

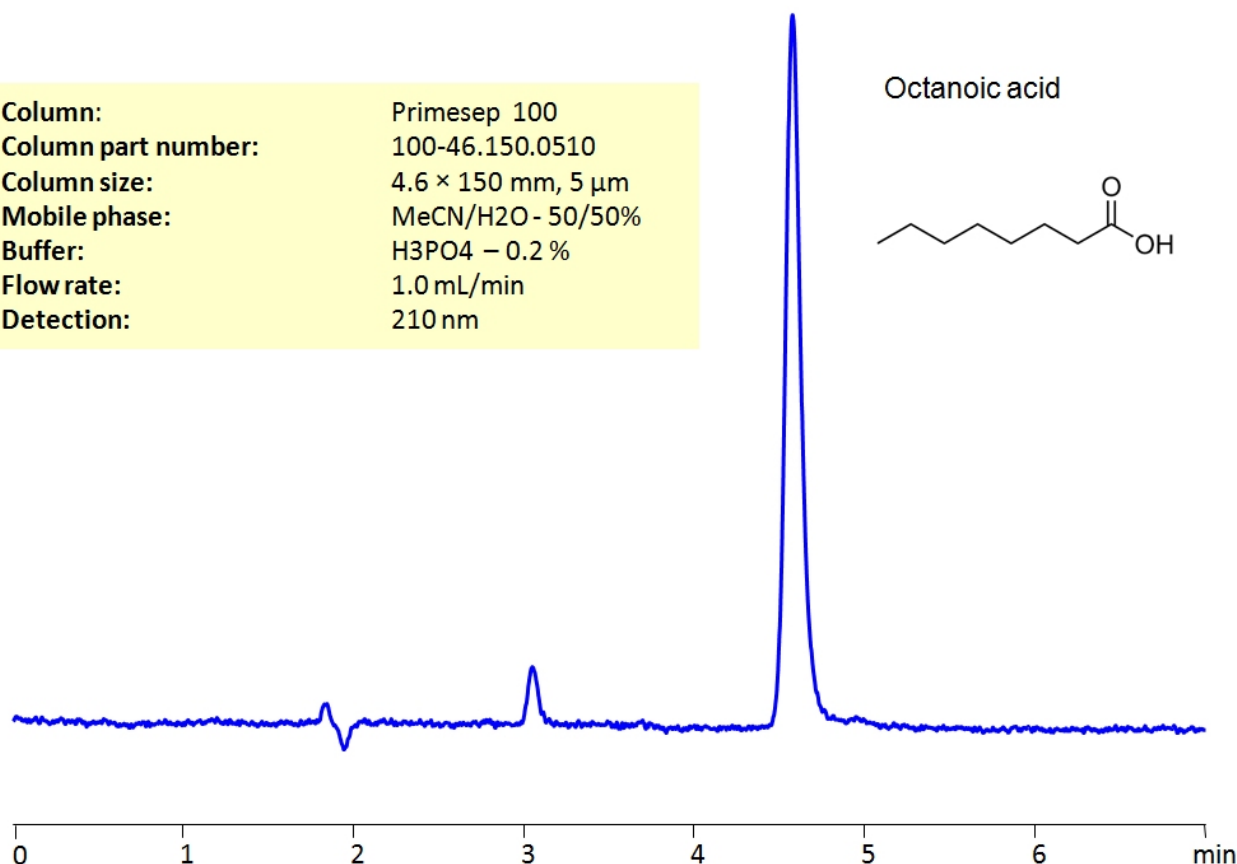
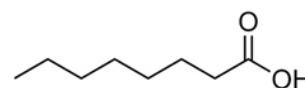
HPLC Determination of Octanoic acid (Caprylic acid) on Primesep 100 Column

<https://sielc.com/hplc-determination-of-octanoic-acid>

Chromatogram

Column: Primesep 100
Column part number: 100-46.150.0510
Column size: 4.6 × 150 mm, 5 µm
Mobile phase: MeCN/H₂O - 50/50%
Buffer: H₃PO₄ – 0.2 %
Flow rate: 1.0 mL/min
Detection: 210 nm

Octanoic acid



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Octanoic acid (Caprylic acid) .

Octanoic acid (Caprylic acid) is the common name for the eight-carbon straight-chain fatty acid. It can be found in numerous foods such as coconuts, cherries, plums, pineapple sages, black raspberries, and shallots. Octanoic acid is found to be associated with medium-chain acyl-CoA dehydrogenase deficiency, a genetic disorder that affects the metabolism of converting certain fatty acids to energy.

Octanoic acid can be retained on a mixed-mode Primesep 100 column by using an isocratic method consisting of a 50/50% Acetonitrile (ACN) and water mobile phase with a Phosphoric acid (H₃PO₄) buffer. UV detection at 210 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 50/50%
Buffer	H ₃ PO ₄ – 0.2%
Flow Rate	1.0 ml/min
Detection	UV 210 nm

LOD*	7 ppm
Class of Compounds	Hydrophobic, Acid
Analyzing Compounds	Octanoic acid (Caprylic acid)

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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