

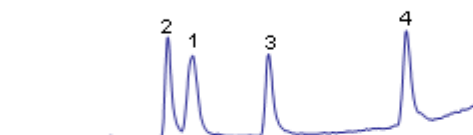
HPLC Separation of Alkyl Sulfonic Acids

<https://sielc.com/Application-HPLC-Separation-of-Alkyl-Sulfonic-Acids>

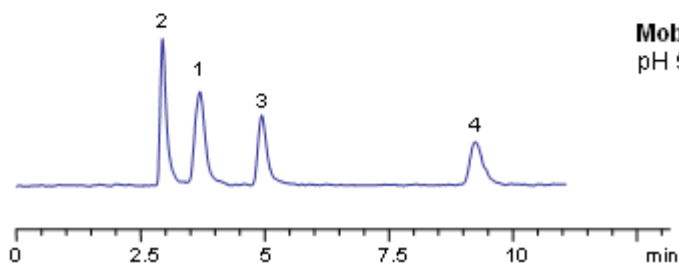
Chromatogram

1. Sodium
2. Hexanesulphonic Acid
3. Heptanesulphonic Acid
4. Octanesulphonic Acid

Column: Primesep 500
Column size: 150 x 4.6 mm
Flow rate: 1.0 mL/min
Detection: ELSD
Injection: 25 µL



Mobile phase: MeCN –gradient 5-25% in 10 min, gradient AmAc no pH 50-10 mM in 10 min



Mobile phase: MeCN –7%, gradient AmAc no pH 50-10 mM in 10 min

Description

Alkyl sulphonic acids are used as surfactant additives in many products. Homologs of linear alkyl sulfonates are separated on a Primesep 500 mixed-mode cation exchange column in reversed-phase anion-exclusion mode. This generic method can be used for determination of alkyl sulfonates in detergents, soaps, etc.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	AmAc
Flow Rate	1.0 ml/min
Detection	ELSD
Class of Compounds	Acid, Hydrophilic, Ionizable
Analyzing Compounds	Sodium, Hexanesulphonic Acid, Heptanesulphonic Acid, Octanesulphonic Acid

HPLC Column Used

Primesep 500, 4.6x150 mm, 5 µm, 100A

[Order this column at hplc-shop.de](http://hplc-shop.de) →