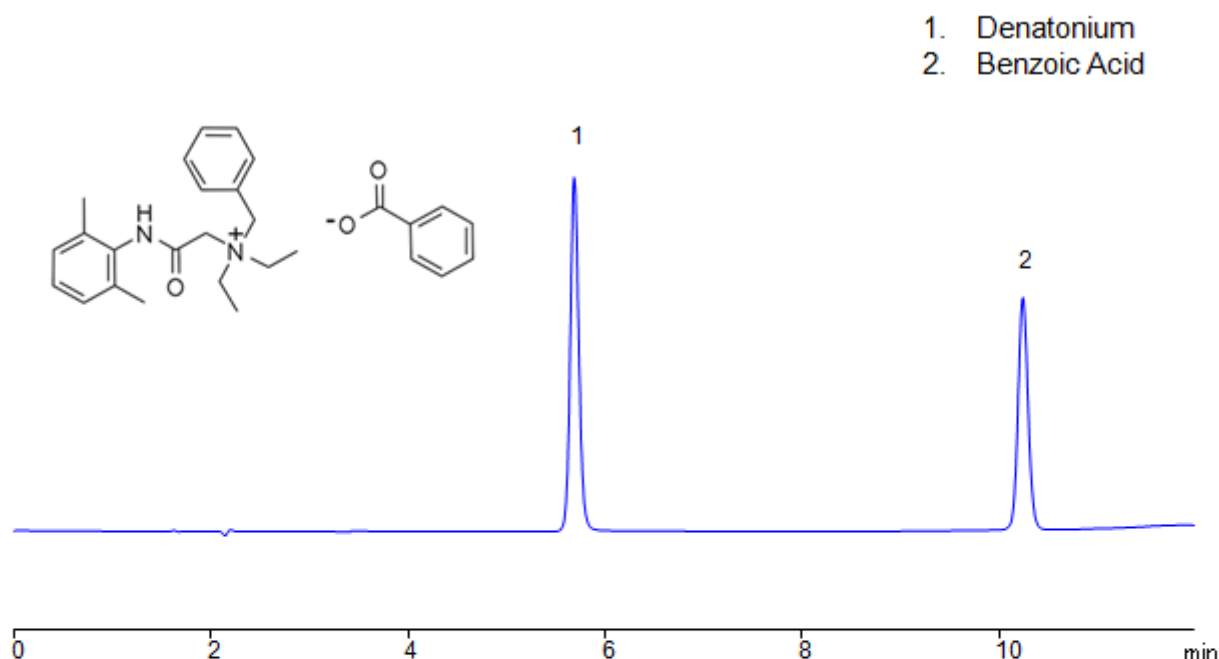


HPLC Method for Analysis of Denatonium Benzoate on Primesep SB Column

<https://sielc.com/hplc-method-for-analysis-of-denatonium-benzoate>

Chromatogram



Column:	Primesep SB
Column size:	4.6 × 150 mm, 3 µm
Column part number:	SB-46.150.0310
Mobile phase:	Gradient MeCN – 10% to 50% in 10 min, 2 min hold
Buffer:	Ammonium formate pH 3.0 - 50 mM
Column Temp:	30C
Flow rate:	1.0 mL/min
Detection:	UV 260 nm, MS-compatible mobile phase

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Denatonium benzoate .

Denatonium benzoate , also known as Denatonium, is the bitterest chemical that is safe to be ingested. It is often used as a bittering agent to antifreeze, detergents, and cosmetics to prevent consumption. Even low concentrations of it can cause an incredibly bitter taste, which has led to it's occasional use in placebo medication to mimic certain other pills. In France and Italy it is mandatory to add Denatonium to antifreeze. It has the chemical formula $C_{20}H_{24}N_2O_2$. You can find detailed UV spectra of Denatonium benzoate and information about its various lambda maxima by visiting the following link.

Denatonium benzoate can be retained and analyzed using the Primesep SB stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with an Ammonium Formate buffer. Detection is performed using UV and is compatible with Mass Spectrometry (MS), ELSD, and CAD.

Method Parameters

Mobile Phase	Gradient MeCN
Buffer	Ammonium Formate pH 3.0 50 mM
Flow Rate	1.0 ml/min
Detection	UV 260 nm, MS-compatible mobile phase
Class of Compounds	Acid, Quaternary amine
Analyzing Compounds	Denatonium benzoate

HPLC Column Used

Primesep SB, 4.6 x 150 mm, 3 µm, 100 A, single ended

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