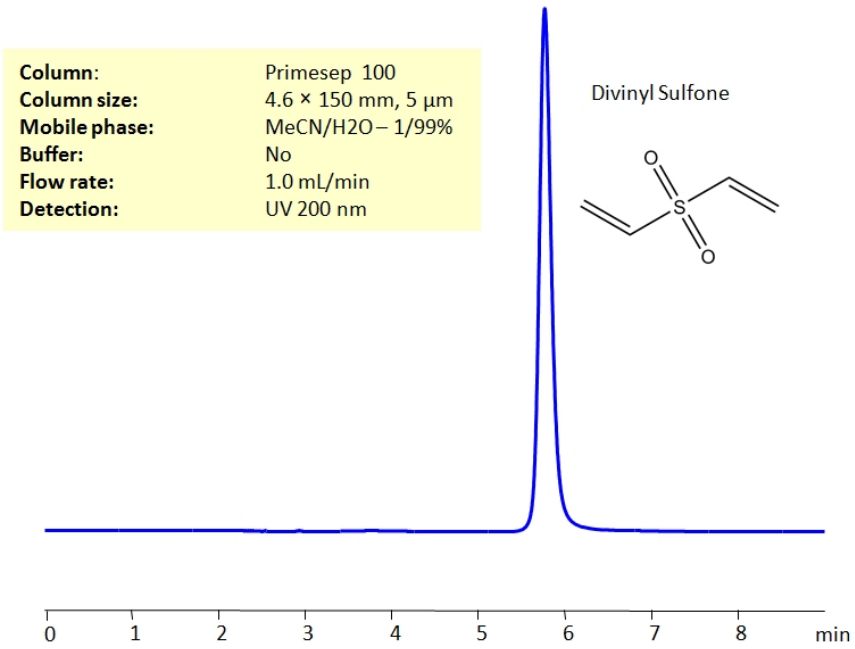
HPLC Determination of Divinyl Sulfone on Primesep 100 Column



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.

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.

*LOD was determined for this combination of instrument, method, and analyte, and it can vary from one laboratory to another even when the same general type of analysis is being performed

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Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 1.0%
Buffer	No
Flow Rate	1.0 mL/min
Detection	200 nm
Injection Volume	1 µl

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