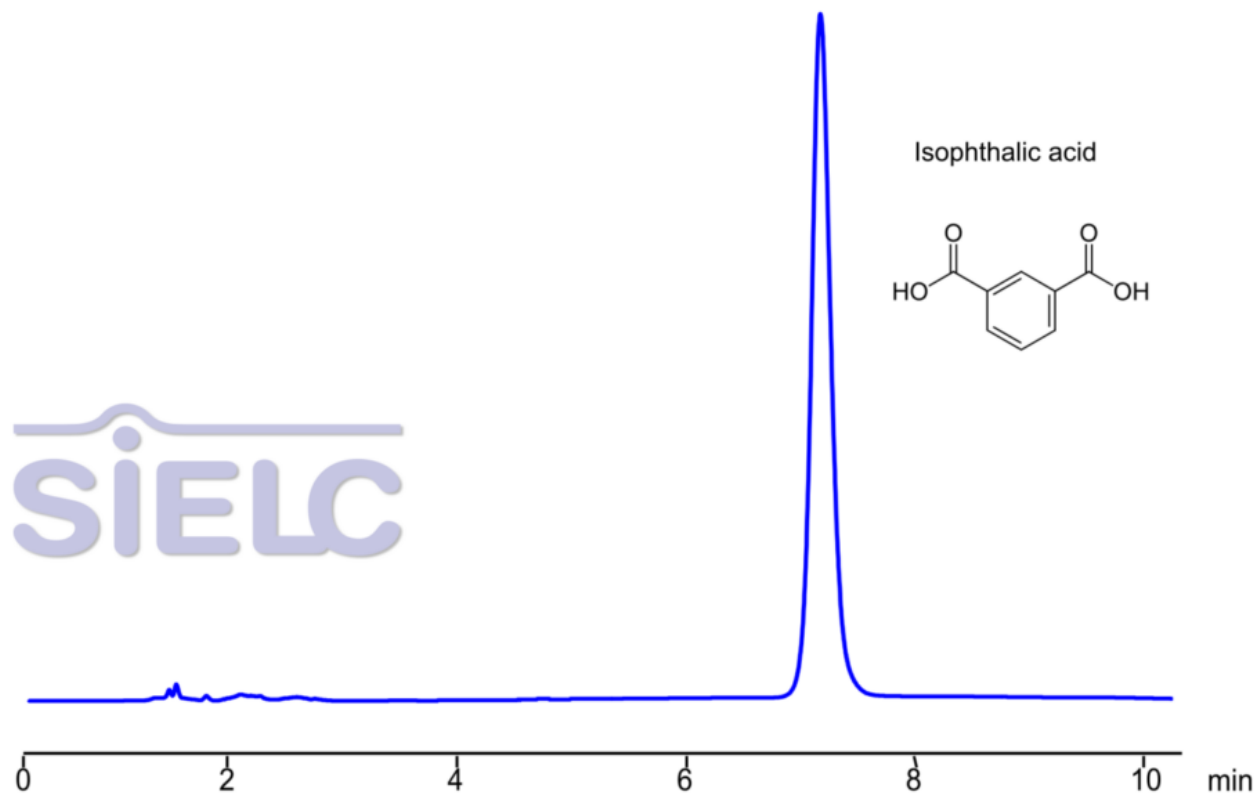


HPLC Method for Analysis of Isophthalic acid on Primesep B Column

<https://sielc.com/hplc-method-isophthalic-acid>

Chromatogram



Column:	Primesep B
Column size:	4.6 × 150 mm, 5 µm
Column part number:	B-46.150.0510
Mobile phase:	Gradient MeCN - 30-70%, 10 min
Buffer:	H ₃ PO ₄ - 0.4%
Flow rate	1.0 ml/min
Detection:	UV 210 nm
Concentration:	1.0 mg/ml
Injection Volume:	1 µL
Diluent:	MeCN/H ₂ O - 50/50%
Limit of Detection:	5 ppb

Description

· Separation type: Liquid Chromatography Mixed-mode SIELC Technologies · HPLC Method for Analysis of Isophthalic acid on Primesep B Column

Isophthalic acid is an aromatic dicarboxylic acid with the chemical formula $C_6H_4(COOH)_2$. It is a colorless crystalline solid and is one of the three isomers of benzene dicarboxylic acid, the others being phthalic acid and terephthalic acid. In isophthalic acid, the two carboxyl groups ($-COOH$) are positioned on the 1st and 3rd carbons of the benzene ring, making it a meta isomer.

Uses:

Isophthalic acid can be retained, separated and analyzed using a Primesep B mixed-mode stationary phase column. The analysis employs a gradient method with a simple mobile phase comprising water, acetonitrile (MeCN), and phosphoric acid as a buffer. This method allows for detection using UV 210 nm.

You can find detailed UV spectra of Isophthalic acid and information about its various lambda maxima by visiting the following link .

Method Parameters

Mobile Phase	Gradient MeCN – 30-70%, 10 min
Buffer	H3PO4 – 0.4%
Flow Rate	1.0 ml/min
Detection	UV 210 nm
Limit of Detection	5 ppb
Class of Compounds	Acid
Analyzing Compounds	Isophthalic acid

HPLC Column Used

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

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