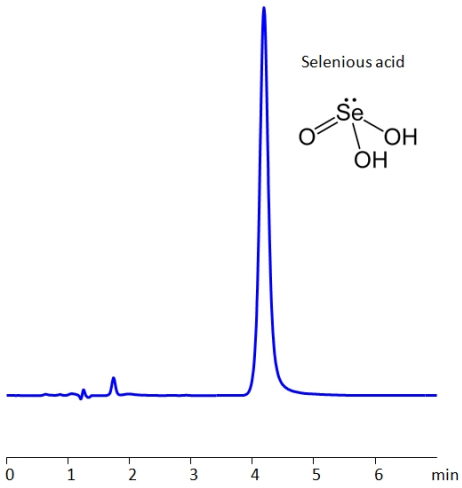
HPLC Method for Analysis of Selenious Acid (Se 4 + form) on Newcrom BH Column



Column:	Newcrom BH
Column size:	3.2 × 100 mm, 5 µm
Mobile phase:	MeCN – 10%
Buffer:	H3PO4 – 0.1%
Flow rate:	0.5 ml/min
UV detection:	UV 200 nm

Selenious Acid is used in protecting and changing the color of steel, most often in weaponry. It is highly toxic in excessive quantities, and if ingested, it could lead to death. The Acid is also capable of penetrating the skin and can produce acute poisonings. Newcrom BH, a reverse-phase column, contains embedded basic ionizable groups and can retain Selenious Acid. The method is UV compatible and can be used as a general approach for analyzing similar compounds.

Method Parameters

Column	Newcrom BH, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 10/90%
Buffer	H3PO4 – 0.1%
Flow Rate	0.5 mL/min
Detection	UV, 200 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-selenious-acid