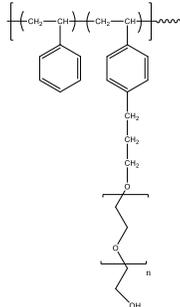


Sample Name: Poly(styrene)-graft-poly(ethylene oxide), PEO is hydroxy-terminated

Sample #: P41758-SEOcomb

Structure:

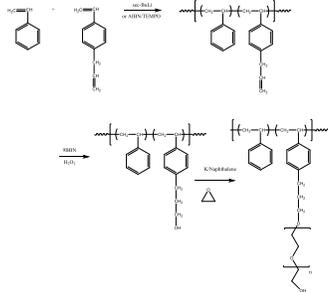


Composition:

Mn x 10 ³ (Main Chain)	Mn x 10 ³ (Graft Chain)	Mn x 10 ³ (Total Chain)	Mw/Mn (Total)
6.0	4.5	34.0	1.02
PEO = 6 branches			

Synthesis Procedure:

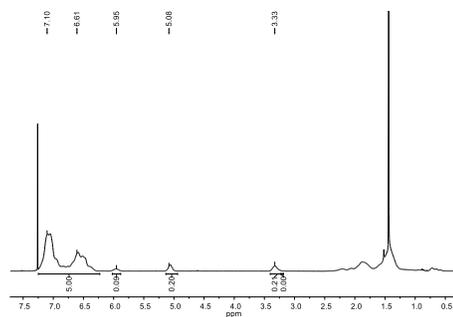
Polystyrene-g-poly(ethylene oxide) is synthesized by polymerization of ethylene oxide on the polystyrene bearing hydroxyl functions. The brief synthetic route is illustrated as following scheme.



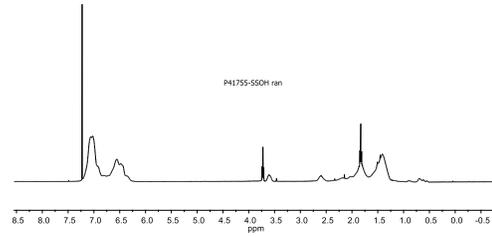
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR data analysis.

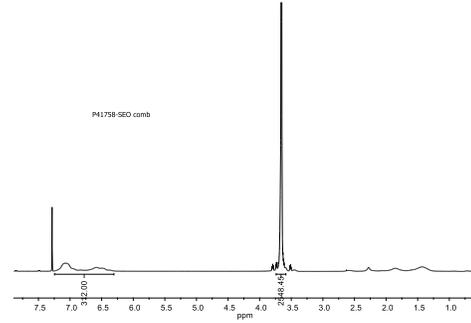
H NMR spectrum of SSallyl random:



H NMR spectrum of SSpropanol random:

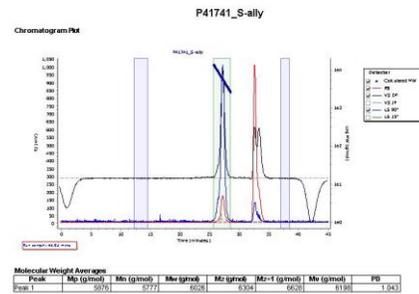


H NMR spectrum of the Sample:



SEC of Polymer SSallyl ran Lot P41741:

Agilent GPC/SEC Software



SEC elugram of the Sample:

Agilent GPC/SEC Software

