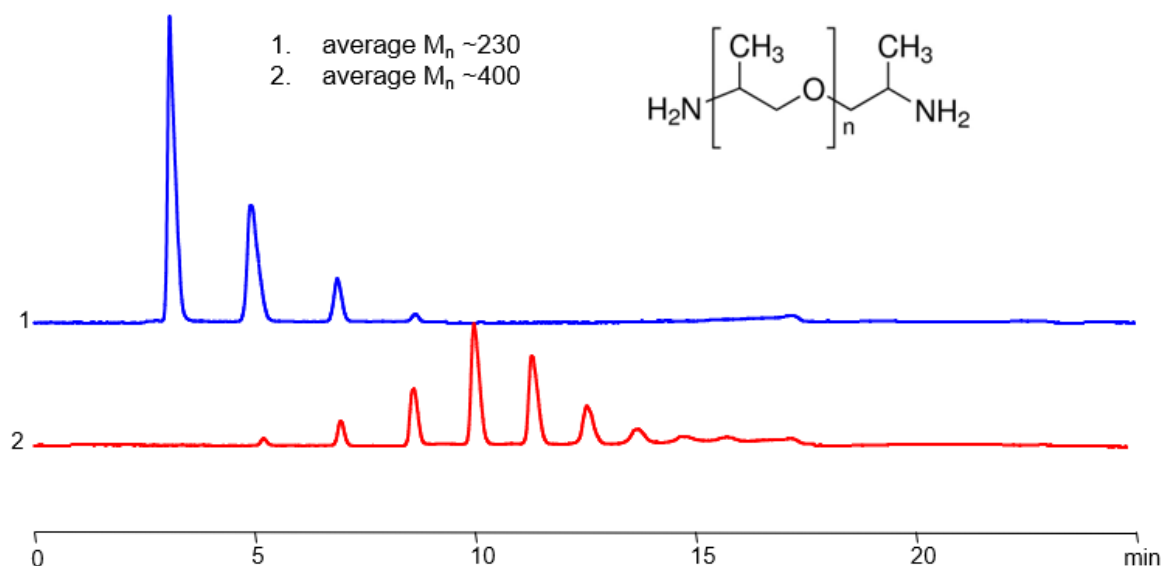
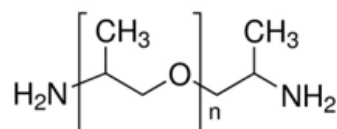


<https://sielc.com/hplc-method-polypropylene-glycolbis2-aminopropyl-ether>

Poly(propylene glycol) bis(2-aminopropyl ether)

1. average  $M_n \sim 230$
2. average  $M_n \sim 400$



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

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

Poly(propylene glycol) bis(2-aminopropyl ether) is a hydrophobic polymer with the chemical formula  $\text{CH}_3\text{CH}(\text{NH}_2)\text{CH}_2[\text{OCH}_2\text{CH}(\text{CH}_3)]_n\text{NH}_2$ . It is primarily used in preparation of epoxy resins or as a proton acceptor in nanocomposites for  $\text{CO}_2$  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.

## Mobile Phase

Gradient MeCN 10 – 60%, 20 min

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| <b>Buffer</b>              | TFA – 0.2%                                      |
| <b>Flow Rate</b>           | 0.5 ml/min                                      |
| <b>Detection</b>           | ELSD T 50C                                      |
| <b>Peak Retention Time</b> | 3.08, 4.93, 6.90, 8.56 min                      |
| <b>Class of Compounds</b>  | Poly(propylene glycol)                          |
| <b>Analyzing Compounds</b> | Poly(propylene glycol) bis(2-aminopropyl ether) |

#### HPLC Column Used

**Primesep 200, 3.2 x 100 mm, 5 µm, 100 Å, dual ended**

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