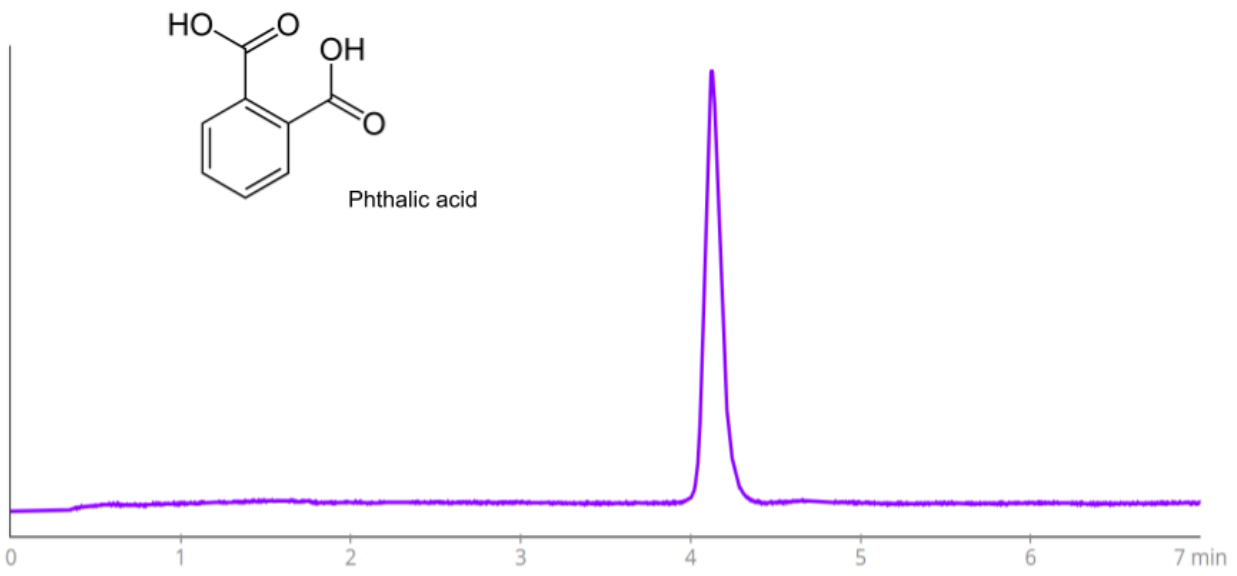
HPLC Method for Analysis of Phthalic acid on Primesep 100 Column on Alltesta™

https://sielc.com/hplc-method-for-analysis-of-phthalic-acid

Chromatogram



Column	Primesep 100
Column Size	4.6 x 150 mm, 5 µm
Part Number	100-46.150.0510
Mobile Phase	MeCN/H_2O - 50/50%
Buffer	H_2SO_4 - 0.2%
Flow Rate	1.0 ml/min
Injection Volume	1 µL
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Phthalic Acid

Phthalic acid is an aromatic dicarboxylic acid with the chemical formula C■H■(CO■H)■ . It consists of a benzene ring with two carboxylic acid groups (-COOH) attached to adjacent carbon atoms (in the ortho position). It is mainly produced by the oxidation of naphthalene or o-xylene. In the form of phthalic anhydride, it is used as an industrial chemical. It is primarily used to make phthalates, which are esters of phthalic acid.

Phthalic Acid can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with phosphoric acid as a buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN – 50%
Buffer	Sulfuric Acid
Flow Rate	1.0 mL/min
Detection	UV 275 nm
Class of Compounds	Acid
Analyzing Compounds	Phthalic Acid

HPLC Column Used

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

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