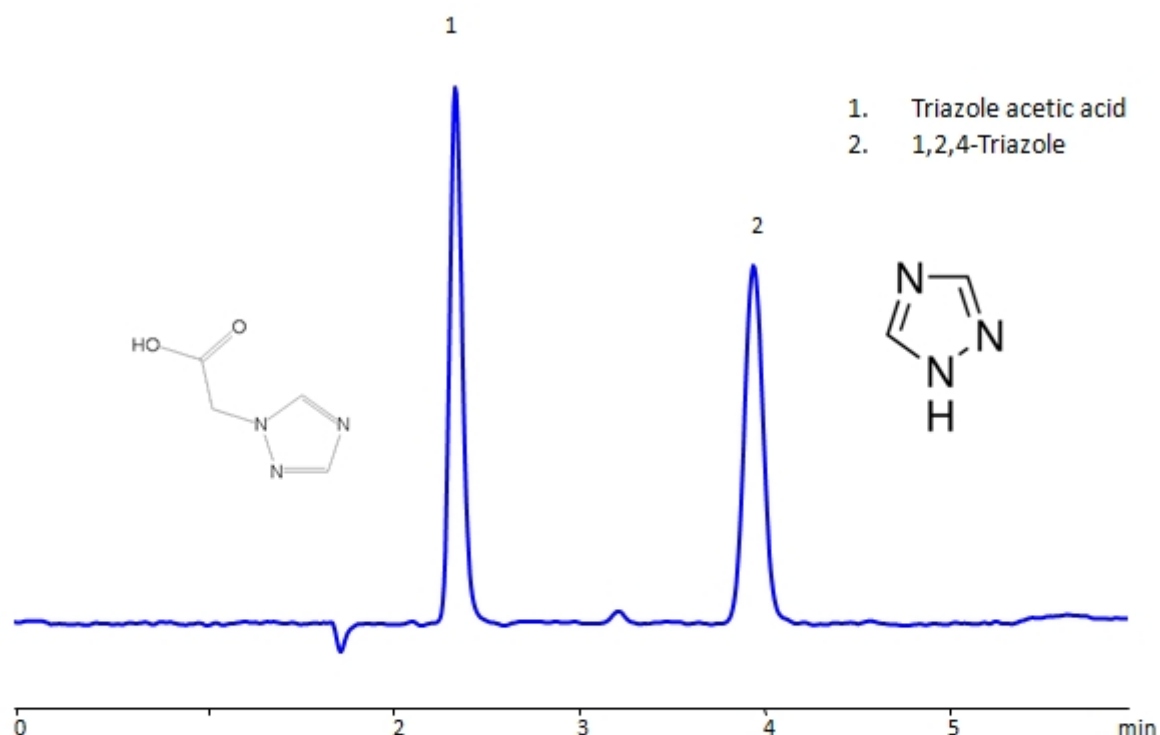


HPLC Separation of Triazole acetic acid and 1,2,4-Triazole on Primesep 100 Column

<https://sielc.com/hplc-determination-of-triazole-acetic-acid-and-123-triazole>

Chromatogram



Column: Primesep 100
Column size: 4.6 × 150 mm, 5 µm
Mobile phase: MeCN/H₂O - 25/75%
Buffer: TFA – 0.1 %
Flow rate: 1.0 ml/min
UV detection: 200 nm

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of 1,2,4-Triazole , Triazole acetic acid

Triazole is a five-membered heterocyclic chemical ring containing three nitrogen atoms and two carbon atoms. It's molecular formula is C₂H₃N₃. It is most commonly used as an antifungal drug. It works through inhibiting an enzyme in fungal cell wall synthesis.

1,2,4-Triazole , Triazole acetic acid can be retained and analyzed using the Primesep 100 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 CAD.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 25/75%
Buffer	TFA – 0.1%
Flow Rate	1.0 ml/min

Detection	CAD (Corona) MS- compatible mobile phase
Class of Compounds	Heterocyclic, Hydrophilic, Base
Analyzing Compounds	1,2,4-Triazole,Triazole acetic acid

HPLC Column Used

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

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