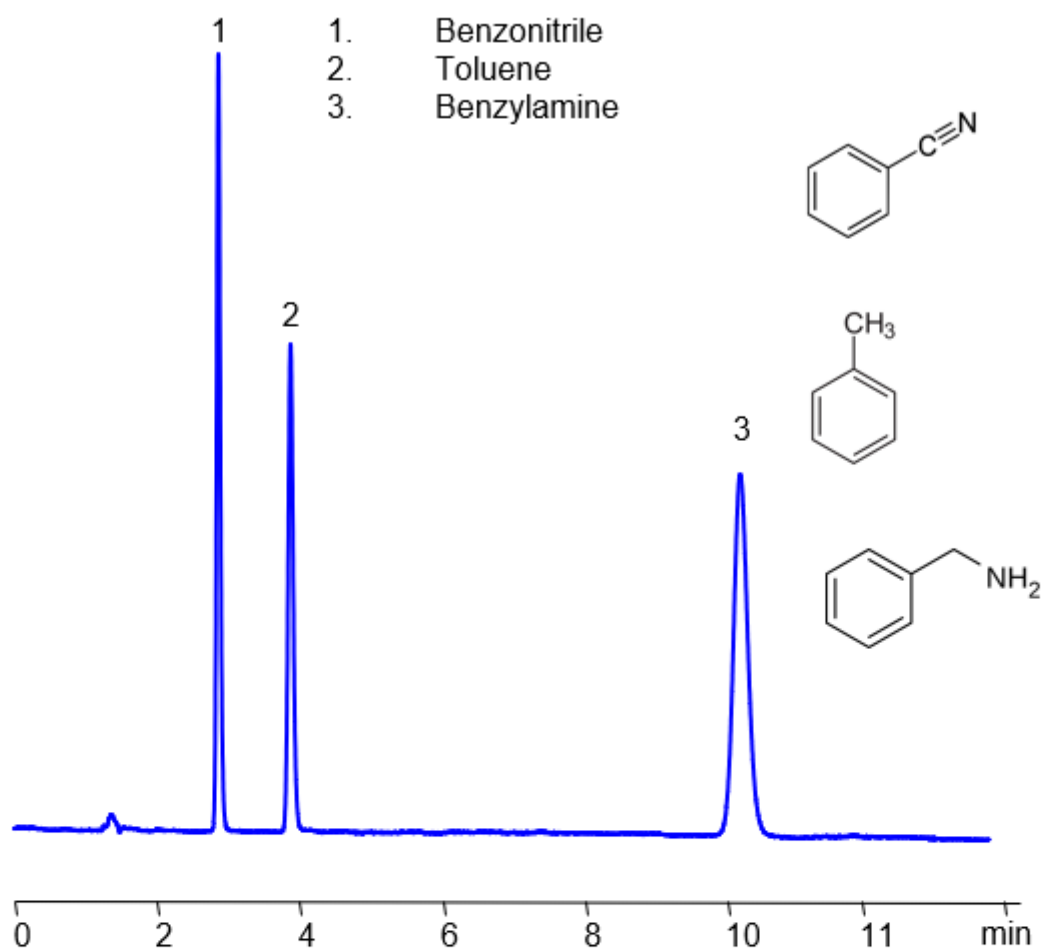


HPLC Method for Separation of Benzonitrile, Toluene and Benzylamine on Primesep A Column

<https://sielc.com/hplc-separation-of-aromatics>

Chromatogram



Column:	Primesep A
Part #:	A-46.150.0510
Column size:	4.6 × 150 mm, 5 μm 100A
Mobile phase:	MeCN/H ₂ O -60/40%
Buffer:	H ₂ SO ₄ – 0.1%
Flow rate:	1.0 mL/min
Detection:	UV 210 nm

Description

· Separation type: Liquid Chromatography Mixed-mode

These chemicals are widely used in organic synthesis. Please handle these substances with care, as they can have hazardous effects. Always refer to the safety data sheets for each chemical and adhere to recommended safety procedures.

These three compounds be separate and analyzed on a reverse-phase Primesep A, 4.6 x 150 mm, 5 µm, 100 A, dual ended column with a mobile phase consisting of water, Acetonitrile (MeCN) and Sulfuric acid as a buffer modifier. This analysis method can be UV detected at 210 nm.

LOD was determined for this combination of instrument, method, and analyte, and it can vary from one laboratory to another even when the same general type of analysis is being performed.

Method Parameters

Mobile Phase	MeCN/H2O -60/40%
Buffer	H2SO4
Flow Rate	1.0 ml/min
Detection	UV 210 nm
Peaks Retention Time	2.9, 4.0, 10.2 min
Samples concentration(Benzonitrile, Toluene, Benzylamine)	0.04, 0.05, 0.07 mg/ml
Injection volume	3 µl
Sample diluent	MeCN/H2O -60/40%
LOD(Benzonitrile, Toluene, Benzylamine)	27, 65, 103 ppb
Class of Compounds	Benzene, Aromatics
Analyzing Compounds	Benzonitrile, Toluene, Benzylamine

HPLC Column Used

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

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