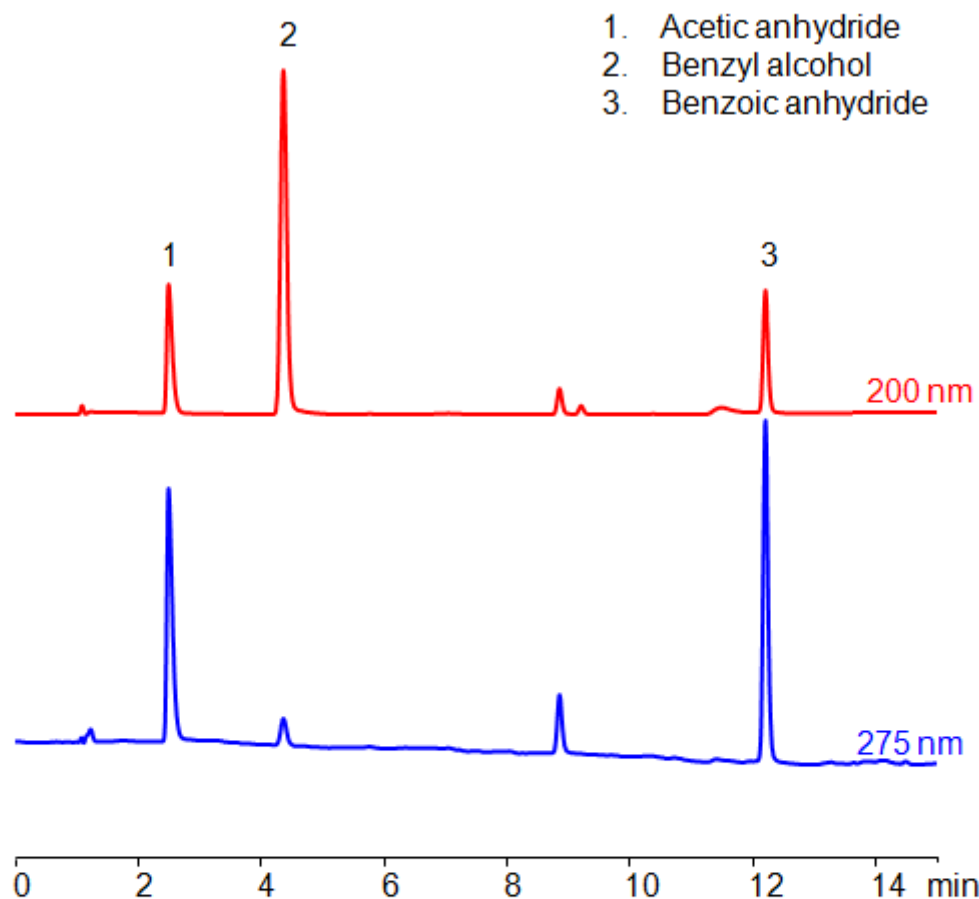


HPLC Method for Analysis of Acetic Anhydride, Benzyl Alcohol and Benzoic Anhydride on Newcrom R1 Column

<https://sielc.com/hplc-method-for-analysis-of-acetic-anhydride-benzyl-alcohol-and-benzoic-anhydride>

Chromatogram



Column:	Newcrom R1
Column size:	3.2 × 100 mm, 5 µm
Column part number:	NR1-32.100.0510
Mobile phase:	Gradient MeCN – 20-100%, 15 min
Buffer:	No
Flow rate:	0.5 mL/min
UV detection:	200 , 275 nm

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Acetic anhydride , Benzoic anhydride , Benzyl alcohol .

Acetic Anyhydride , also known as ethanoic anhydride and Ac_2O , is a compound with the chemical formula $\text{C}_4\text{H}_6\text{O}_3$. It is a common reagent in organic synthesis, particularly in the acetylation of alcohols, amines, and aromatic rings. It is used widely in the production of cellulose acetate and heroin. It's most common use is in the conversion of cellulose to cellulose acetate as well as in the production of aspirin, which is also known as acetylsalicylic acid).

Benzyl alcohol , also known as a-cresol) is a popular organic solvent and preservative with the chemical formula C_7H_8O . It is found in over-the-counter medications, topical creams, lotions, shampoos, and facial cleansers as an antibacterial, preservative, and fungicide. It's a colorless liquid with a mild pleasant aromatic scent and is found in a variety of plants, primarily fruit, teas, and essential oils. You can find detailed UV spectra of Benzyl alcohol and information about its various lambda maxima by visiting the following link.

Benzoic Anhydride is the more active analogue of benzoic acid formed via dehydration. It has the chemical formula $C_{14}H_{10}O_3$. Benzoic anhydride is used as a benzoylating agent in the manufacture of pharmaceuticals, intermediates and dyes. It is considered the simplest symmetrical aromatic acid anhydride. You can find detailed UV spectra of Benzoic anhydride and information about its various lambda maxima by visiting the following link.

Acetic anhydride , Benzoic anhydride , Benzyl alcohol can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using UV.

Method Parameters

Mobile Phase	Gradient MeCN – 20-100%
Buffer	No
Flow Rate	0.5 ml/min
Detection	UV 200, 275nm
Class of Compounds	Acid, Hydrophilic
Analyzing Compounds	Acetic anhydride,Benzoic anhydride,Benzyl alcohol

HPLC Column Used

Newcrom R1, 3.2 x 100 mm, 5 μ m, 100 A, dual ended

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