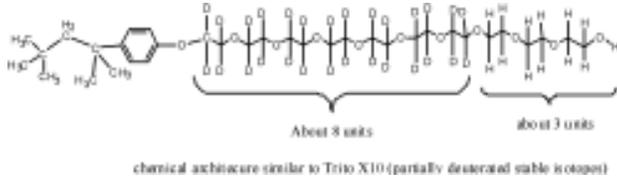


Sample Name: Partially Deuterated Polyethylene glycol tert-octylphenyl ether: similar to Triton X with stable isotopes deuterated polyethylene glycol

Sample #: P40492A-dPEOHEO-TOP

Structure:



Dp of deuterated ethylene glycol 7 units

Composition:

Mn x 10 ³	PDI
0.7	1.08
Physical Appearance at room temperature	Wax like and light ivory color

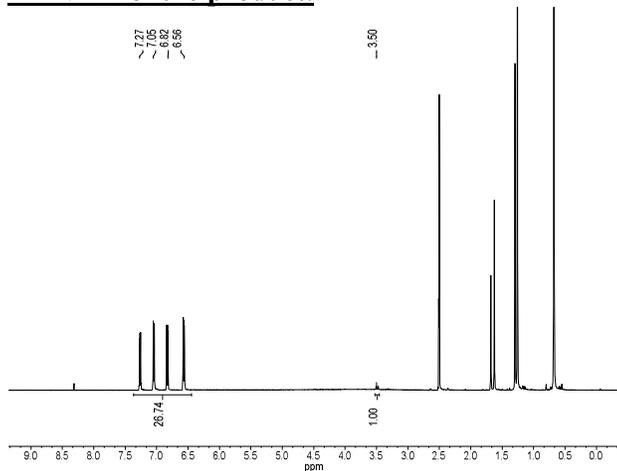
Synthesis Procedure:

The product is polymerized by anionic process under pressure using tert-Octyl phenol Cesium salt. Successive addition of deuterated EO at 130 oC . Purification of Product: Unreacted traces amount of tert-Octylphenol

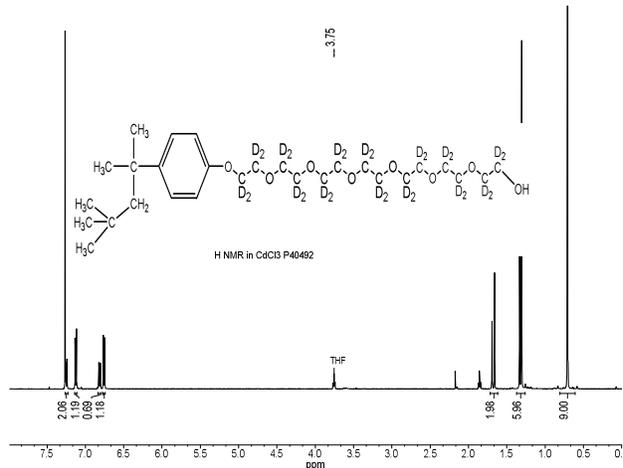
Characterization:

The product was characterized by size exclusion chromatography (SEC) and H²NMR.

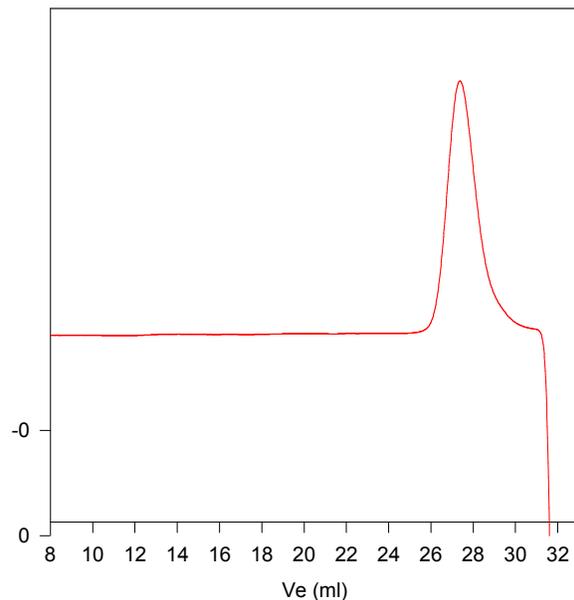
H² NMR of the product:



H NMR spectrum of the product run in DMSO:



SEC of the Product:



Size exclusion chromatograph of polymer
M_n = 700, PI = 1.08