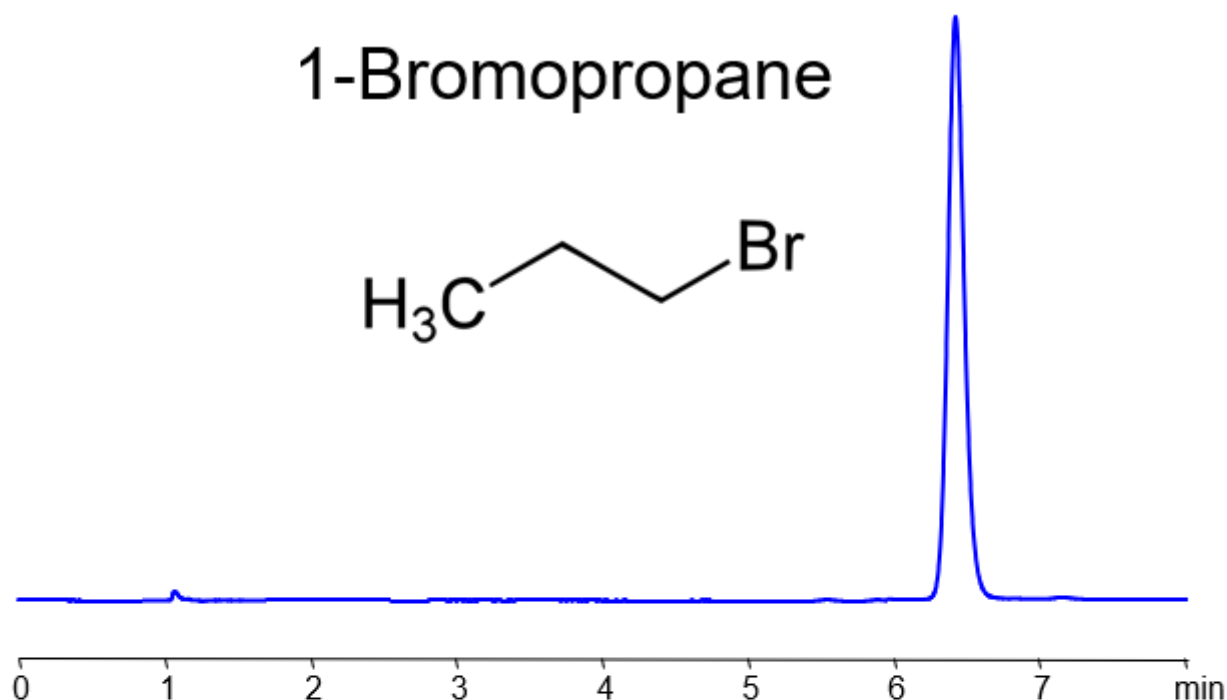


HPLC Method for Analysis of 1-Bromopropane on Newcrom R1 Column

<https://sielc.com/hplc-method-for-analysis-of-1-bromopropane>

Chromatogram



Column:	Newcrom R1
Column size:	4.6 × 150 mm, 3µm 100A
Mobile phase:	MeCN/H ₂ O – 55/45%
Buffer:	None
Column Temp:	30°C
Flow rate:	1.0 mL/min
Detection:	UV 210 nm

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of 1-Bromopropane

1-Bromopropane, or n-propylbromide, is a popular industrial solvent with the chemical formula $\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$. It has a wide variety of applications, the list of which is growing as chlorofluorocarbons are being phased out. Applications include aerosolized adhesives, asphalt production, aviation maintenance, and in synthetic fiber production. It is highly neurotoxic to humans. You can find detailed UV spectra of 1-Bromopropane and information about its various lambda maxima by visiting the following link.

1-Bromopropane can be retained and analyzed on a Newcrom R1 reverse-phase column using a simple isocratic analytical method with a mobile phase consisting of just Acetonitrile (MeCN) and water (with no ionic modifier). This analysis method can be UV detected at 210 nm with high resolution and peak symmetry.

Method Parameters

Mobile Phase	MeCN – 55%
Buffer	None
Flow Rate	1.0 ml/min
Detection	UV 210 nm
Class of Compounds	Alkyl bromides
Analyzing Compounds	1-Bromopropane

HPLC Column Used

Newcrom R1, 4.6 x 150 mm, 3 µm, 100 A, dual ended

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