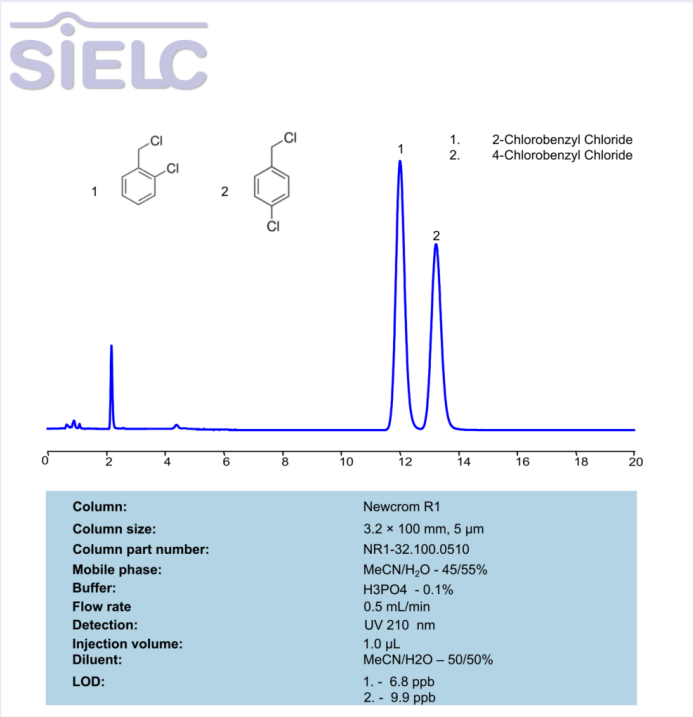
HPLC Method for Analysis of 2-Chlorobenzyl Chloride and 4-Chlorobenzyl Chloride on Newcrom R1 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of 2-Chlorobenzyl chloride , 4-Chlorobenzyl chloride

2-Chlorobenzyl Chloride Pharmaceutical intermediate – used to build drugs with chlorinated aromatic structures.

Agrochemicals – precursor for pesticides and herbicides.

Organic synthesis – for introducing a 2-chlorobenzyl group via nucleophilic substitution.

Dyes and pigments – used in manufacturing colorants.

4-Chlorobenzyl Chloride Pharmaceuticals – key building block for antihistamines, antidepressants, etc.

Polymer chemistry – used to modify or crosslink polymers.

Agrochemical synthesis – like insecticides and fungicides.

Fine chemicals – intermediate for specialty chemical synthesis.

2-Chlorobenzyl chloride , 4-Chlorobenzyl chloride can be retained and analyzed using the Newcrom R1 column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and phosphoric acid. Detection is performed using UV 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.

AugustaChrom - Dr. Roland Kießwetter
Tel.: +49 821 599 783 70
Fax: +49 821 599 783 71
E-Mail: info@hplc-shop.de

Method Parameters

Column	Newcrom R1, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN -45%
Buffer	H3PO4 – 0.1%
Flow Rate	1.0 mL/min
Detection	UV 210 nm
Limit of Detection	6.8 ppb, 9.9 ppb

Quelle: https://sielc.com/hplc-ms-method-2-chlorobenzyl-chloride