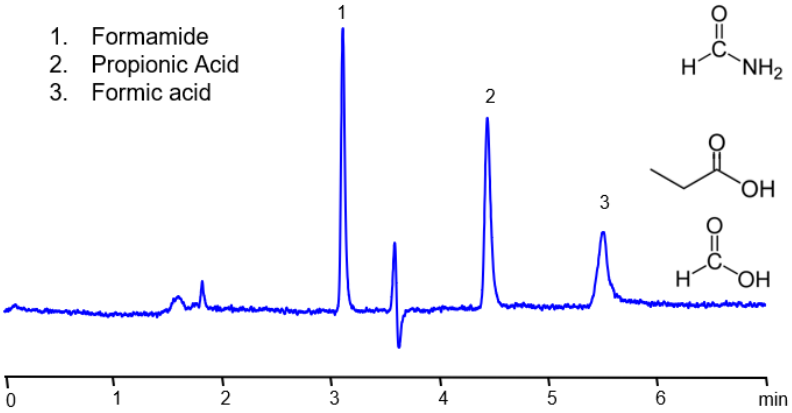
HPLC Method for Simultaneous Determination of Formamide, Propionic Acid and Formic Acid on Newcrom BH Column



Column:	Newcrom BH
Column size:	4.6 × 250 mm, 3 µm, 100A
Column part number:	NBH-46.250.0310
Mobile phase:	MeCN/H_2O – 10/90%
Buffer:	H3PO4 – 0.1%
Flow rate:	1.0 mL/min
Detection:	UV 210 nm

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.

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Method Parameters

Column	Newcrom BH, 4.6 x 250 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 10/90%
Buffer	H3PO4 – 0.1%
Flow Rate	10 mL/min
Detection	UV 210 nm

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

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