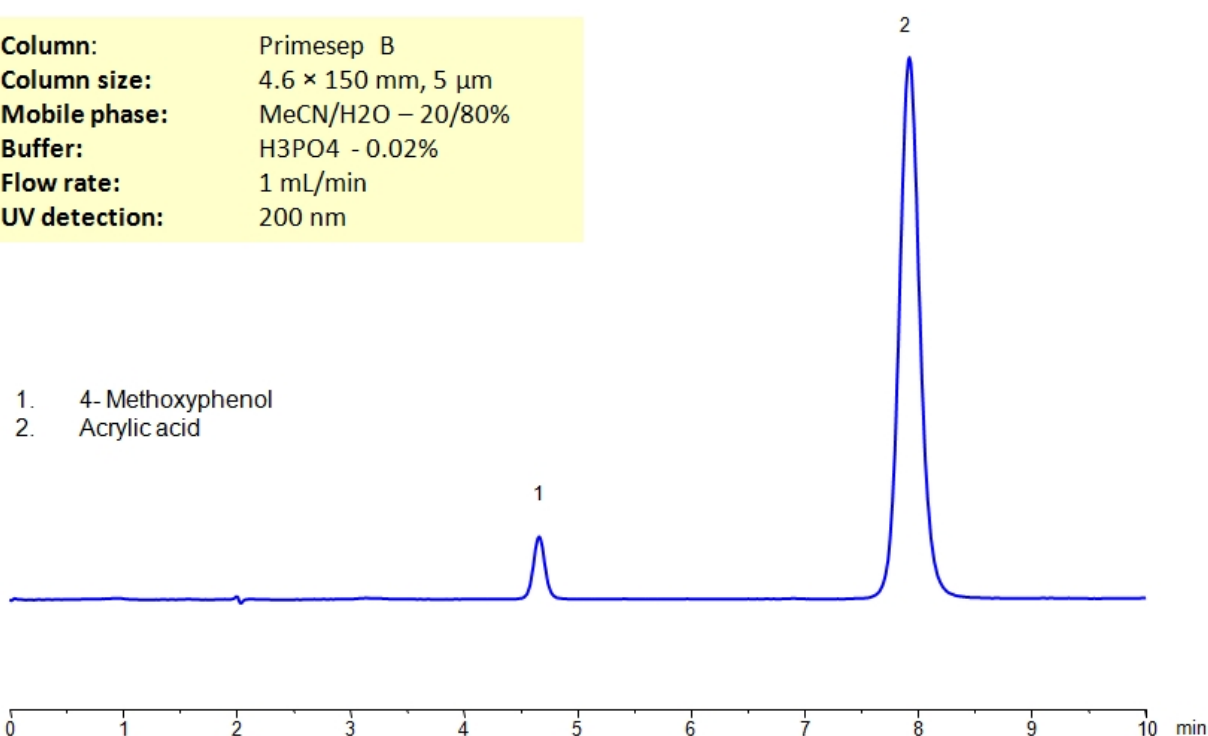


HPLC Separation of Acrylic Acid and 4- Methoxyphenol on Primesep B Column

<https://sielc.com/hplc-separation-of-acrylic-acid-and-4-methoxyphenol>

Chromatogram

Column: Primesep B
Column size: 4.6 × 150 mm, 5 µm
Mobile phase: MeCN/H₂O – 20/80%
Buffer: H₃PO₄ - 0.02%
Flow rate: 1 mL/min
UV detection: 200 nm



Description

Acrylic acid in combination with other monomers produces copolymers which are used in manufacturing of various products such as paints, adhesives and plastics. Esters and salts of acrylic acid are known as acrylates. 4-methoxyphenol, also known as mequinol, is an active ingredient in topical drugs and is also used for inhibition of radical polymerization of monomers like acrylates. The two compounds can be separated on a mixed-mode Primesep B column with isocratic method in mobile phase of 20/80 Acetonitrile (ACN) and water with 0.02% phosphoric acid buffer. UV Detection 200nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	H ₃ PO ₄ – 0.02 %
Flow Rate	1.0 ml/min
Detection	UV, 200 nm
Class of Compounds	Acid, Hydrophilic, Ionizable, Antioxidant, Inhibitor, Phenol, Carboxylic acid
Analyzing Compounds	Acrylic Acid, 4- Methoxyphenol, Mequinol

HPLC Column Used

Primesep B, 4.6×150 mm, 5 µm, 100A

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