

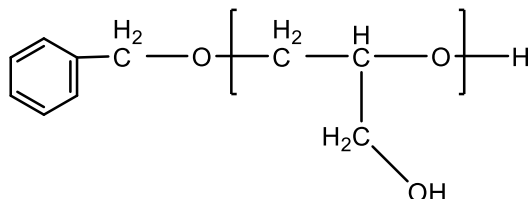
Product Profile

Identification

Product Name: Poly(glycidol)

Sample #: P45376A-GIOH

Structure:

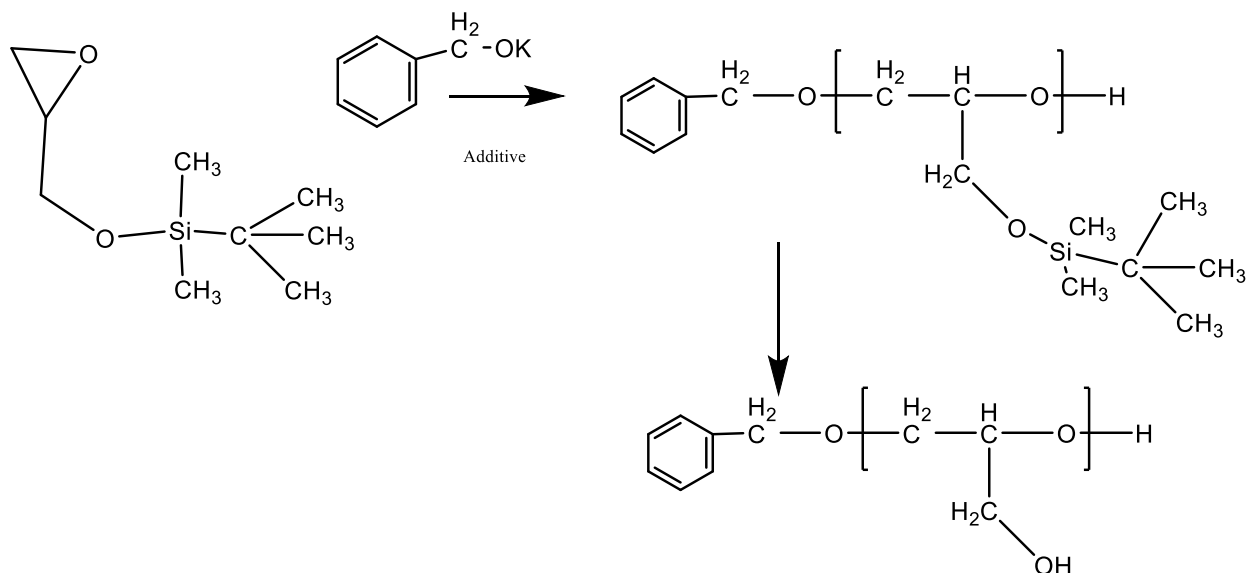


Composition:

Mn x 10 ³	Mw/Mn (PDI)
3.3	1.13
Dp ₄₃ from ¹ H NMR	

Method of Synthesis:

Anionic polymerization of protected Glycidol monomer: tert.butyl glycidyl ether or (tert-Butoxymethyl)oxirane) to Poly glycidol.



Solubility in different solvents

THF	√	DMF	√
CHCl ₃	√	Acetone	√
Toluene-Hot	√	water	√

Purification of Polymer By solvent-non solvent mixture

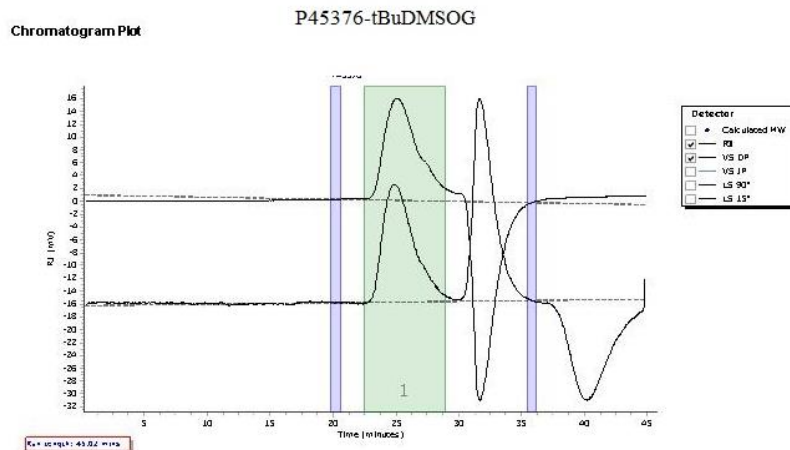
Validation of Architecture:

A. Gel Permeation Chromatography (GPC), SEC- Profile

Agilent GPC/SEC Software



Agilent Technology



Mw/Mn by GPC and Dp by HNMR
After hydrolysis Mn 3,300

B. NMR (HNMR) of polymer:

