

## HPLC Method for Analysis of Pyridine on Primesep 100 Column



Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Pyridine is an aromatic heterocyclic organic compound with the chemical formula  $C_5H_5N$ . It is structurally related to benzene, with one methine group ( $=CH-$ ) replaced by a nitrogen atom.

Pyridine can be retained, separated and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs a gradient method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using UV 250 nm.

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

### Method Parameters

<b>Column</b>	Primesep 100, 4.6 x 150 mm, 5 $\mu$ m, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN – 70%
<b>Buffer</b>	H <sub>2</sub> SO <sub>4</sub> – 0.05%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV 250 nm
<b>Limit of Detection</b>	5 ppb

Quelle: <https://sielc.com/hplc-method-pyridine>