

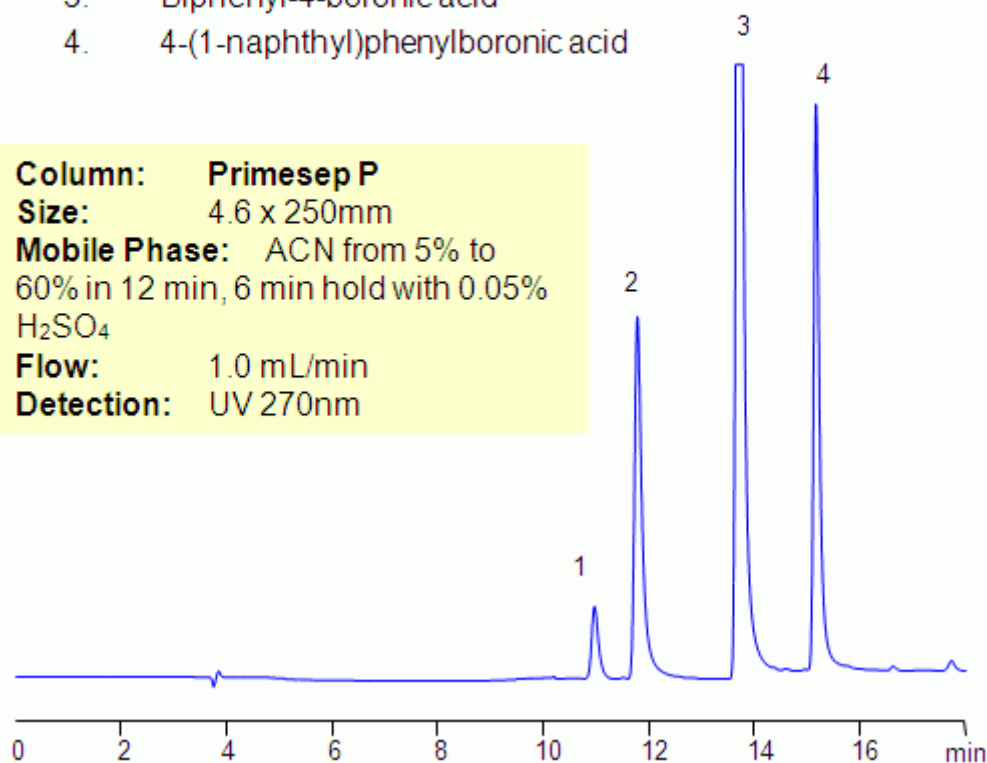
HPLC Separation of Aromatic Boronic Acids on Primesep P

<https://sielc.com/Application-HPLC-Separation-of-Aromatic-Boronic-Acids>

Chromatogram

1. Chlorohenyl-4-boronic acid
2. Naphtalene-1-boronic acid
3. Biphenyl-4-boronic acid
4. 4-(1-naphthyl)phenylboronic acid

Column: Primesep P
Size: 4.6 x 250mm
Mobile Phase: ACN from 5% to 60% in 12 min, 6 min hold with 0.05% H₂SO₄
Flow: 1.0 mL/min
Detection: UV 270nm



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Description

Boronic acid is alkyl, or aryl substituted, boric acid. Boronic acid can form complexes with sugars, amines, and amino acids. Four aromatic boronic acids were separated on a Primesep P mixed-mode reversed-phase cation-exchange column. Primesep P column also has an aromatic fragment which provides pi-pi interaction. Compounds can be monitored by UV, ELSD, CAD and LC/MS. Various mobile phases can be employed for HPLC analysis of boronic acids.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	H ₂ SO ₄
Flow Rate	1.0 ml/min
Detection	UV 270 nm
Class of Compounds	Drug, Acid, Hydrophobic, Ionizable

Analyzing Compounds

Chlorophenyl-4-boronic acid, Naphtalene-1-boronic acid, Biphenyl-4-boronic acid, 4-(1-naphthyl)phenylboronic acid

HPLC Column Used

Primesep P, 4.6x150 mm, 5 µm, 100A

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