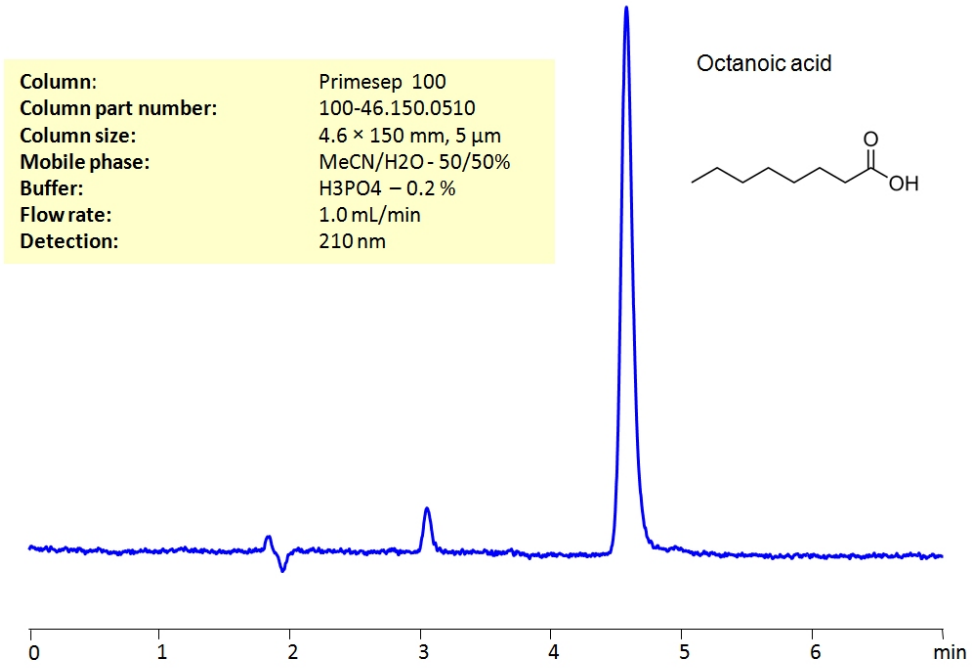
HPLC Determination of Octanoic acid (Caprylic acid) on Primesep 100 Column



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

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 50/50%
Buffer	H3PO4 – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 210 nm

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

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