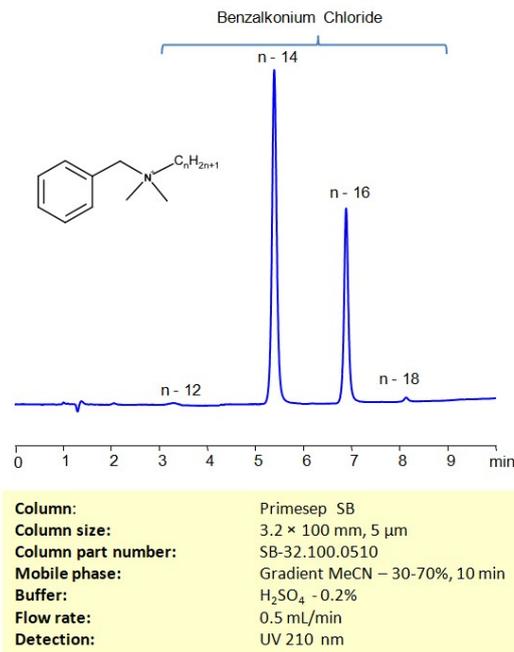


## HPLC Method for Analysis of Benzalkonium Chloride on Primesep SB Column



Separation type: Liquid Chromatography Mixed-mode

Benzalkonium chloride, also known as Zephiran or Alkyldimethylbenzylammonium chloride, is a positively charged surfactant often used as a pharmaceutical preservative and as an antiseptic. Benzalkonium Chloride can be retained on a mixed-mode stationary phase Primesep SB column with embedded strong basic ion-pairing groups, using a gradient analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) ionic modifier. This analysis method can be UV detected at 210 nm with high resolution and peak symmetry.

### Method Parameters

<b>Column</b>	Primesep SB, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	Gradient MeCN – 30-70%, 10 min
<b>Buffer</b>	H <sub>2</sub> SO <sub>4</sub> – 0.2%
<b>Flow Rate</b>	0.5 mL/min
<b>Detection</b>	UV 210 nm

Quelle: <https://sielc.com/hplc-determination-of-benzalkonium>