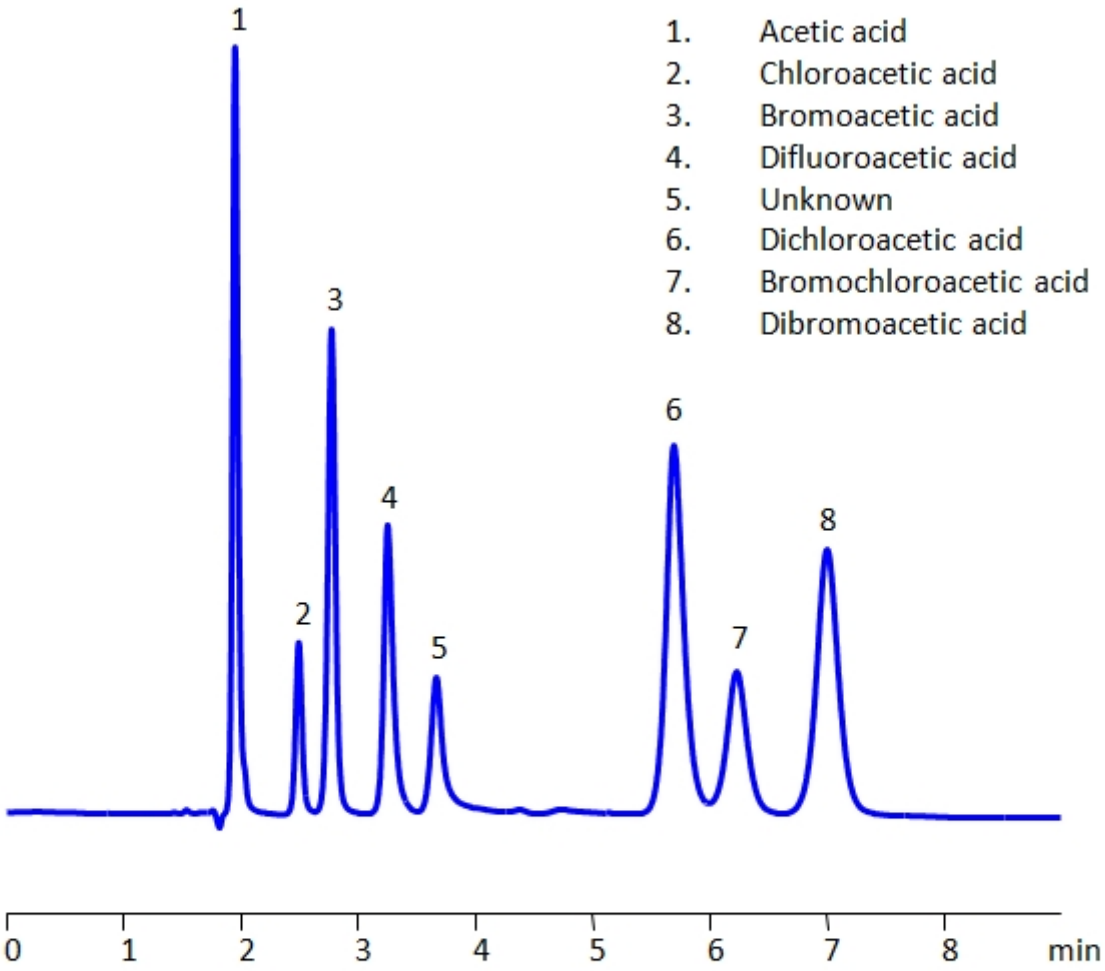
HPLC Separation of Bromoacetic and Chloroacetic Acids on Newcrom BH Column

https://sielc.com/hplc-separation-of-bromoacetic-and-chloroacetic-acids

Chromatogram



Column:	Newcrom BH
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN/H2O – 10/90%
Buffer:	H2SO4 – 0.3%
Flow rate:	1 ml/min
UV detection:	200 nm

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Difluoroacetic acid , Dichloroacetic acid , Dibromoacetic acid , Acetic Acid , Bromoacetic acid , Chloroacetic acid , Bromochloroacetic acid .

Acetic acid and its various chloro- and bromo- forms are widely used in organic chemistry. Their similar structure makes the acids difficult to retain and separate on reverse-phase HPLC columns. By using Newcrom BH mixed-mode column which also has ion-exchange properties, the separation can be achieved with a simple isocratic method and relatively short time with a mobile phase of acetonitrile (ACN), water and sulfuric acid (H2SO4) buffer. UV detection at 200nm.

Method Parameters

Mobile Phase	MeCN/H2O – 10/90%
Buffer	H2SO4 – 0.3%
Flow Rate	1.0 ml/min
Detection	UV 200nm
Class of Compounds	Acid
Analyzing Compounds	Difluoroacetic acid,Dichloroacetic acid,Dibromoacetic acid,Acetic Acid,Bromoacetic acid,Chloroacetic acid,Bromochloroacetic acid

HPLC Column Used

Newcrom BH, 4.6 x 150 mm, 5 µm, 100 A, dual ended

Order this column at hplc-shop.de →