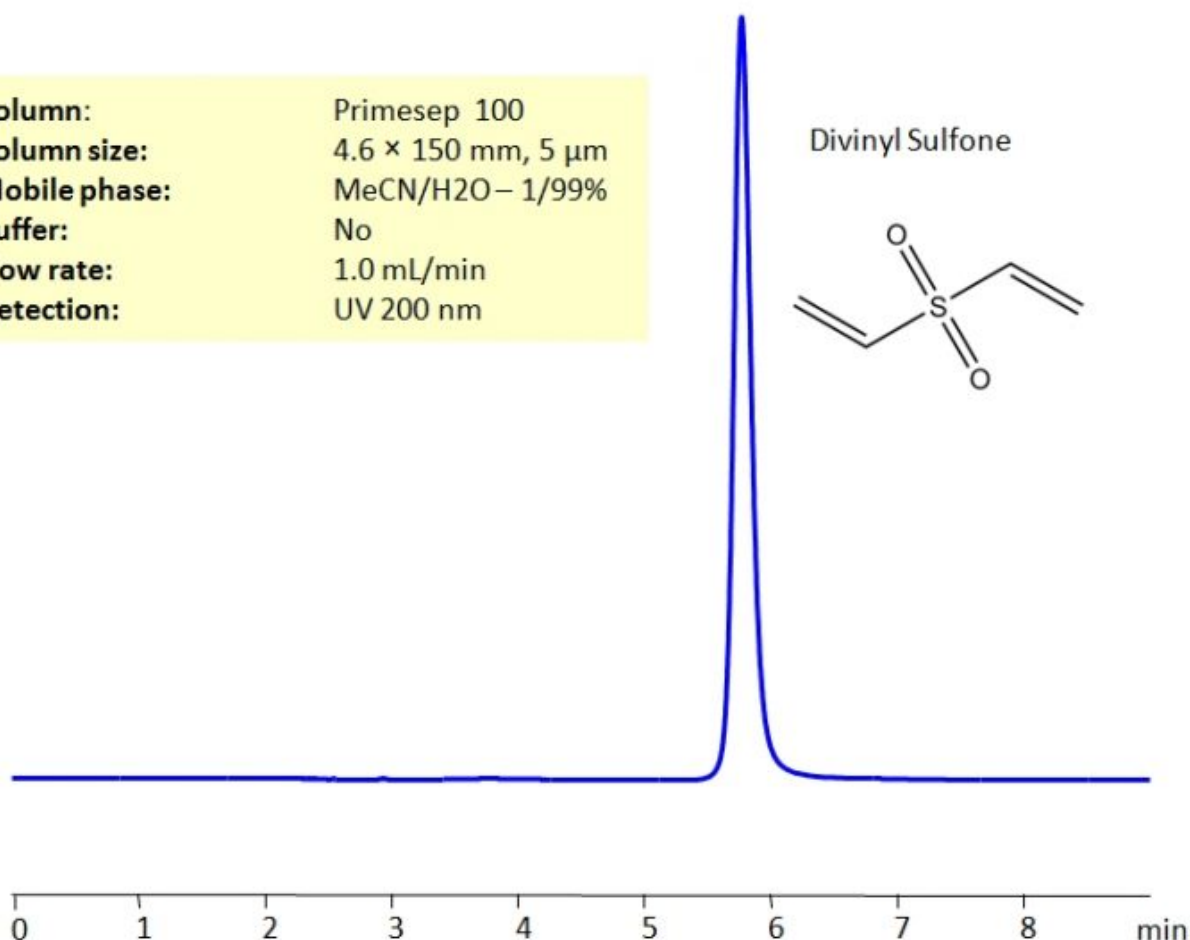


HPLC Determination of Divinyl Sulfone on Primesep 100 Column

<https://sielc.com/hplc-determination-of-divinyl-sulfone>

Chromatogram

Column: Primesep 100
Column size: 4.6 × 150 mm, 5 µm
Mobile phase: MeCN/H₂O – 1/99%
Buffer: No
Flow rate: 1.0 mL/min
Detection: UV 200 nm



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Divinyl Sulfone

Divinyl sulfone (C₄H₆O₂S) is an organic compound with a vinyl group (-CH=CH₂) attached to a sulfone group (-SO₂-). It's a colorless liquid that is used in organic synthesis and polymer chemistry due to its ability to act as a crosslinker.

Applications :

In practical use, divinyl sulfone's reactivity needs to be carefully controlled, as its ability to crosslink can lead to the formation of highly crosslinked, insoluble polymers if not properly managed. Divinyl sulfone acts as a cross-linking reagent for agarose gels. It is a monomer used in the production of polymers with diols, urea and malonic esters.

Divinyl sulfone can be retained on a Primesep 100 mixed-mode column with great peak shape using an isocratic method of 1/99 Acetonitrile (ACN) and water. UV Detection 200 nm.

Method Parameters

Mobile Phase

MeCN – 1.0%

Buffer	No
Flow Rate	1.0 ml/min
Detection	200 nm
Peak Retention Time	5.8 min
LOD*	50 ppb
Sample(Divinyl Sulfone (stabilized with HQ))	0.2 mg/ml in H2O
Injection volume	1 µl
Class of Compounds	Vinyl Monomer, Sulfone
Analyzing Compounds	Divinyl sulfone

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 A, dual ended

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