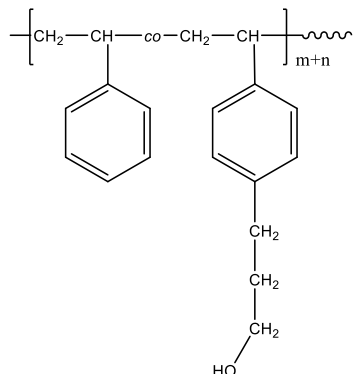


Sample Name:

**Poly(styrene-co-4-[3-hydroxypropyl]styrene),
random**

Sample #: **P18359-SSpropanol**

Structure:



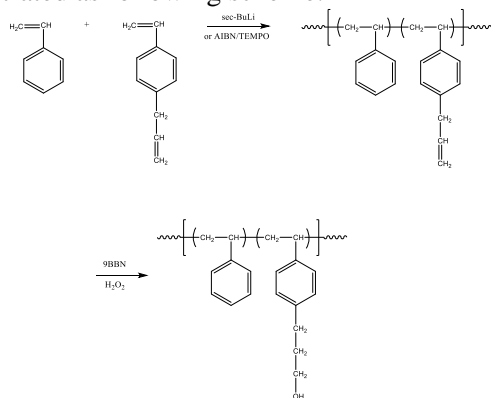
Composition:

Mn x 10 ³	Mw/Mn (Total)
6.5	1.25

Of Branches: 4

Synthesis Procedure:

Polymer is synthesized by oxidation of double bond with 9-BBN. The brief synthetic route is illustrated as following scheme.



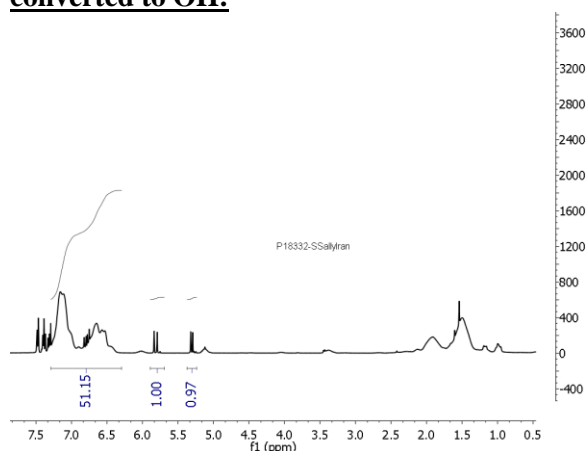
Characterization:

The molecular weight and polydispersity index (PDI) of polymers are obtained by size exclusion chromatography. The composition of grafting polymer is determined by NMR.

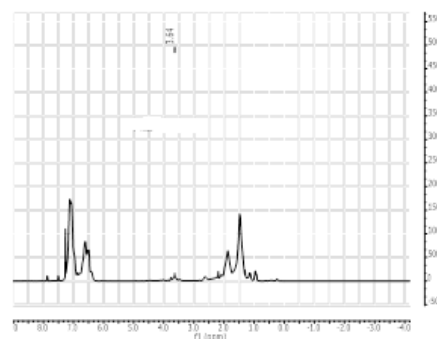
Solubility:

The polymer is soluble in THF, DMF, chloroform, and Toluene. It precipitates from hexanes.

¹H-NMR spectrum of Lot # P18332-SSallylran converted to OH:

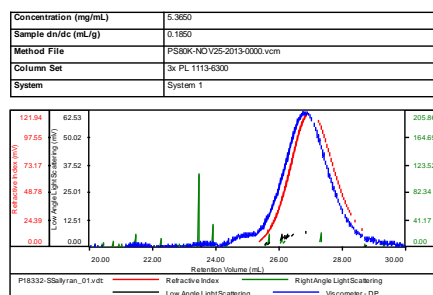


¹H-NMR spectrum of the product:



SEC elugram of Polymer:

Sample ID: P18332-SSallyl ran



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18332-SSallylran_01.vdt	4,036	5,394	5,405	1.336	0.0786

