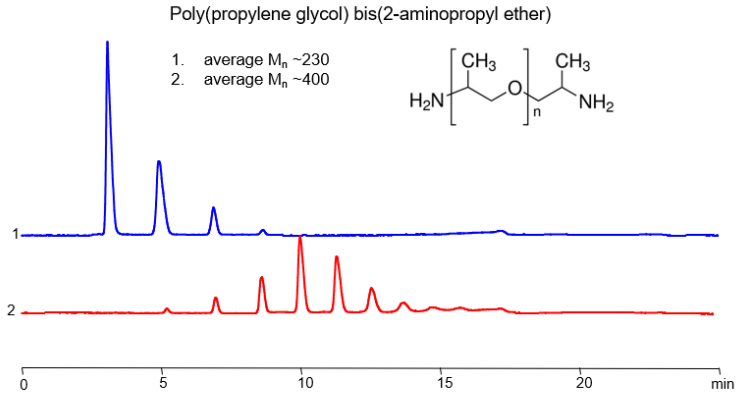
HPLC Method for Analysis of Poly(propylene glycol) bis(2-aminopropyl ether) on Primesep 200 Column by SIELC Technologies



Column:	Primesep 200
Column size:	3.2 × 100 mm, 5 µm
Column part number:	200-32.100.0510
Mobile phase:	Gradient MeCN -10-60 %, 20 min
Buffer:	TFA – 0.2%
Flow rate:	0.5 mL/min
Detection:	ELSD, 50C
Sample:	10 µl /ml
Injection volume:	2.0 µl

Poly(propylene glycol) bis(2-aminopropyl ether) is a hydrophobic polymer with the chemical formula CH3CH(NH 2)CH 2 [OCH2CH(CH 3)] n NH 2 . It is primarily used in preparation of epoxy resins or as a proton acceptor in nanocomposites for CO2 capture.

Poly(propylene glycol) bis(2-aminopropyl ether) can be retained and analyzed using the Primesep 200 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a [buffer] buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 200, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN10 – 60%, 20 min
Buffer	TFA – 0.2%
Flow Rate	0.5 mL/min
Detection	ELSDT50C

Quelle: https://sielc.com/hplc-method-polypropylene-glycolbis2-aminopropyl-ether