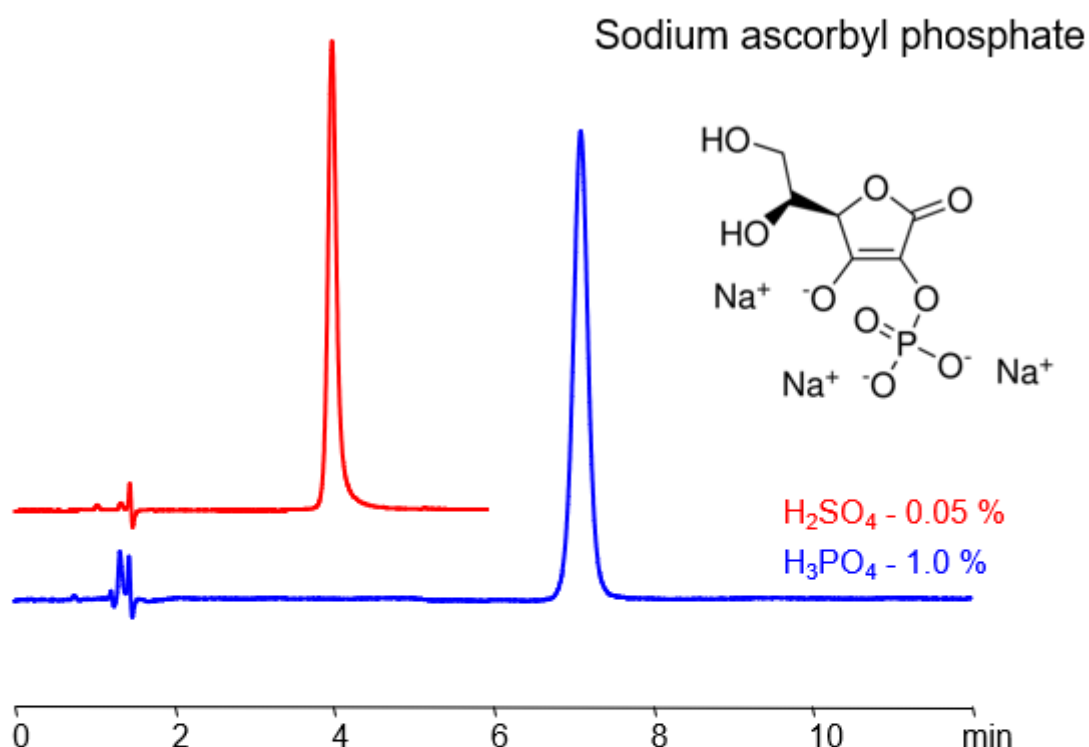


HPLC Method for Analysis of Ascorbyl Phosphate on Newcrom BH Column

<https://sielc.com/hplc-method-for-analysis-of-ascorbyl-phosphate>

Chromatogram



Column:	Newcrom BH
Column size:	3.2 × 100 mm, 3 µm
Column part number:	NBH-32.100.0310
Mobile phase:	MeCN/H ₂ O – 10/90%
Buffer:	H ₂ SO ₄ or H ₃ PO ₄
Flow rate:	0.5 mL/min
Detection:	UV 238 nm

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Sodium ascorbyl phosphate .

Sodium Ascorbyl Phosphate is a popular, more mild, form of Vitamin C with the chemical formula C₆ H₆ Na₃ O₉ P . It is found in a variety of dermatology products and used for its antioxidant properties.

Sodium ascorbyl phosphate can be retained and analyzed on a mixed-mode Newcrom BH column with a mobile phase consisting of water, Acetonitrile (MeCN), and either Sulfuric acid (H₂SO₄) or Phosphoric acid (H₃PO₄) as the ionic modifier. This analytical method can be UV detected at 238 nm with high resolution and peak symmetry.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 10/90%
Buffer	H ₂ SO ₄ or H ₃ PO ₄
Flow Rate	0.5 ml/min
Detection	UV 238 nm
LOD	0.05 ppm
Class of Compounds	Acid, Hydrophilic
Analyzing Compounds	Sodium ascorbyl phosphate

HPLC Column Used

Newcrom BH, 3.2 x 100 mm, 3 µm, 100 A, dual ended

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