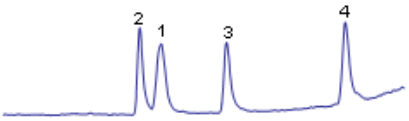
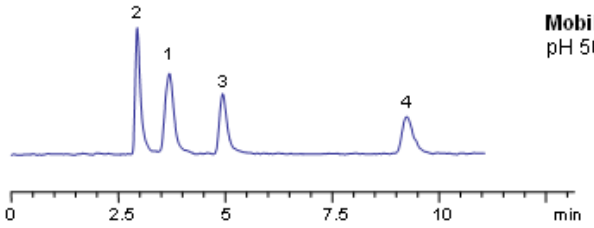
HPLC Separation of Alkyl Sulfonic Acids

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 uL



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

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

Column	Primesep 500, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O
Buffer	AmAc
Flow Rate	1.0 mL/min
Detection	ELSD

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