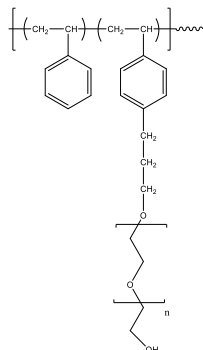


Sample Name: Poly(styrene)-graft-poly (ethylene oxide), PEO is hydroxy-terminated

Sample #: P41757-SEOcomb

Structure:

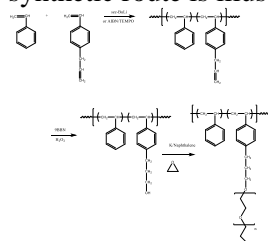


Composition:

Mn x 10 ³ (Main Chain)	Mn x 10 ³ (Graft Chain)	Mn x 10 ³ (Total Chain)	Mw/Mn (Total)
6.0	2.5	20.0	1.06
PEO = 6 branches			

Synthesis Procedure:

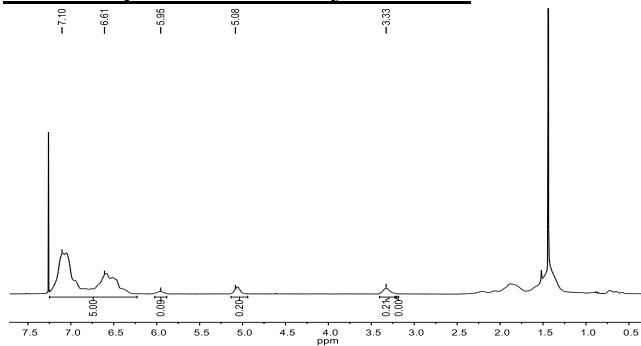
Polystyrene-g-poly (ethylene oxide) is synthesized by polymerization of ethylene oxide on the polystyrene bearing hydroxyl functions. The brief synthetic route is illustrated as following scheme.



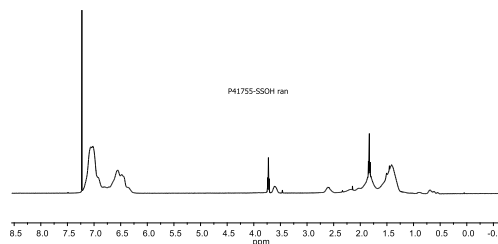
Characterization:

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

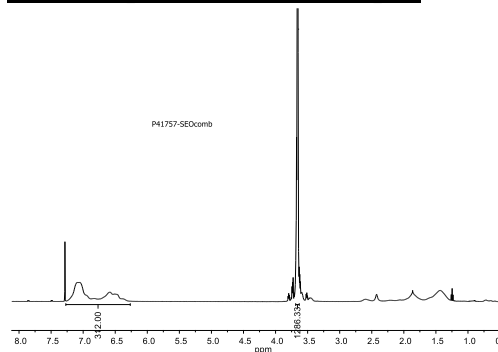
¹H NMR spectrum of SSallyl random:



¹H NMR spectrum of SSpropanol:

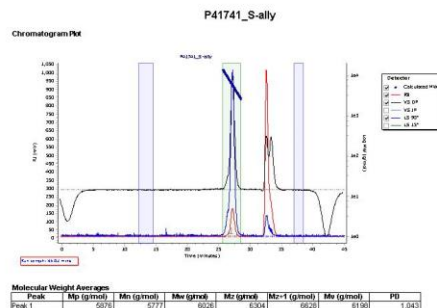


¹H NMR spectrum of the Sample:



SEC of Polymer SSallyl ran Lot P41741:

Agilent GPC/SEC Software



SEC elugram of the Sample:

Agilent GPC/SEC Software

