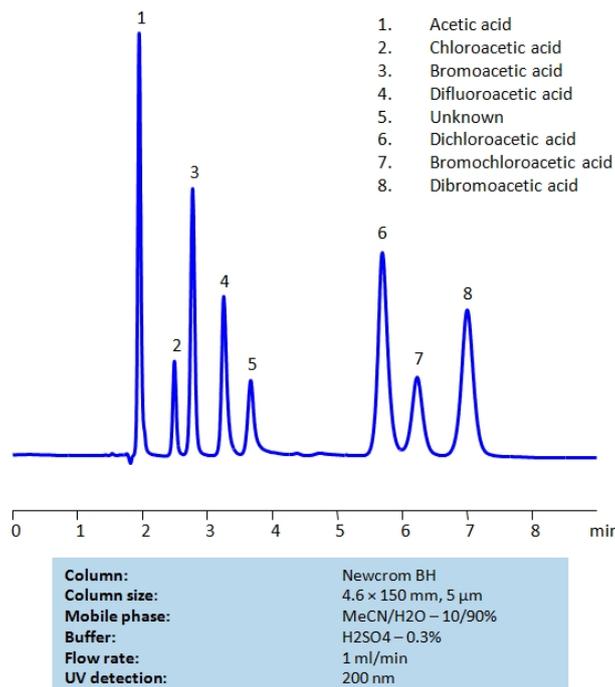


HPLC Separation of Bromoacetic and Chloroacetic Acids on Newcrom BH Column



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 200 nm.

Method Parameters

Column	Newcrom BH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 10/90%
Buffer	H ₂ SO ₄ – 0.3%
Flow Rate	1.0 mL/min
Detection	UV 200 nm

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