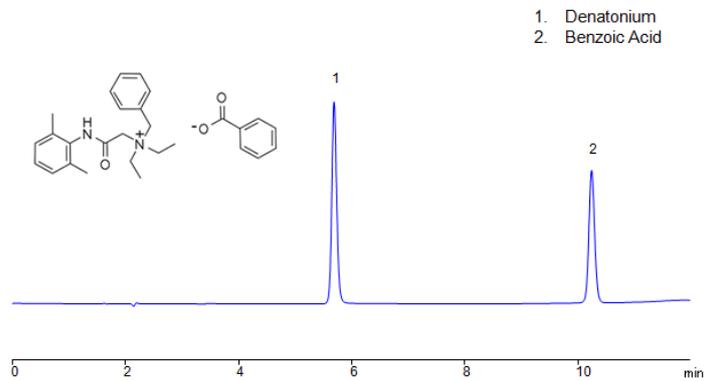


HPLC Method for Analysis of Denatonium Benzoate on Primesep SB Column



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

Denatonium Benzoate is the most bitter compound ever discovered. It has several popular applications, including as a key ingredient in denaturing ethanol (for tax and sales purposes), as a placebo to mimic the bitter taste of certain pills, and as a biochemical warning to prevent the consumption of various types of harmful organic substances (including methanol, acetone, and paint, among others). Denatonium Benzoate can be separated and retained on a mixed-mode Primesep SB column with embedded strong basic ion-pairing groups, using a gradient analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and an Ammonium Formate (AmFm) ionic modifier. This analysis method can be UV detected at 260 nm with high resolution and peak symmetry and is compatible with Mass Spectrometry (MS), ELSD, and CAD.

Method Parameters

Column	Primesep SB, 4.6×150 mm, 3 µm, 100 Å
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

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