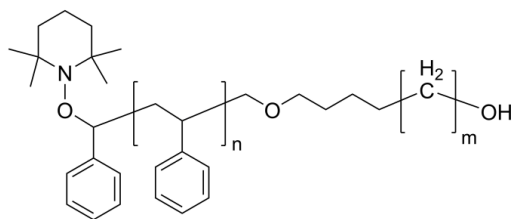


Sample Name: Poly(styrene)-b-poly(methylene)

Sample #: P42194A-SM

Structure:

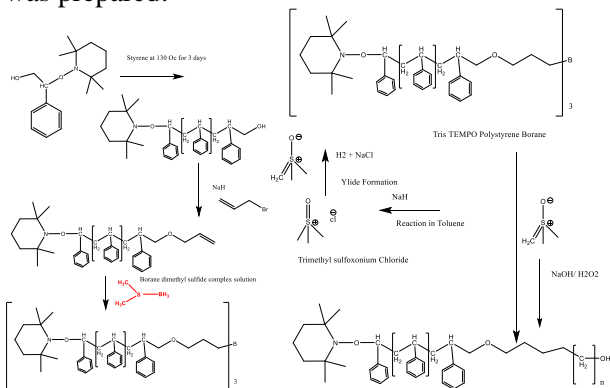


Composition:

Mn x 10 ³ S-b-M	PDI
2.5-b-1.5	1.08

Synthesis Procedure:

The following reaction scheme shows how the product was prepared:



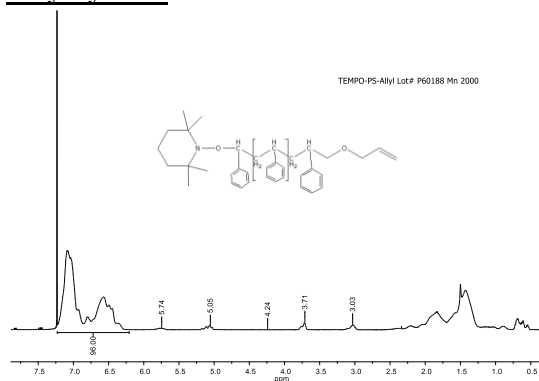
Characterization:

The product was characterized by size exclusion Chromatography (SEC) and ¹H NMR in CdCl₃ and in chlorobenzene.

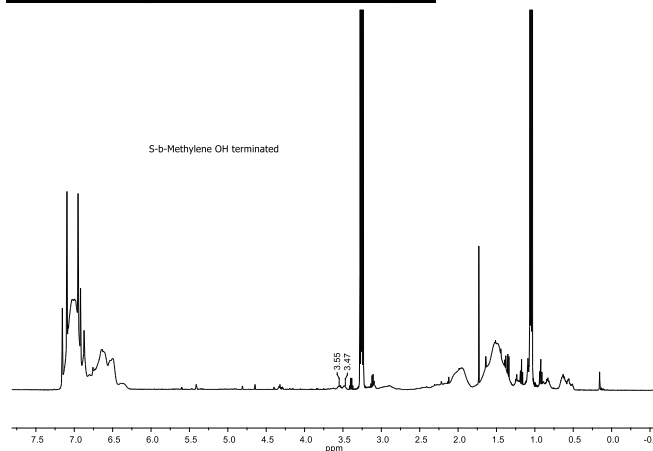
Solubility:

Polymer is soluble in warm toluene and in dichlorobenzene.

¹H-NMR Spectrum of the Allyl terminated PolyStyrene:



¹H-NMR Spectrum of the Sample:

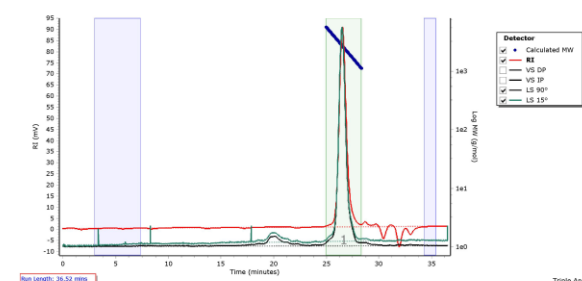


SEC of the block copolymer:

Agilent GPC/SEC Software

P42194-S-Allyl

Chromatogram Plot



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	2673	2537	2635	2731	2828	2709	1.039

GPC of the diblock copolymer carried out in Toluene the elution volume was higher than its polystyrene allyl precursor. The Mw/MN is increased from 1.03 to 1.08 HNMR calculate the composition which is comparable to its yield of the polymer.