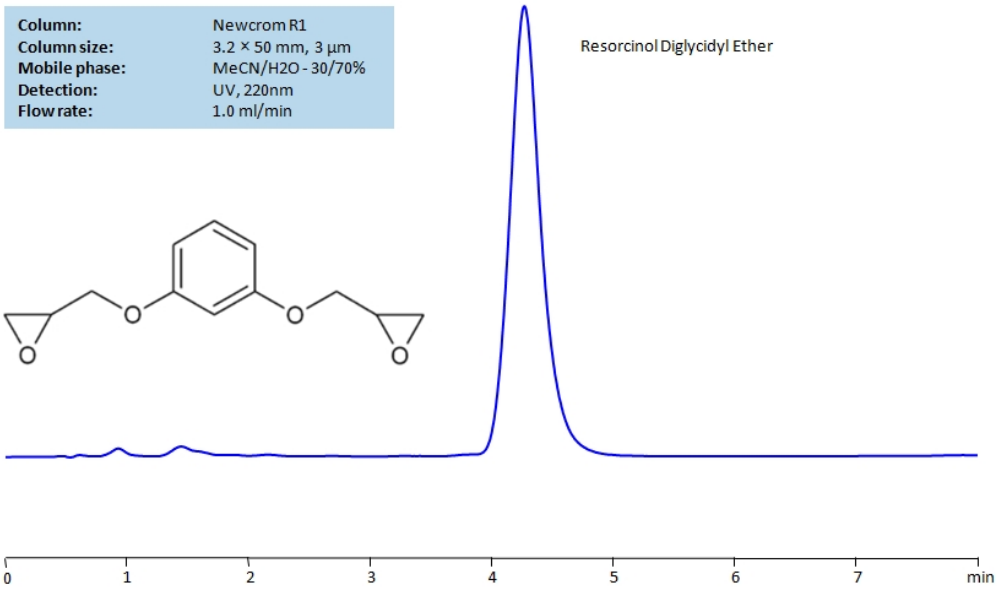
HPLC Determination of Resorcinol Diglycidyl Ether on Newcrom R1



High Performance Liquid Chromatography (HPLC) Method for Analysis of Diglycidyl resorcinol ether .

Diglycidyl Resorcinol Ether , also called Resorcinol diglycidyl ether (RDGE), is a glycidyl ether with the C12H14O4 . It is commercially available to reduce viscosity of epoxy resins. It is also highly toxic, potentially leading to irritation of skin, eyes, respiratory system, and skin. It is a known carcinogen with no safe levels of exposure.

Diglycidyl resorcinol ether can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) without a buffer. Detection is performed using UV.

Method Parameters

Column	Newcrom R1, 3.2 x 50 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 30/70%
Buffer	No
Flow Rate	1.0 mL/min
Detection	UV 220 nm, MS-compatible mobile phase

Quelle: https://sielc.com/hplc-determination-of-resorcinol-diglycidyl-ether-on-newcrom-r1