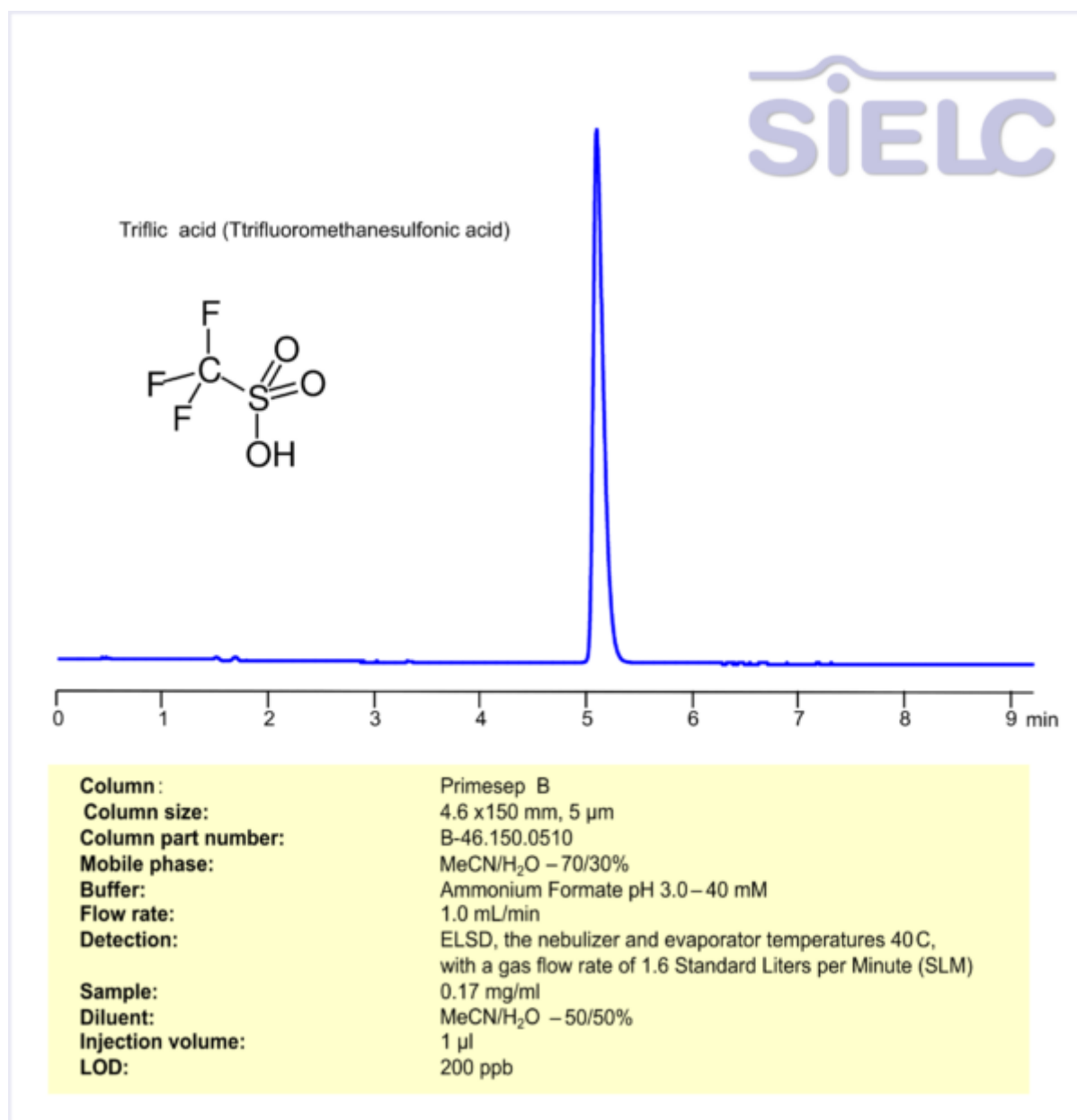


ELSD HPLC Method for Analysis of Triflic acid on Primesep B Column

https://sielc.com/hplc_method-for-analysis-triflic-acid

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Triflic acid · Triflic acid, also known as trifluoromethanesulfonic acid, is a superacid with the chemical formula: CF3SO3H

Triflic acid can be retained and analyzed using the Primesep B mixed mode column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile and ammonium formate. Detection is performed using ELSD.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 70/30%
Buffer	Ammonium Formate pH 3.0 – 40 mM

Flow Rate	1.0 ml/min
Detection	ELSD, the nebulizer and evaporator temperatures 40°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
LOD	200 ppb
Class of Compounds	Acid
Analyzing Compounds	Triflic acid

HPLC Column Used

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

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