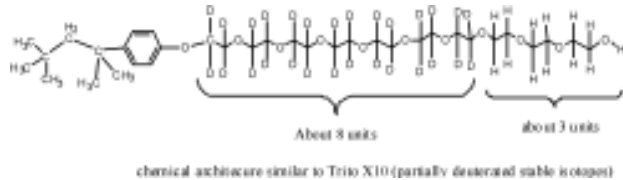


**Sample Name:** Partially Deuterated Polyethylene glycol tert-octylphenyl ether: similar to Triton X with stable isotopes deuterated polyethylene glycol

**Sample #:** P40492A-dPEOHEO-TOP

### Structure:



Dp of deuterated ethylene glycol 7 units

### Composition:

Mn x 10 <sup>3</sup>	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.

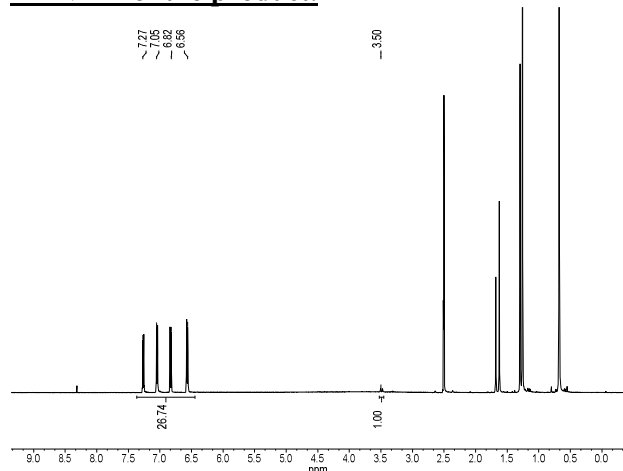
Successive addition of deuterated EO at 130 oC .

Purification of Product: Unreacted traces amount of tert-Octylphenol

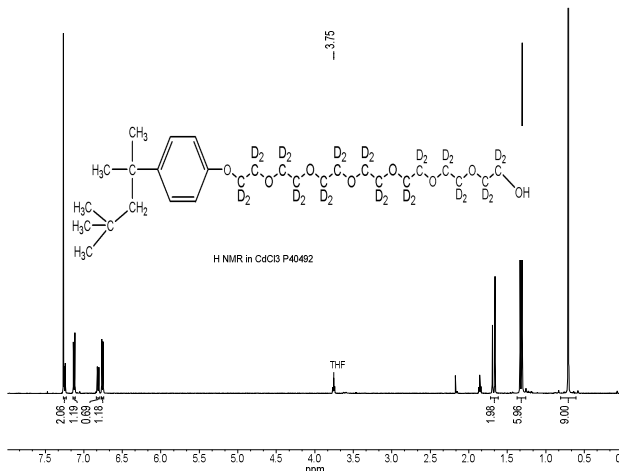
### Characterization:

The product was characterized by size exclusion chromatography (SEC) and H<sup>2</sup>NMR.

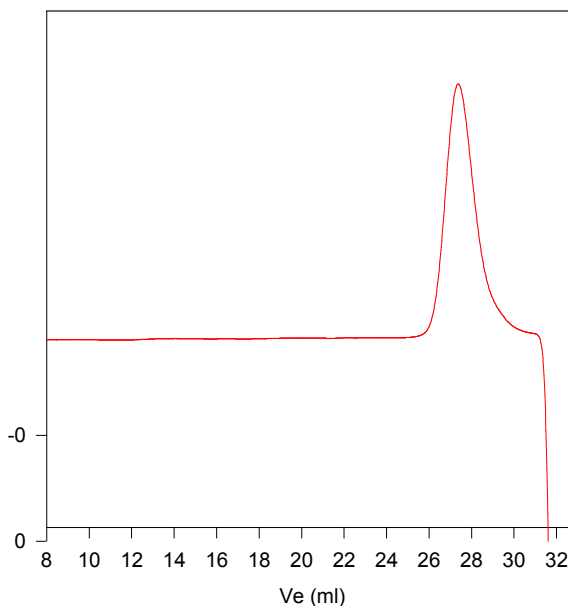
### H<sup>2</sup> NMR of the product:



### H NMR spectrum of the product run in DMSO:



### SEC of the Product:



Size exclusion chromatograph of polymer

M<sub>n</sub> = 700, PI = 1.08