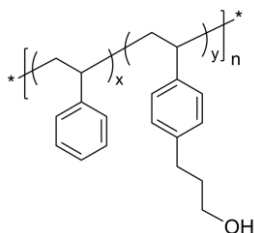


**Sample Name:** POLY(STYRENE-CO-4-[3-HYDROXYPROPYL]STYRENE), RANDOM

**Sample #:** P42929-SSpropanol

**Structure:**

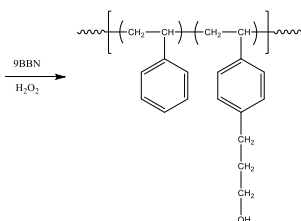
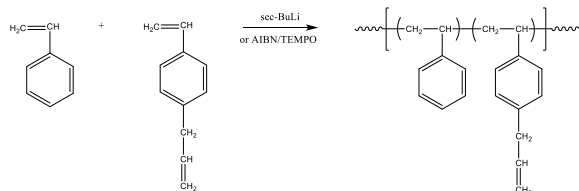


**Composition:**

Mn x 10 <sup>3</sup>	OH mol%	Mw/Mn (Total)
6.0	2.0	1.02

**Synthesis Procedure:**

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



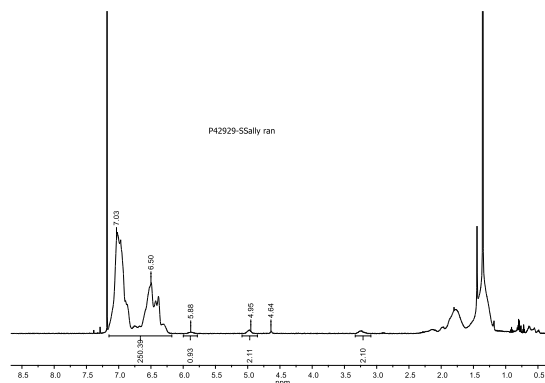
**Characterization:**

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

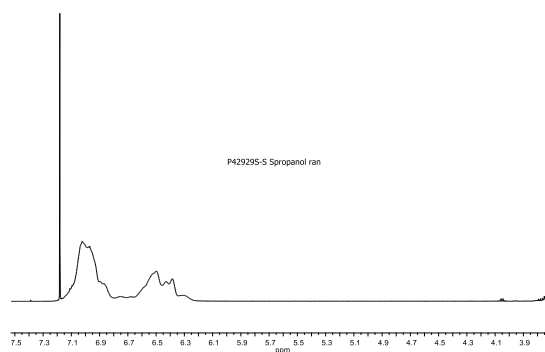
**Solubility:**

Polystyrene-b-butyl alcohol is soluble in THF, DMF, chloroform, and Toluene. It precipitates from hexanes.

**<sup>1</sup>H-NMR spectrum of SSallylran:**



**<sup>1</sup>H-NMR spectrum of the sample:**



**SEC elugram of the Polymer:**

