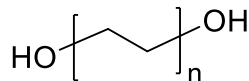


Product Name:
 α,ω -Bis(hydroxy)-terminated Polyethylene

Product # P42667-E2OH

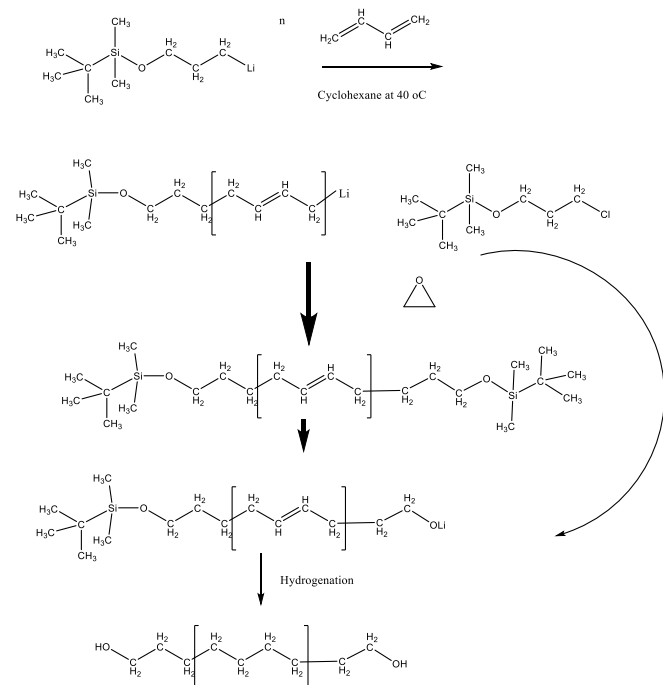
Structure:



Composition:

$\text{Mn} \times 10^3$	PDI
5.5	1.01
Appearance:	solid / powder

Synthesis route:



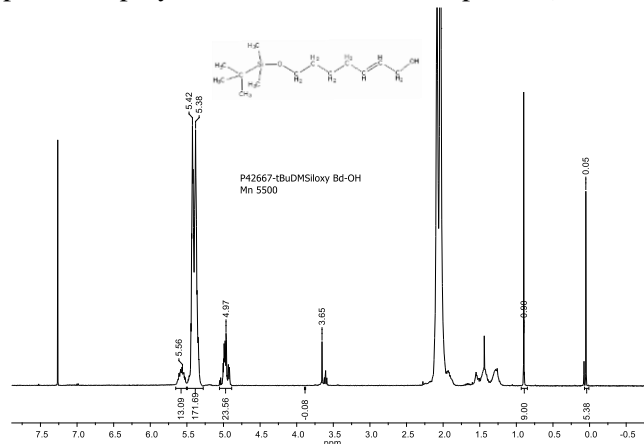
Characterization:

The product was validated by size exclusion chromatography (SEC) using triple detection method and proton NMR spectroscopy done at room temperature and at 80 °C in toluene- d_8 .

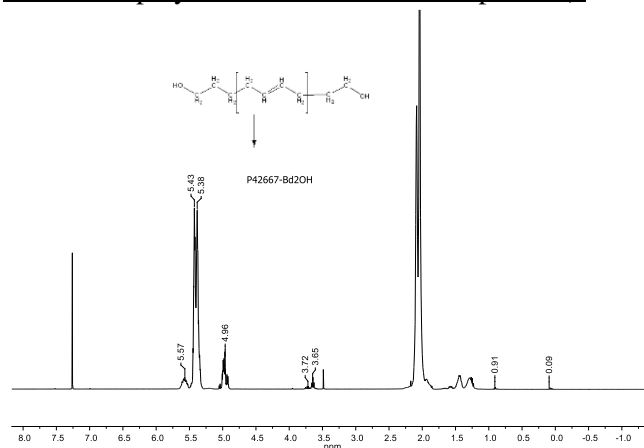
Solubility:

Polyethylene is soluble in toluene and hot xylene. Low molecular weight polymer is also soluble in tetrahydrofuran (THF).

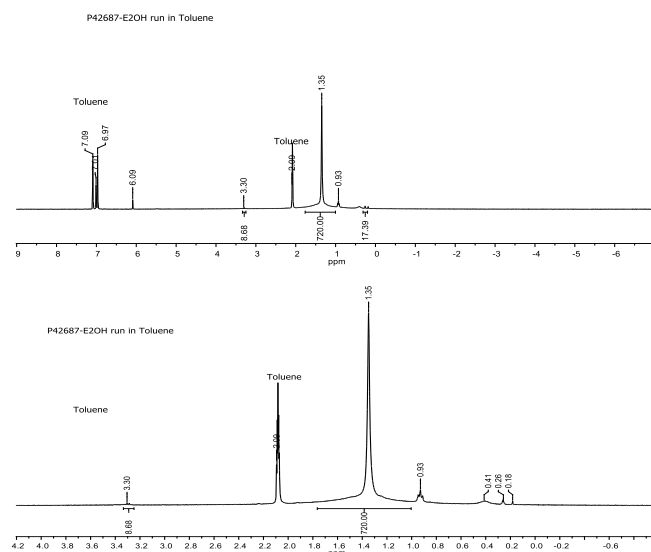
^1H -NMR of tBuDimethylSiloxy-PBd-OH (end-group protected polybutadiene, intermediate product):



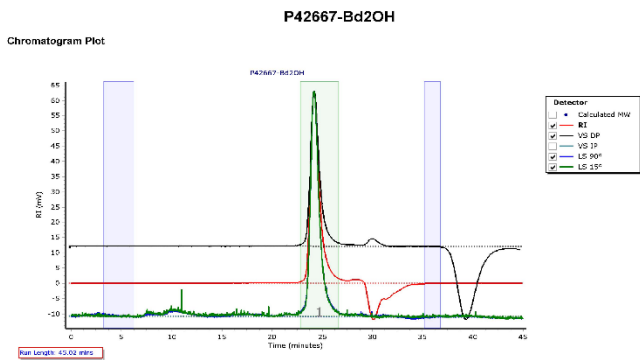
^1H -NMR spectrum of OH-PBd-OH (bis-hydroxy-terminated polybutadiene, intermediate product):



^1H -NMR of OH-PE-OH (bis-hydroxy-terminated polyethylene, final product) in toluene- d_8 at r.t.:



SEC chromatogram of bis-hydroxy-terminated polybutadiene:



Molecular Weight Averages						
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)
Peak 1	5653	5502	5528	5549	5570	5543

PD 1.004