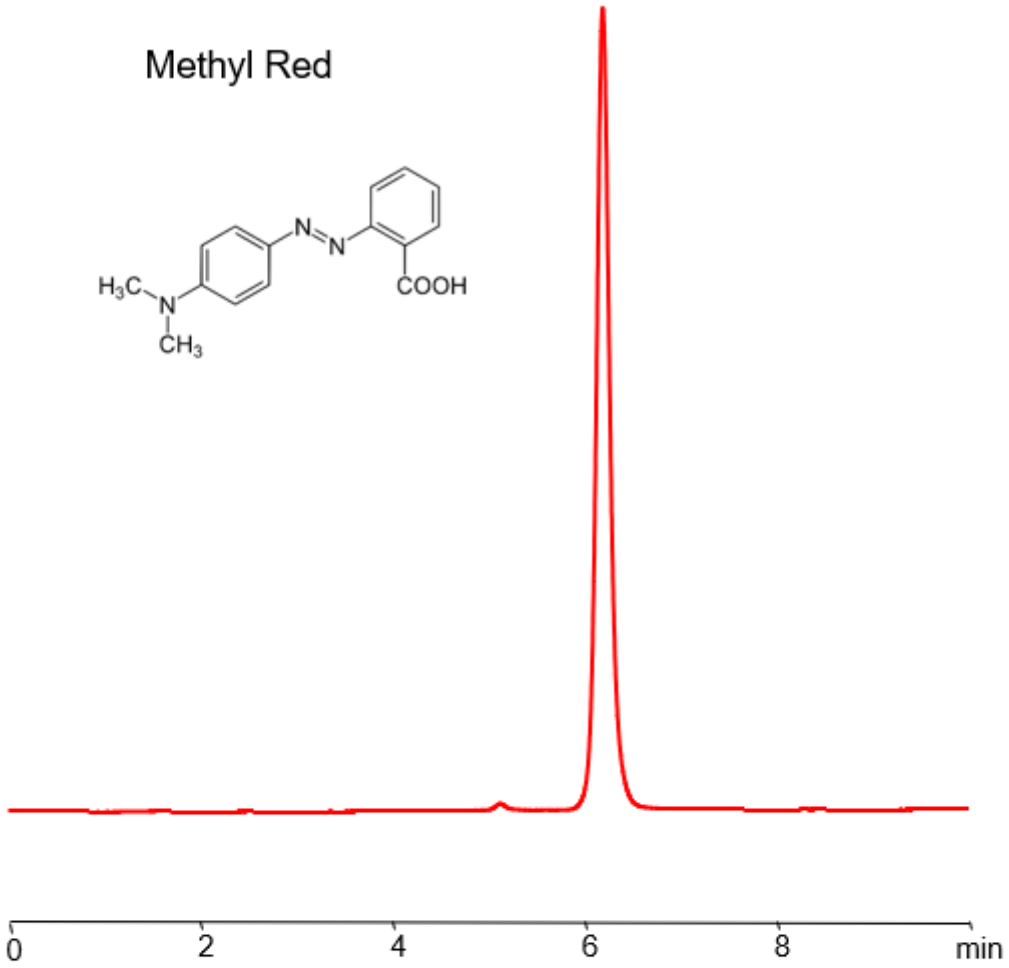
HPLC Method for Analysis of Methyl red on Primesep 100 Column

https://sielc.com/hplc-determination-of-methyl-red

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H_2O – 60/40%
Buffer:	H_2SO_4 - 0.2%
Flow rate:	1.0 mL/min
Detection:	Vis 520 nm

Description

· HPLC Method for Separation of Methyl Red on Primesep 100 Column by SIELC Technologies

Methyl Red , also known as C.I. Acid Red 2 , is a dark-red, single-charged basic dye that turns a deep red in acidic (low pH) solutions and yellow at solution with pH above 6.2. It has the chemical formula C 15 H 15 N 3 O 2 . You can find detailed UV spectra of Methyl Red and information about its various lambda maxima by visiting the following link.

Methyl Red can be retained and analyzed on a Primesep 100 mixed-mode stationary phase column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a sulfuric acid (H2SO4) buffer. This analysis method can be detected in the Visible spectrum at 520 nm.

Method Parameters

Mobile Phase	MeCN/H2O – 60/40%
Buffer	H3PO4 – 0.2%
Flow Rate	1.0 ml/min
Detection	UV, 520 nm
Peak Retention Time	6.19 min
Class of Compounds	Dyes
Analyzing Compounds	Methyl Red

HPLC Column Used

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

Order this column at hplc-shop.de →