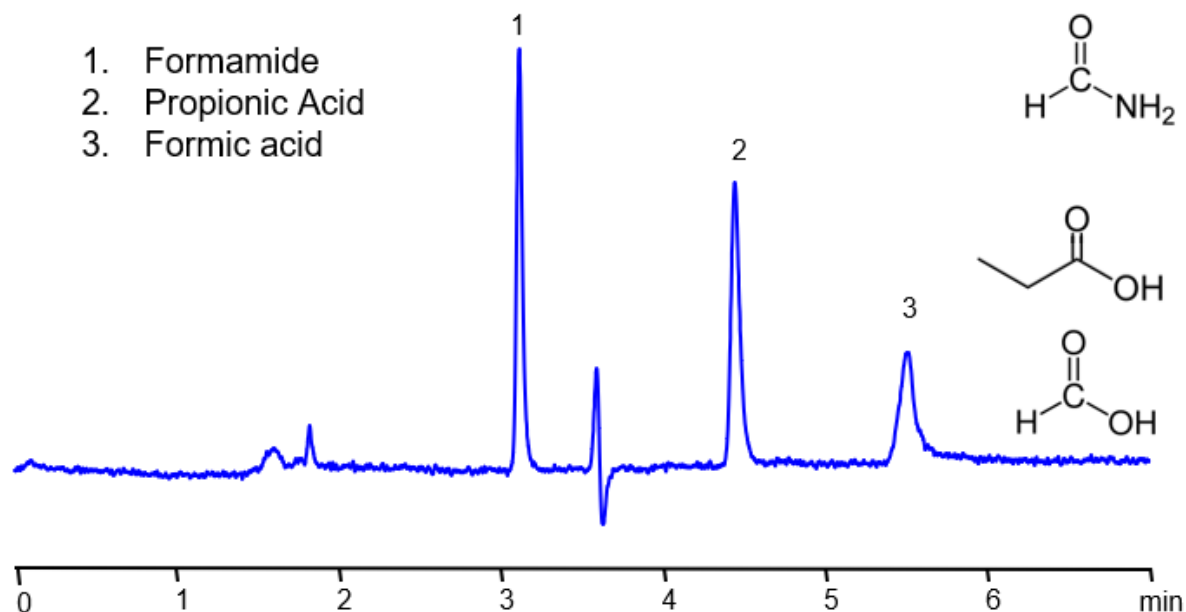


HPLC Method for Simultaneous Determination of Formamide, Propionic Acid and Formic Acid on Newcrom BH Column

<https://sielc.com/hplc-method-for-simultaneous-determination-of-formamide-propionic-acid-formic-acid>

Chromatogram



Column:	Newcrom BH
Column size:	4.6 × 250 mm, 3 µm, 100A
Column part number:	NBH-46.250.0310
Mobile phase:	MeCN/H ₂ O – 10/90%
Buffer:	H ₃ PO ₄ – 0.1%
Flow rate:	1.0 mL/min
Detection:	UV 210 nm

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Formamide , Propionic acid , Formic acid .

Formamide is a popular industrial solvent with the chemical formula CH₃NO. It has a wide variety of applications, including in the manufacturing of drugs, herbicides, pesticides, as a paper and fiber softener, and as a solvent for a plethora of ionic compounds. Historically, it was produced by treating formic acid and ammonia.

Propionic acid is a popular antifungal and antibacterial compound with C₃H₆O₂. It is an oily liquid with an unpleasant smell. Primarily, the acid is used in food production as a preservative.

Formic Acid is the simplest carboxylic acid with the chemical formula CH₂O₂. It is naturally found in insects, weeds, fruits, and vegetables. It is used by insects as a method of self-defense. In agriculture, it is used as a preservative and antibacterial agent. In chromatography, it is used as a volatile pH modifier. It is used significantly in the tanning of leather, dyeing and finishing of textiles, and production of rubber.

Formamide , Propionic acid , Formic acid can be retained, separated, and analyzed on a mixed-mode Newcrom BH column with a mobile phase consisting of water, Acetonitrile (MeCN), and Phosphoric acid (H₃PO₄). This analytical method can be UV detected at 210 nm with high resolution and peak symmetry.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 10/90%
Buffer	H ₃ PO ₄ – 0.1%
Flow Rate	10 ml/min
Detection	UV 210 nm
Class of Compounds	Acid, Hydrophilic
Analyzing Compounds	Formamide, Propionic acid, Formic acid

HPLC Column Used

Newcrom BH, 4.6 x 250 mm, 3 µm, 100 Å, dual ended

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