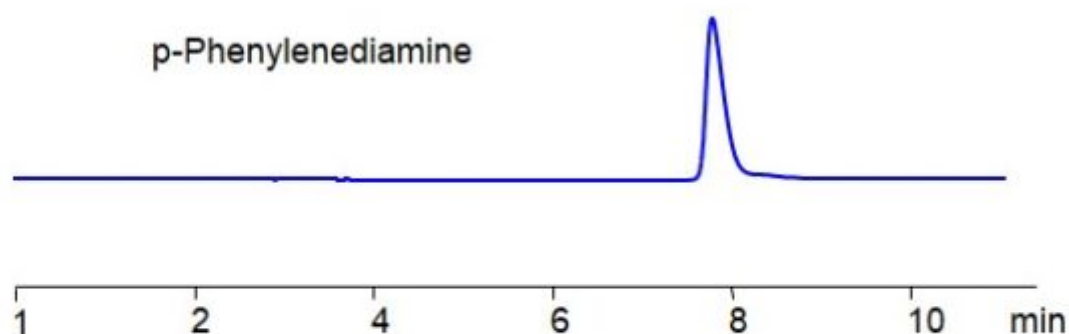


HPLC Method for Analysis of p-Phenylenediamine on Primesep 100 Column

<https://sielc.com/hplc-method-for-analysis-phenylenediamine>

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O – 30/70%
Buffer:	H ₂ SO ₄ - 0.2%
Flow rate:	1.0 mL/min
Detection:	UV 210 nm
Column Temp:	30 °C

Description

· HPLC Method for Analysis of p-Phenylenediamine on Primesep 100 Column by SIELC Technologies

p-Phenylenediamine, commonly known as PPD, is an organic compound with the formula C₆H₈N₂. It is used in hair dyes and black rubber products, especially kevlar and Twaron. Its use in hair dyes is being phased out, however, in favor of other aniline analogues. You can find detailed UV spectra of p-Phenylenediamine and information about its various lambda maxima by visiting the following link.

p-Phenylenediamine can be retained and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using UV at 210 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 30/70%
Buffer	H ₂ SO ₄ -0.2%
Flow Rate	1.0 ml/min

Detection	UV 210 nm
Samples	p-Phenylenediamine (1.3 mg/mL)
Injection volume	3 µl
Class of Compounds	Aromatic amines
Analyzing Compounds	p-Phenylenediamine

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)