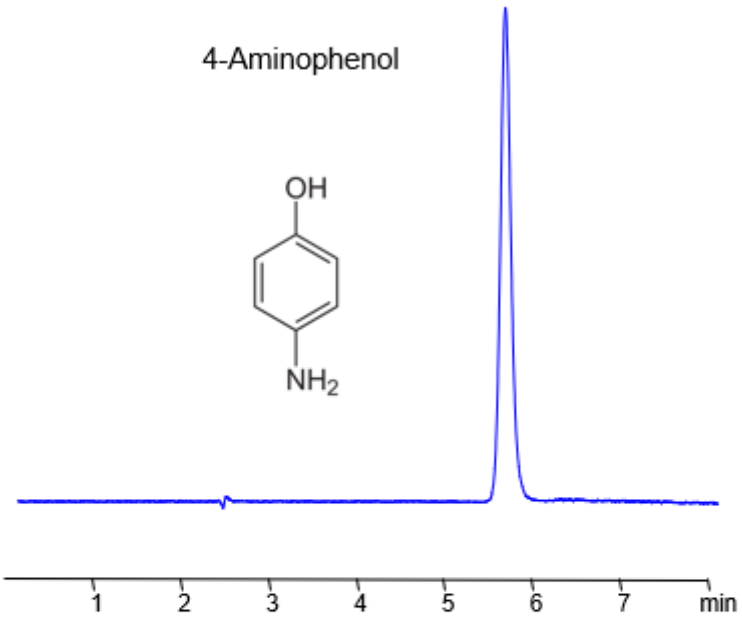
HPLC Method for Analysis of 4-Aminophenol on Primesep 100 Column

https://sielc.com/hplc-determination-of-4-aminophenol

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN – 10%
Buffer:	H_2SO_4 - 0.2%
Flow rate:	1.0 mL/min
Detection:	UV 275 nm

Description

· Separation type: Liquid Chromatography Mixed-mode

High Performance Liquid Chromatography (HPLC) Method for Analysis of 4-Aminophenol on Primesep 100 by SIELC Technologies

4-Aminophenol (also known as para-aminophenol or Rodinal) is a popular film developing compound and building block in organic chemistry reactions. Most notably, it is a key compound used in the production of acetaminophen (also known as paracetamol or Tylenol). 4-Aminophenol can be separated, retained, and analyzed on a Primesep 100 mixed-mode stationary phase column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and an sulfuric acid (H2SO4) or Perchloric acid (HClO4)buffer. This analysis method can be detected in the UV regime at 275 nm.

Method Parameters

Mobile Phase	MeCN – 10%

Buffer	H2SO4 – 0.2% or HClO4 – 0.2%
Flow Rate	1.0 ml/min
Detection	UV 200, 210, 275 nm
Peak Retention Time	3.7 min, 6.9
Class of Compounds	Alcohols, Phenols, Amines, Amine Salts
Analyzing Compounds	4-Aminophenol

HPLC Column Used

Primesep 100, 4.6×150 mm, 5 µm, 100A

Order this column at hplc-shop.de →