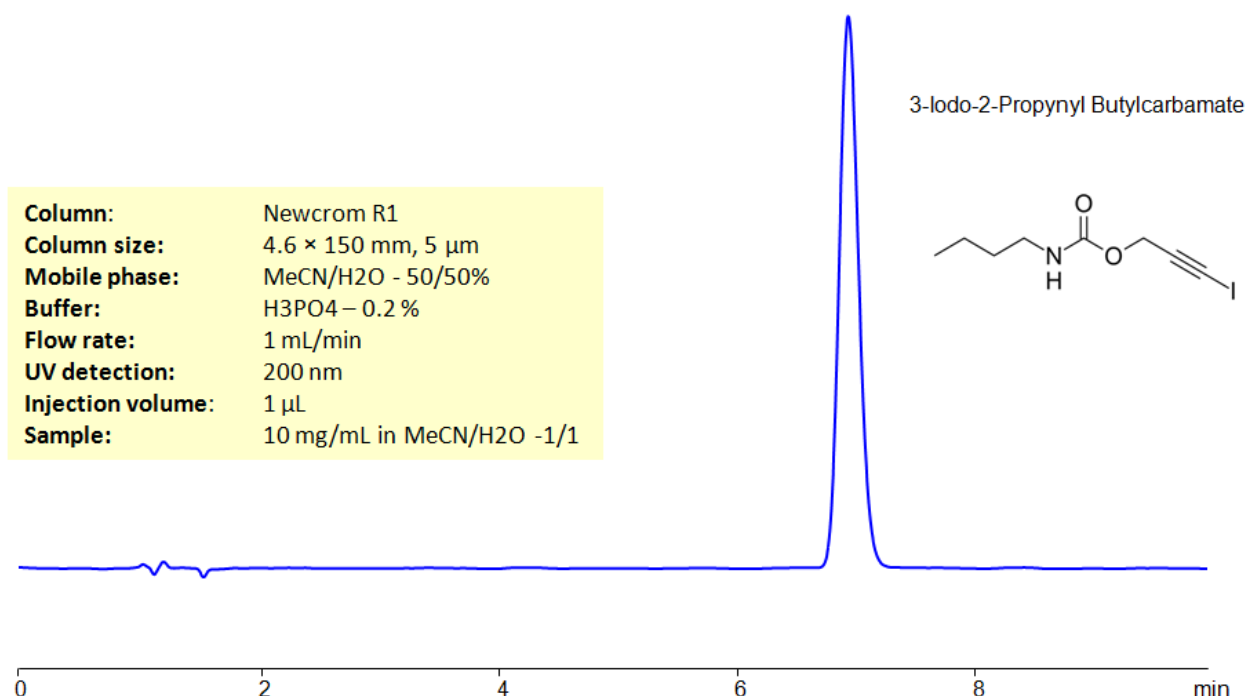


HPLC Determination of 3-Iodo-2-Propynyl Butylcarbamate on Newcrom R1 Column

<https://sielc.com/hplc-determination-of-3-iodo-2-propynyl-butylcarbamate>

Chromatogram



Column: Newcrom R1
Column size: 4.6 × 150 mm, 5 µm
Mobile phase: MeCN/H₂O - 50/50%
Buffer: H₃PO₄ – 0.2 %
Flow rate: 1 mL/min
UV detection: 200 nm
Injection volume: 1 µL
Sample: 10 mg/mL in MeCN/H₂O -1/1

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of 3-Iodo-2-propynyl-N-butylcarbamate .

Iodopropynyl Butyl Carbamate is a water-based preservative used in paints, coating, personal care and cosmetic industries. It is used because of its fungicide properties. It can be retained on Newcrom R1 reverse-phase column using an isocratic analytical method using a mobile phase of acetonitrile (ACN) and water with a phosphoric acid (H₃PO₄) buffer with UV detection at 200nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 50/50%
Buffer	AmFm pH 3.0- 10 mM
Flow Rate	1.0 ml/min
Detection	UV, 200 nm
Class of Compounds	Preservative, Hydrophobic, Ionizable, Zwitterionic
Analyzing Compounds	3-Iodo-2-propynyl-N-butylcarbamate

HPLC Column Used

Newcrom R1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](#)