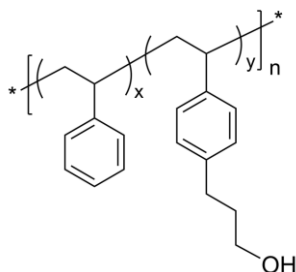


Sample Name: Poly(styrene-co-4-[3-hydroxypropyl]styrene), random

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

Sample #: P2640-SSPropanol

Structure:



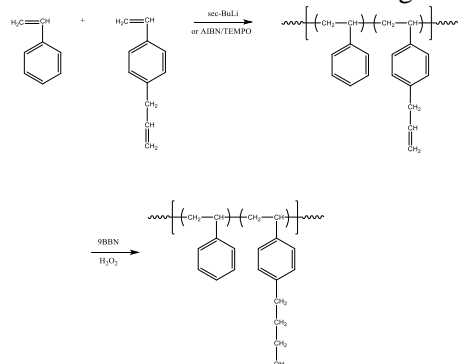
Composition:

Mn x 10 ³	Mw/Mn (Total)
13.5	1.19

Of Branches: 7

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.



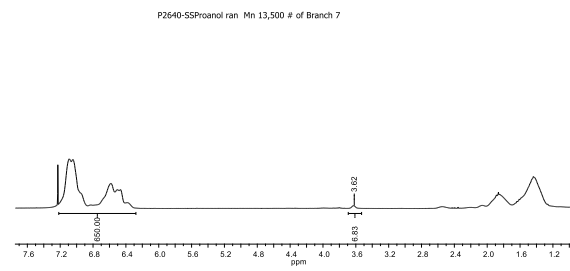
Characterization:

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 the Polymer:



SEC elugram of the Polymer:

