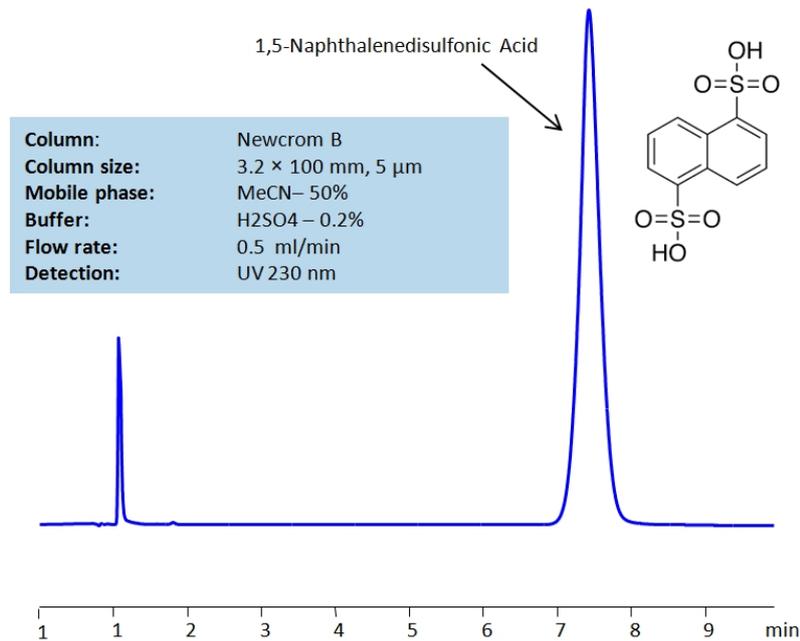


HPLC Determination of 1,5-Naphthalenedisulfonic Acid on Newcrom B Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of 1,5-Naphthalenedisulfonic Acid .

1,5-Naphthalenedisulfonic acid , also known as Armstrong's acid , is a strong organic acid with a double charge. It has the chemical formula C₁₀H₈S₂O₆ .

Multi-charged molecules generally have a tendency to exhibit poor peak shape in HPLC on reverse-phase columns showing significant tailing. 1,5-Naphthalenedisulfonic Acid can be retained with great peak shape on a Newcrom B mixed-mode column. The Newcrom line of columns was designed specifically for improved peak shape of multi-charged molecules. The method uses a mobile phase consisting of acetonitrile (ACN), water and ammonium formate buffer, making the method MS-compatible. UV detection at 260 nm can also be used.

Method Parameters

Column	Newcrom B, 3.2 x 100 mm, 5 μm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 70/30%
Buffer	Ammonium Formate pH 3.0 – 40 mM
Flow Rate	0.5 mL/min
Detection	UV 285 nm

Quelle: <https://sielc.com/hplc-determination-of-15-naphthalenedisulfonic-acid-on-newcrom-bh-column-2>