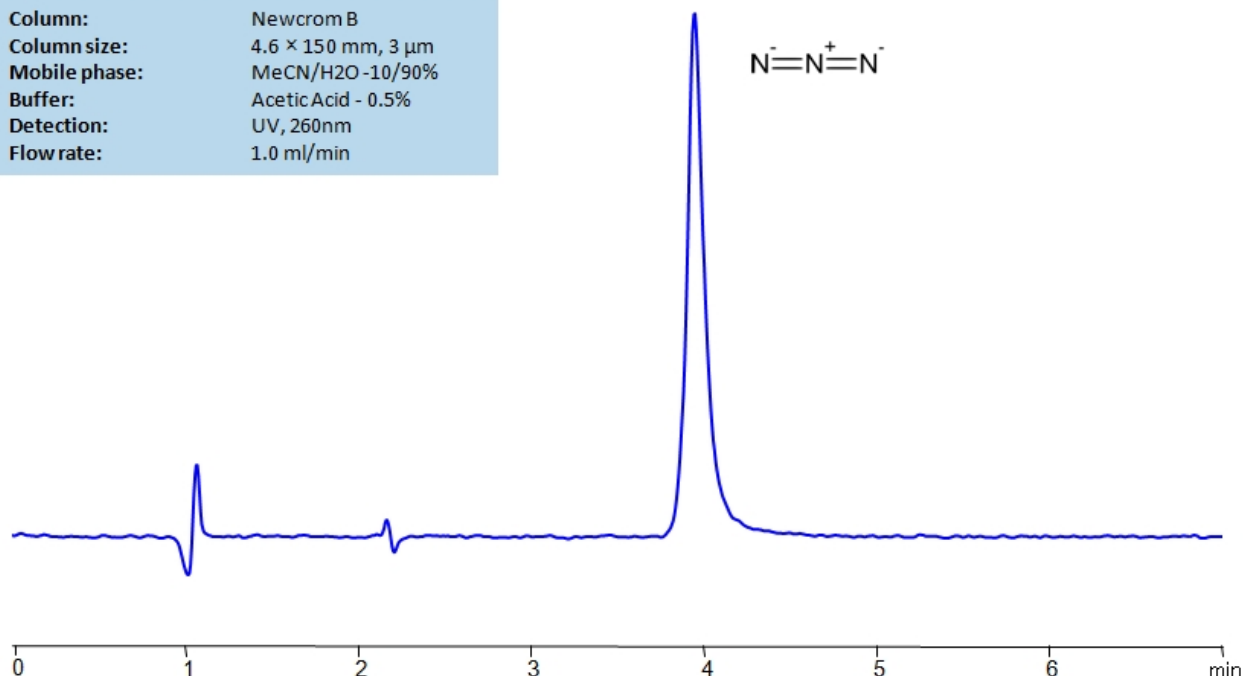


HPLC Determination of Sodium Azide on Newcrom B Column

<https://sielc.com/hplc-determination-of-sodium-azide-on-newcrom-b-column>

Chromatogram

Column: Newcrom B
Column size: 4.6 × 150 mm, 3 µm
Mobile phase: MeCN/H₂O -10/90%
Buffer: Acetic Acid - 0.5%
Detection: UV, 260nm
Flow rate: 1.0 ml/min



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Sodium azide , Azide Ion .

Sodium Azide is an inorganic compound with the chemical formula NaN_3 . It is soluble in water and is acutely poisonous. In the past, it was used in airbags alongside other oxidizers, ignitors, and accelerants due to its breakdown into Sodium and Nitrogen at high temperatures. These days, Sodium Azide is majorly used in industrial scale organic synthesis, as it is an explosion hazard which makes it dangerous. On occasion, it is also used in agriculture as a form of pest control or mutagen for crop selection. In biochemistry it is used as a biocide, probe reagent and an antibacterial preservative.

Sodium azide , Azide Ion can be retained and analyzed using the Newcrom B stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with an acetic acid buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 10/90%
Buffer	Acetic Acid – 0.5 %
Flow Rate	1.0 ml/min
Detection	UV 260 nm, MS- compatible mobile phase

Class of Compounds	Hydrophilic, Negative
Analyzing Compounds	Sodium azide,Azide Ion

HPLC Column Used

Newcrom B, 4.6 x 150 mm, 3 µm, 100 A, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)