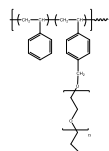


**Sample Name:** Poly(styrene)-graft-poly (ethylene oxide), PEO is hydroxy-terminated  
*Linker Between EO branch and styrene unit benzyl ether*

**Sample #:** P43361-SEOcomb

**Structure:**



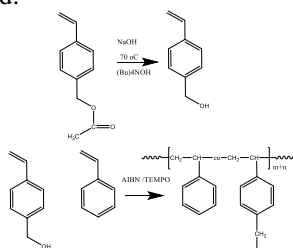
**Composition:**

Mn x 103 (Main Chain)	Mn x 103 (Graft Chain)	Mn x 103 (Total PEO Chain)	Mw/Mn (Total)
6.0	5.5	38.0	1.8

# Of Branches of benzyl alcohol: 7

**Synthesis Procedure:**

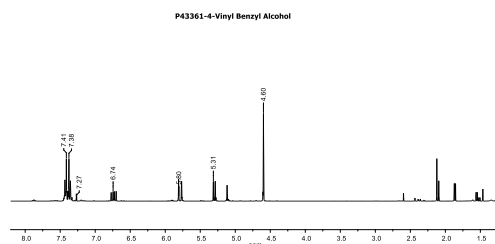
The following reaction scheme shows how the 4 Vinyl Phenyl methanol Monomer was synthesized:



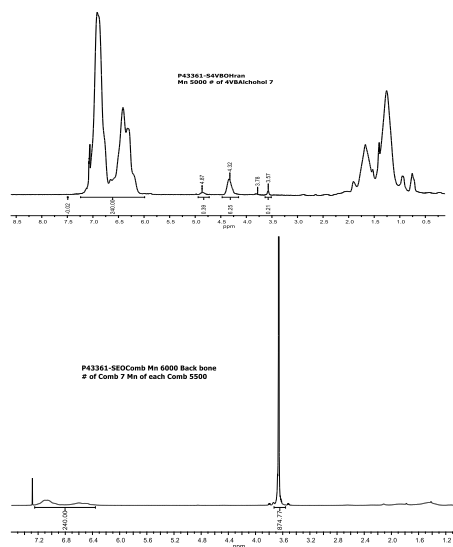
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR data analysis.

**<sup>1</sup>H-NMR spectrum of 4-Vinyl Phenyl methanol**



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



**SEC elugram of Polymer:**

