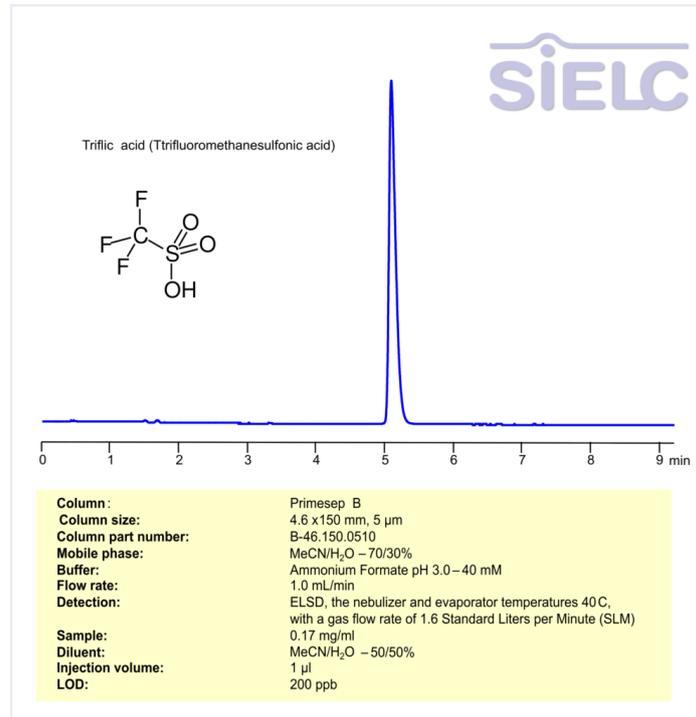


ELSD HPLC Method for Analysis of Triflic acid on Primesep B Column



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:

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.

*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.

Method Parameters

Column	Primesep B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
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)
Limit of Detection	200 ppb

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