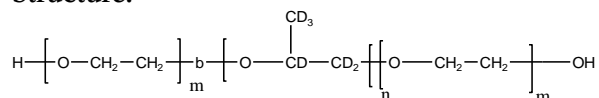


Sample Name:

**Poly(ethylene oxide-b-deuterated propylene oxide-b-ethylene oxide)**

Sample #: **P3749-PEOdPPOPEO**

Structure:



Composition:

Mn x 10 <sup>3</sup> PEO-b-dPPO-b-PEO	PDI
3.1-b-2.0-b-3.1	1.08

Synthesis Procedure:

By anionic process using protonated EO monomer and deuterated propylene oxide monomer.

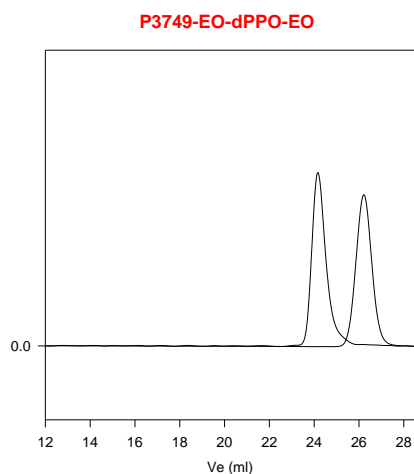
Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:

Polymer is soluble in THF, CHCl<sub>3</sub>, Toluene.

SEC:



Size exclusion chromatography of:  
(Protonated ethylene oxide-deuterated propylene oxide)<sub>6</sub>-Protonated ethylene oxide)

Triblock copolymer:

— dPPO center Block  $M_n=2000$ ,  $M_w=2200$ ,  $PI=1.10$

— Block Copolymer EO(3100)-b-dPPO(2000)-b-dEO(3100),  $PI=1.08$   
Dp: EO(70)-b-dPPO(31)-b-EO(70)