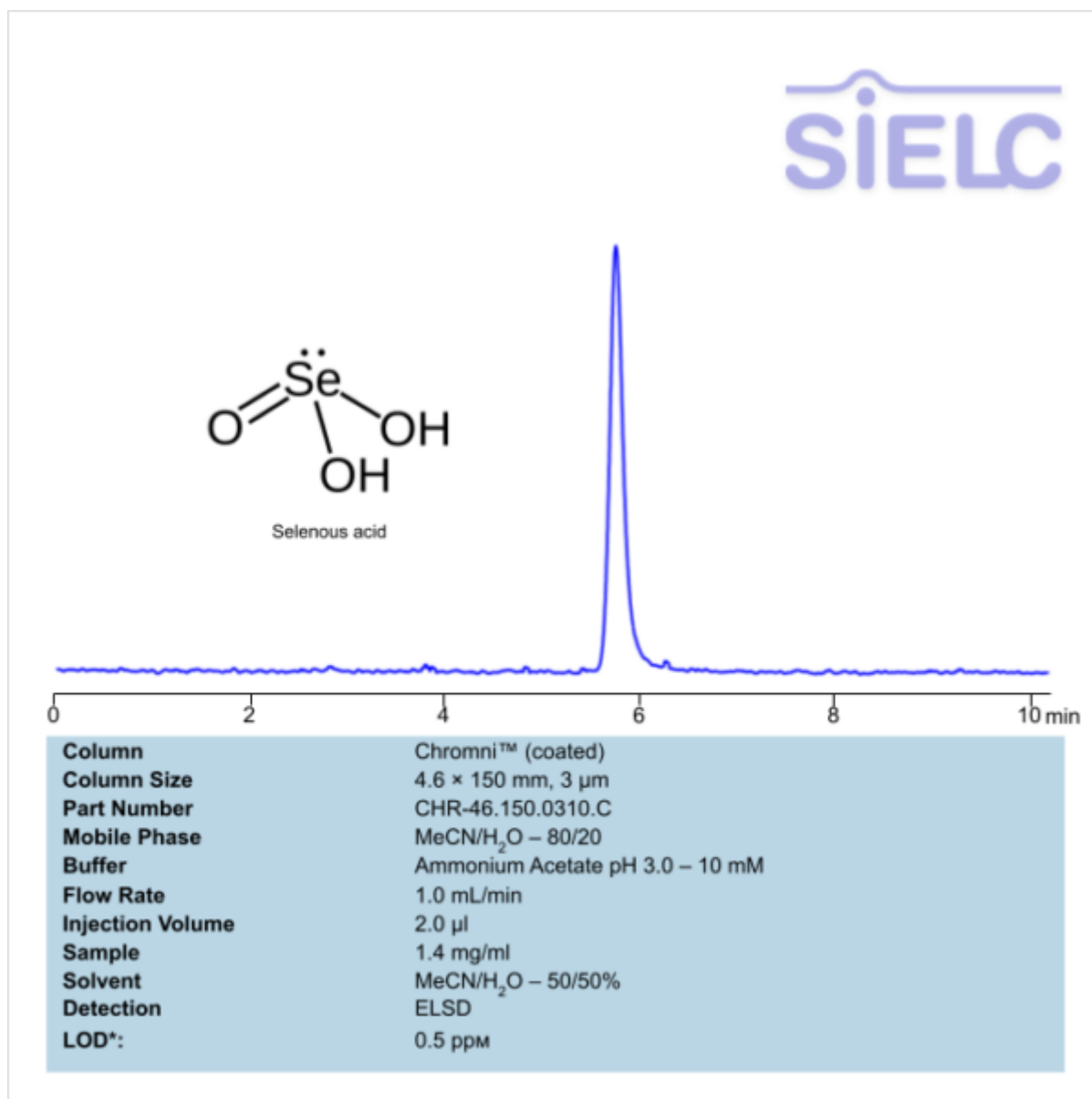


HPLC Method for Analysis of Selenous Acid on Chromni Column

<https://sielc.com/hplc-method-for-analysis-of-selenous-acid-2>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Selenious Acid .

Selenous Acid , also known as selenious acid , is a compound with the formula H_2SeO_3 . It is used primarily to change the color of steel when used in a process with copper (II) nitrate and nitric acid. The process, known as cold-bluing, causes steel to change from a grey to blue-grey or even black. It can be used to darken other metals as well. You can find detailed UV spectra of Selenious Acid and information about its various lambda maxima by visiting the following link.

Selenious Acid can be retained and analyzed using the Chromni stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using ELSD.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 80/20
Buffer	AmAc pH 3.0 – 10 mM
Flow Rate	1.0 ml/min
Detection	ELSD, the nebulizer and evaporator temperatures 50°C with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
LOD*	0.5 ppm
Class of Compounds	Acid
Analyzing Compounds	Selenious Acid

HPLC Column Used

Chromni, 4.6 x 150 mm, 3 µm, 100 Å, surface coated

[Order this column at hplc-shop.de →](#)