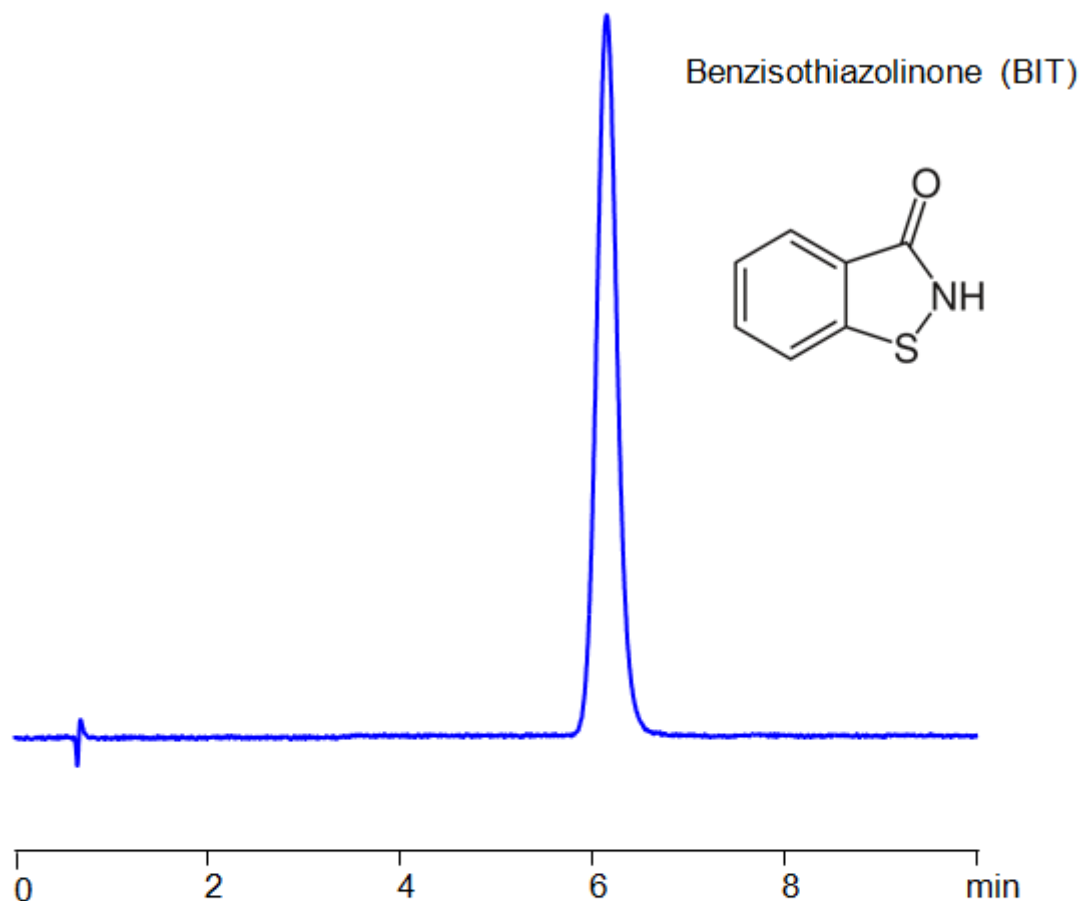


HPLC Method for Analysis of Benzisothiazolinone (BIT) on Newcrom R1 Column

<https://sielc.com/hplc-method-for-analysis-of-benzisothiazolinone-bit>

Chromatogram



Column:	Newcrom R1
Column size:	3.2 × 50 mm, 5 µm
Column part number:	NR1-32.50.0510
Mobile phase:	MeCN/H ₂ O – 10/90%
Buffer:	TFA – 0.1%
Flow rate:	0.5 mL/min
UV detection:	275 nm

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Benzisothiazolinone (BIT), 1,2-benzisothiazol-3(2H)-one .

Benzisothiazolinone , also written as BIT , is a microbicide and fungicide with the chemical formula C₇H₅NOS . It is used primarily as a preservative in a large variety of industries, from paints, to caulks, to cleaning products, to agriculture, and more. It

is banned from being used in cosmetics in the EU. You can find detailed UV spectra of Benisothiazolinone (BIT), 1,2-benzisothiazol-3(2H)-one and information about its various lambda maxima by visiting the following link.

Benisothiazolinone (BIT), 1,2-benzisothiazol-3(2H)-one can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a trifluoroacetic acid buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN – 10%
Buffer	TFA- 0.1%
Flow Rate	0.5 ml/min
Detection	UV 275nm
Class of Compounds	Acid, Hydrophilic
Analyzing Compounds	Benisothiazolinone (BIT), 1,2-benzisothiazol-3(2H)-one

HPLC Column Used

Newcrom R1, 3.2 x 50 mm, 5 µm, 100 A, dual ended

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