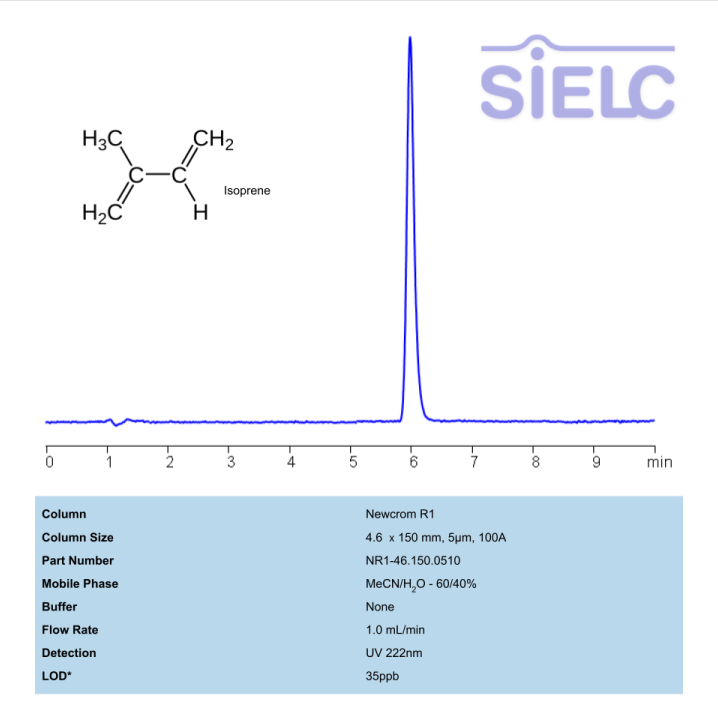
HPLC Method for Analysis of Isoprene on Newcrom R1 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Isoprene

Isoprene is a volatile organic compound with the molecular formula C5 H8 . It is most often found in plants and is released as protection from heat stress. It also helps with maintaining cell membrane stability. Isoprene emissions are also the reasons why Blue Ridge Mountains have a blue haze.

Isoprene can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using UV 222 nm.

You can find detailed UV spectra of Isoprene and information about its various lambda maxima by visiting the following link.

Method Parameters

Column	Newcrom R1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 60%
Buffer	None
Flow Rate	1.0 mL/min
Detection	UV 222

Quelle: https://sielc.com/hplc-elsd-method-for-analysis-of-isoprene