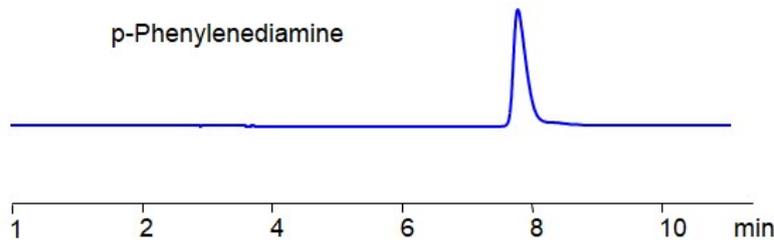


## HPLC Method for Analysis of p-Phenylenediamine on Primesep 100 Column



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

N,N-Bis(2-hydroxyethyl)-p-phenylenediamine (often abbreviated as N,N-Bis(2-hydroxyethyl)-PPD) is a chemical compound that is a derivative of p-phenylenediamine (PPD), a common ingredient in hair dyes.

The N,N-Bis(2-hydroxyethyl)-p-phenylenediamine 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

<b>Column</b>	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O – 30/70%
<b>Buffer</b>	H <sub>2</sub> SO <sub>4</sub> -0.2%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV 210 nm
<b>Injection Volume</b>	3 µl

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