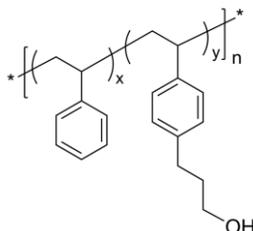


**Sample Name:** Poly(styrene-co-4-[3-hydroxypropyl]styrene), random

**Synonym:** Poly(styrene-co-3-[4-vinylphenyl]-1-propanol)

**Sample #:** P2641-SSPropanol

**Structure:**

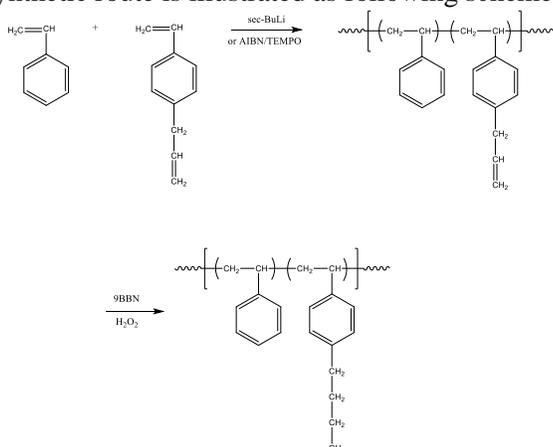


**Composition:**

Mn x 10 <sup>3</sup>	Mw/Mn (Total)
6.5	1.06
# Of Branches: 2	

**Synthesis Procedure:**

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



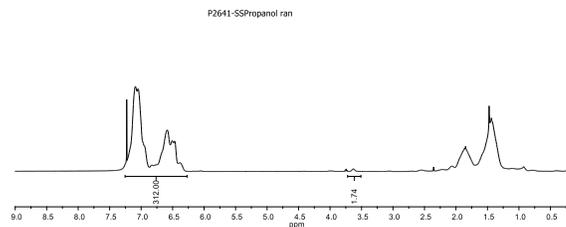
**Characterization:**

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-g-Propyl alcohol is soluble in THF, DMF, chloroform, and Toluene. It precipitates from hexanes.

**H NMR spectrum of Polymer:**



**SEC elugram of Polymer:**

