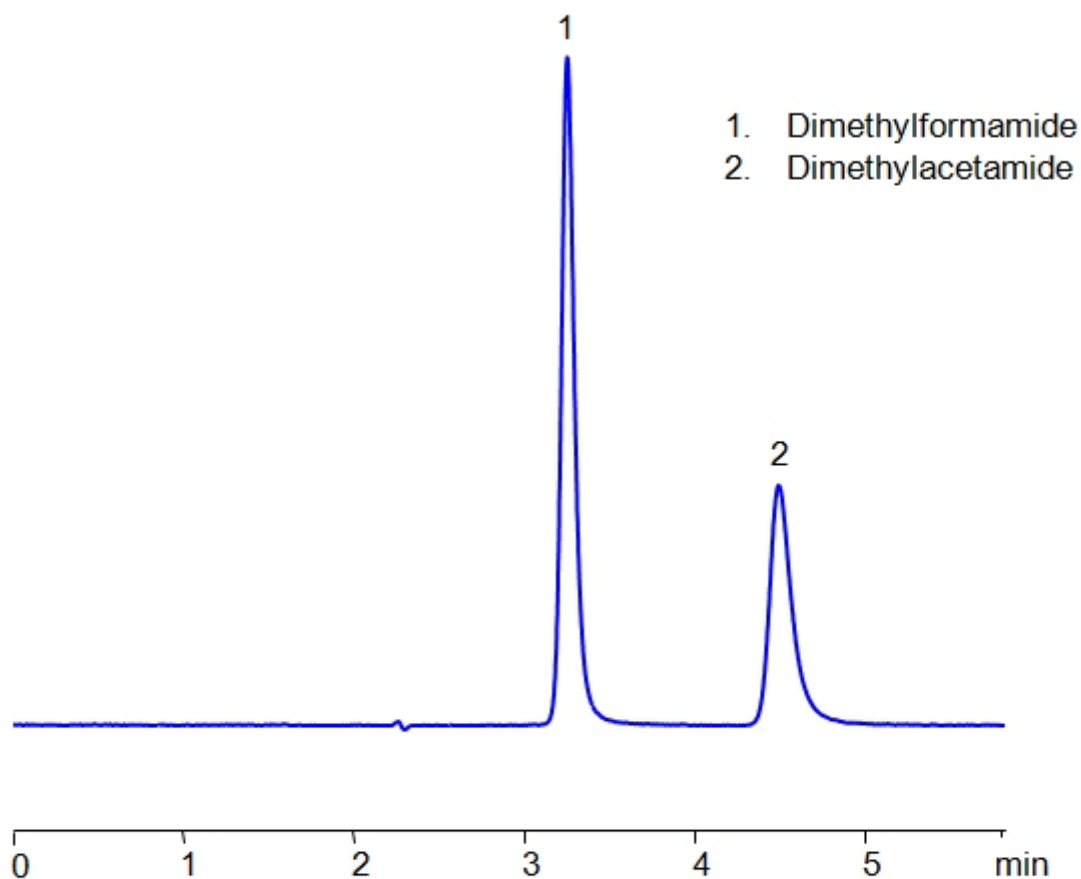


HPLC Method For Analysis Of Dimethylformamide and Dimethylacetamide on Primesep 100 Column

<https://sielc.com/hplc-method-for-analysis-of-dimethylformamide-and-dimethylacetamide>

Chromatogram



Column:	Primesep 100
Column part number:	100-46.150.0510
Size:	4.6 x 150 mm
Mobile phase:	MeCN - 5%
Buffer:	H ₃ PO ₄ – 0.2%
Flow:	1.0 mL/min
Detection:	UV 200 nm

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of DMF (Dimethylformamide) , DMA (Dimethylacetamide)

Dimethylformamide , also written as DMF , is an organic compound with the chemical formula $\text{HCON}(\text{CH}_3)_2$. It is primarily used as a solvent for chemical reactions due to it's low evaporation rate. It is used in the production of acrylic fibers, adhesives, synthetic leathers, and plastics. Pharmaceutically, it is used as a solvent in peptide coupling and the production of pesticides.

Dimethylacetamide , also written as DMAc and DMA , is an organic compound with the chemical formula C₄H₉NO . It is used primarily as a polar solvent in organic synthesis. Since 2014, DMA has been under investigation due to it's toxicity.

DMF (Dimethylformamide) , DMA (Dimethylacetamide) 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 [buffer] buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 5/95%
Buffer	H ₃ PO ₄ – 0.2%
Flow Rate	1.0 ml/min
Detection	UV, 200 nm,
Class of Compounds	Amide
Analyzing Compounds	DMF (Dimethylformamide),DMA (Dimethylacetamide)

HPLC Column Used

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

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