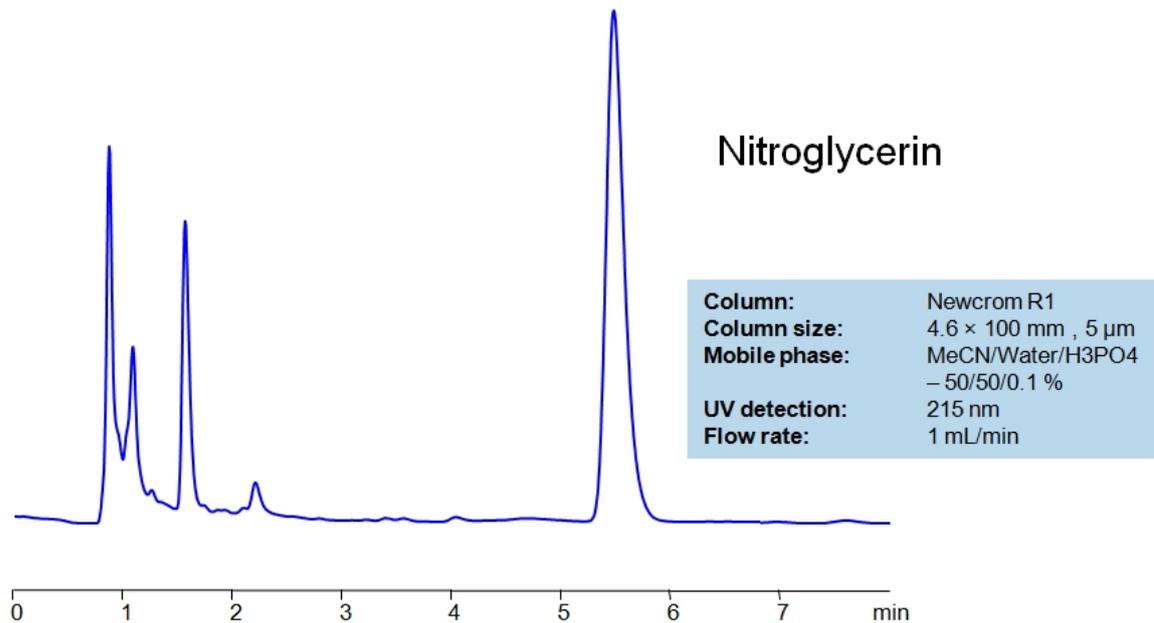


## HPLC Method for Analysis of Nitroglycerin on Newcrom R1 Column



### High Performance Liquid Chromatography (HPLC) Method for Analysis of Nitroglycerin

Nitroglycerin is a chemical compound with  $C_3H_5N_3O_9$  as its molecular formula. Historically, Nitroglycerin has been used as an explosive. These days, however, it is more commonly used as a vasodilator medication through widening blood vessels.

Nitroglycerin can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a phosphoric acid buffer. Detection is performed using UV.

### Method Parameters

<b>Column</b>	Newcrom R1, 4.6 x 100 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O – 50/50%
<b>Buffer</b>	H <sub>3</sub> PO <sub>4</sub> – 0.1%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV, 215 nm

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