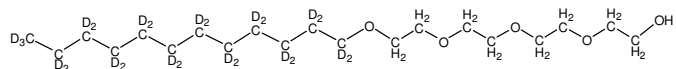


Sample ID: **P18555-EGd25**

Sample Name:

**Protonated tetraethylene glycol  
 $\alpha$ -deuterated (d24) monododecyl ether**

Structure:



Composition:

$M_n$ (g/mol)	$M_w/M_n$
388	1.09

Synthesis:

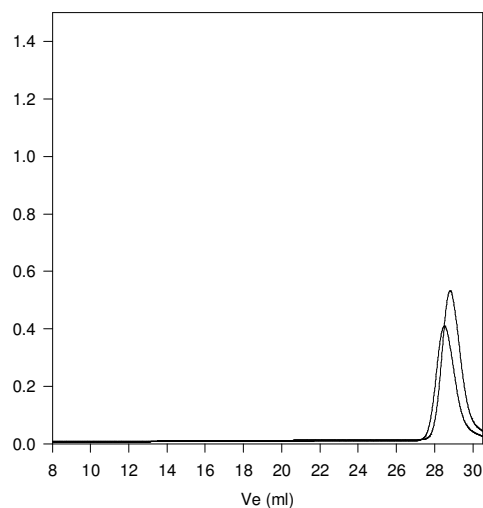
Tetraethylene glycol terminated with deuterated dodecane was synthesized by anionic living polymerization.

Characterization:

The product was characterized by  $^2\text{H}$  NMR and SEC.

SEC:

**P18555- Protonated Tetra-ethylene glycol  
deuterated mono dodecyl ether**

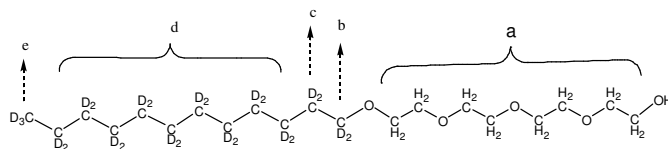


Size exclusion chromatography:

— Deuterated 1-dodecanol d24

— Protonated tetraethylene glycol deuterated mono dodecyl ether  
 $M_n=388$   $PI=1.09$

Deuterium NMR spectra:



$^2\text{H}$  NMR (500 MHz;  $\text{CHCl}_3$ )

**P18555-EGd25dodecyl**

