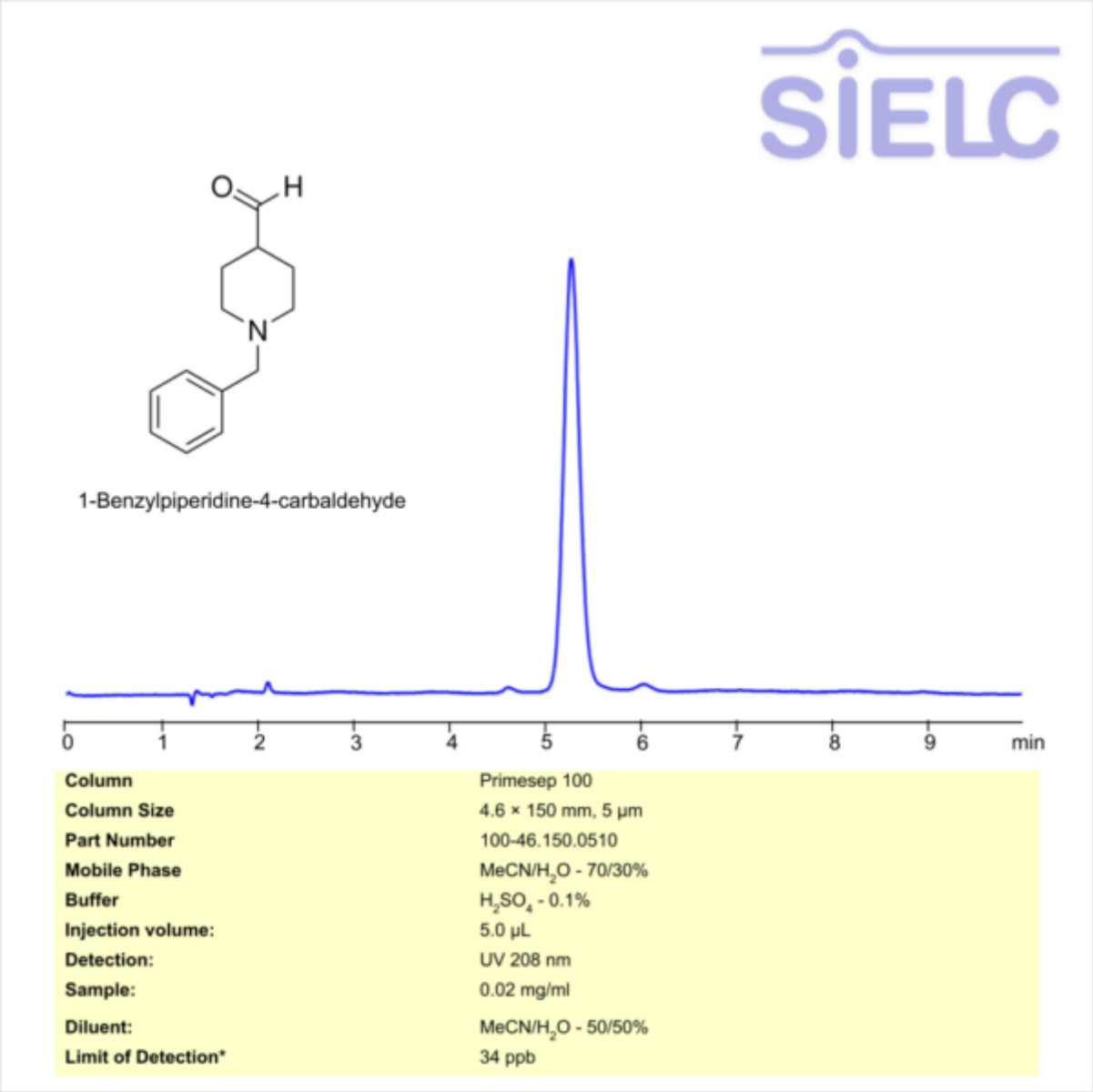
HPLC Method for Separation of 1-Benzylpiperidine-4-carbaldehyde on Primesep 100 Column

https://sielc.com/hplc-analysis-of-1-benzylpiperidine-4-carbaldehyde

Chromatogram



Column	Primesep 100
Column Size	4.6 × 150 mm, 5 µm
Part Number	100-46.150.0510
Mobile Phase	MeCN/H_2O - 70/30%
Buffer	H_2SO_4 - 0.1%
Injection volume:	5.0 µL
Detection:	UV 208 nm
Sample:	0.02 mg/ml
Diluent:	MeCN/H_2O - 50/50%
Limit of Detection*	34 ppb

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of 1-Benzylpiperidine-4-carbaldehyde

1-Benzylpiperidine-4-carbaldehyde is an organic chemical with the chemical formula C 13 H 17 NO . It is primarily used in pharmaceutical and medicinal chemistry research as a building block and as a key intermediate in the synthesis of Donepezil. Its reactive aldehyde group and piperidine ring make it useful for synthesizing biologically active compounds. You can find detailed UV spectra of 1-Benzylpiperidine-4-carbaldehyde and information about its various lambda maxima by visiting the following link.

1-Benzylpiperidine-4-carbaldehyde 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 acetonitrile (MeCN). Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H2O – 70/30%
Buffer	Sulfuric Acid – 0.1%
Flow Rate	1.0 ml/min
Detection	UV 208 nm
Limit of Detection*	34 ppb
Class of Compounds	Organic
Analyzing Compounds	1-Benzylpiperidine-4-carbaldehyde

HPLC Column Used

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

Order this column at hplc-shop.de →