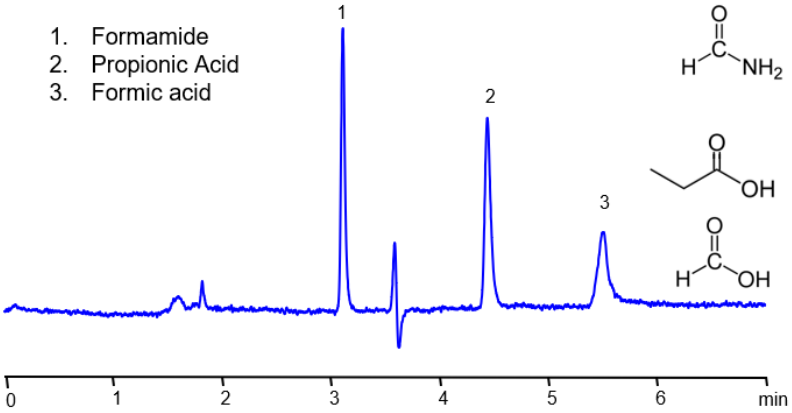
HPLC Method for Simultaneous Determination of Formamide, Propionic Acid and Formic Acid on Newcrom BH Column



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.

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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