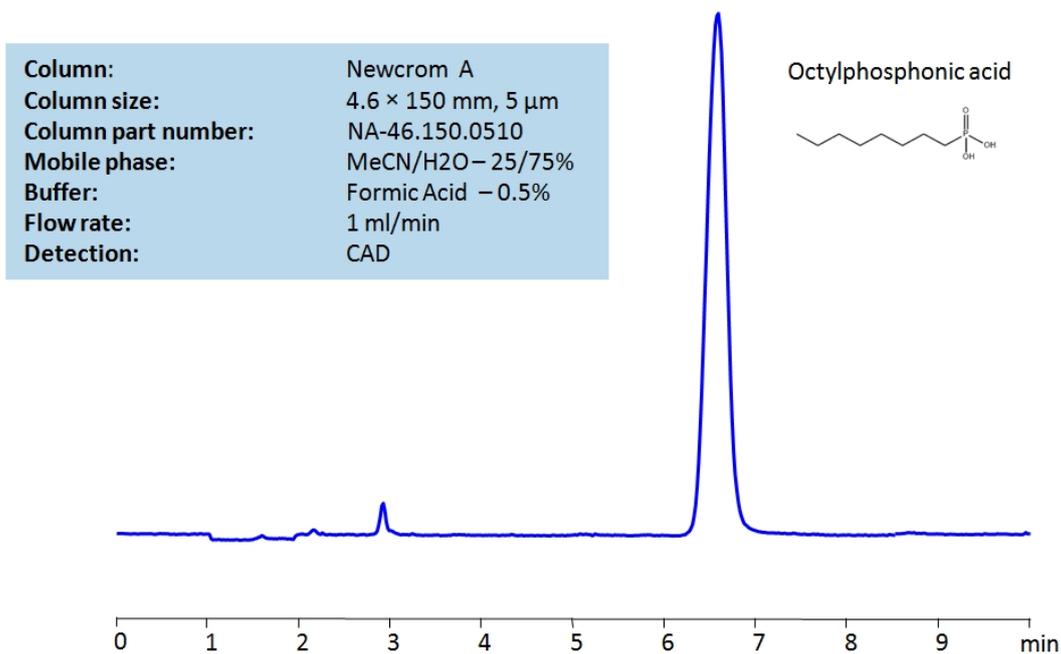


HPLC Determination of Octylphosphonic acid on Newcrom A



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

Column	Newcrom AH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 25/75%
Buffer	Formic Acid – 0.5%
Flow Rate	1.0 mL/min
Detection	CAD

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