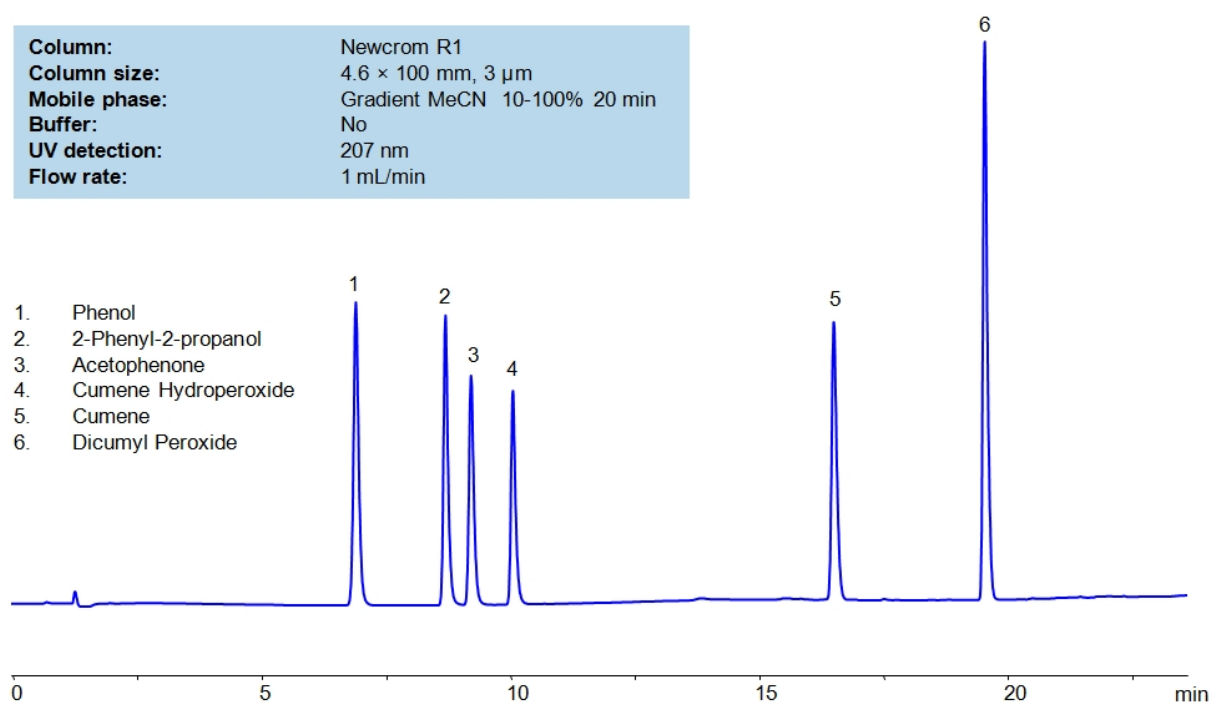


HPLC Method for Phenol – Acetone Production and Impurities

<https://sielc.com/hplc-method-for-phenol-acetone-production-and-impurities>

Chromatogram

Column: Newcrom R1
Column size: 4.6 × 100 mm, 3 µm
Mobile phase: Gradient MeCN 10-100% 20 min
Buffer: No
UV detection: 207 nm
Flow rate: 1 mL/min



Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Phenol, 2-Phenyl-propanol, Acetophenone, Cumene Hydroperoxide, Cumene, Dicumyl Peroxide

Phenol is an organic compound with the molecular formula C_6H_5OH . · Properties: Appearance: Typically white crystals that turn a light pink due to oxidation. · Molecular weight: ~94.11 g/mol · Solubility: Soluble in water and alcohol. · Uses: Topical skin disinfectant. · 2-Phenyl-propanol is an organic compound with the molecular formula $C_9H_{12}O$.

Method Parameters

Mobile Phase	Gradient MeCN – 10-100%, 20 min
Buffer	No
Flow Rate	1.0 ml/min
Detection	UV, 207 nm
Class of Compounds	Neutral, Basic, Hydrophobic
Analyzing Compounds	Acetophenone,Dicumyl peroxide,Cumene hydroperoxide,Cumene,Phenol

HPLC Column Used

Newcrom R1, 4.6 x 100 mm, 3 µm, 100 A, dual ended

[Order this column at hplc-shop.de →](#)