

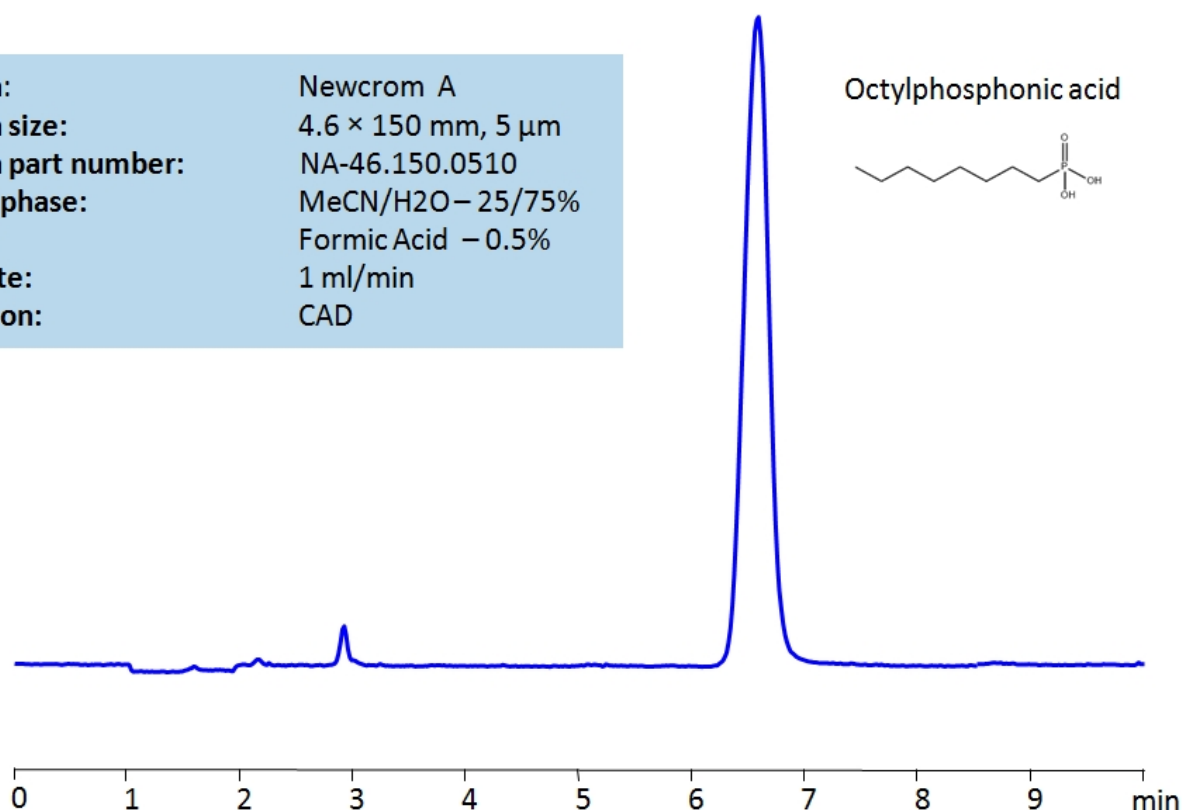
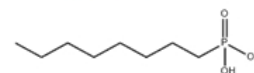
HPLC Determination of Octylphosphonic acid on Newcrom A

<https://sielc.com/hplc-determination-of-octylphosphonic-acid-on-newcrom-a>

Chromatogram

Column: Newcrom A
Column size: 4.6 × 150 mm, 5 µm
Column part number: NA-46.150.0510
Mobile phase: MeCN/H₂O – 25/75%
Buffer: Formic Acid – 0.5%
Flow rate: 1 ml/min
Detection: CAD

Octylphosphonic acid



Description

Octylphosphonic acid (OPA) is a surfactant with the chemical formula C₈H₁₉O₃P . It can be used to synthesize self-assembled monolayers (SAMs), polymeric matrices, and as a coating for super-resolution microscopy.

Using a Newcrom A mixed-mode column and a mobile phase consisting of water and acetonitrile (MeCN) with a formic acid buffer, OPA can be retained, measured, and analyzed. This analysis method can be used in conjunction with charged aerosol detection (CAD).

Method Parameters

Mobile Phase	MeCN/H ₂ O – 25/75%
Buffer	Formic Acid – 0.5%
Flow Rate	1.0 ml/min
Detection	CAD
Class of Compounds	Hydrophobic, Ionizable
Analyzing Compounds	Octylphosphonic acid

HPLC Column Used

Newcrom AH, 4.6 x 150 mm, 5 µm, 100 A, dual ended

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