

HPLC Method for Analysis of Isomers of Phenylenediamine on Primesep 100 Column



Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

o-Phenylenediamine, m-Phenylenediamine, and p-Phenylenediamine are isomers of phenylenediamine, where the amino groups are attached to different positions on the benzene ring.

These compounds are important in various industrial applications due to their role as intermediates in the synthesis of other chemicals.

o-Phenylenediamine, m-Phenylenediamine, p-Phenylenediamine can be retained, separated 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 200 nm

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 μ m, 100 Å, dual ended
Mobile Phase	MeCN – 40%
Buffer	H ₂ SO ₄ -0.1%
Flow Rate	1.0 mL/min
Detection	UV 200 nm
Injection Volume	1 μ l

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