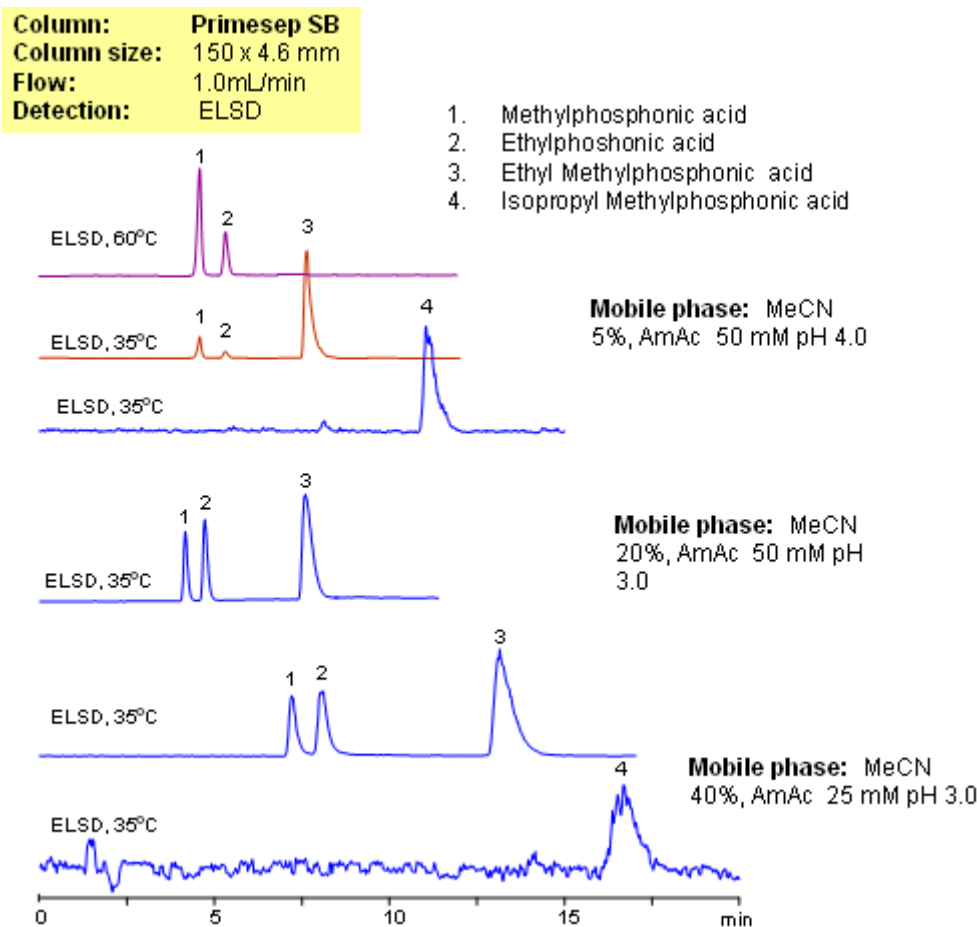


HPLC Separation of Methylphosphonic Acid and Related Products

<https://sielc.com/Application-HPLC-Separation-of-Methylphosphonic-Acid-and-Related-Products>

Chromatogram



Description

Alkylphosphonic acids are decomposition byproducts of chemical warfare agents. Analysis of phosphonic acid in water is regulated by Environmental Protection Agency (EPA). All phosphonic acids are polar acidic compounds. Analysis for retention and separation of methylphosphonic, ethylphosphonic, ethyl methylphosphonic and isopropyl methylphosphonic acids was developed using Primesep SB reversed-phase anion-exchange column. Method is compatible with LC/MS and can be used for quantitation of phosphonic acid in water.

Method Parameters

Mobile Phase	MeCN
Buffer	AmAc
Flow Rate	1.0 ml/min
Detection	ELSD
Class of Compounds	Acid, Hydrophilic, Ionizable
Analyzing Compounds	Methylphosphonic, Ethylphosphonic, Ethyl methylphosphonic, Isopropyl methylphosphonic acids

HPLC Column Used

Primesep SB, 4.6×150 mm, 5 µm, 100A

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