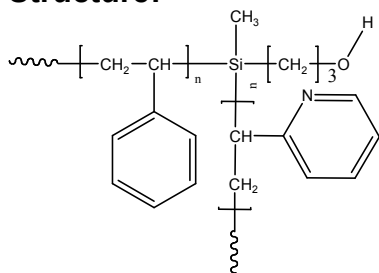


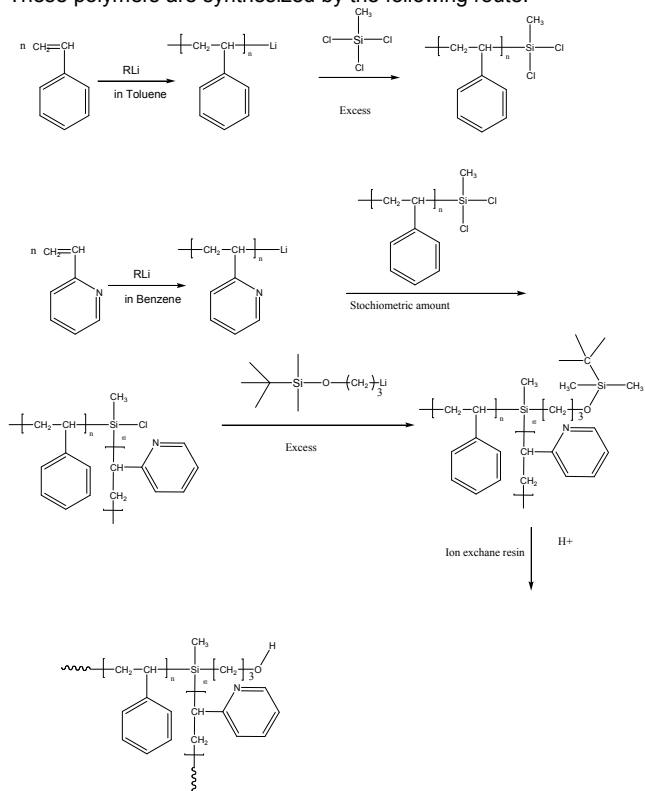
Poly(styrene)-b-Poly 2VP bears OH functional group at the junction

Structure:

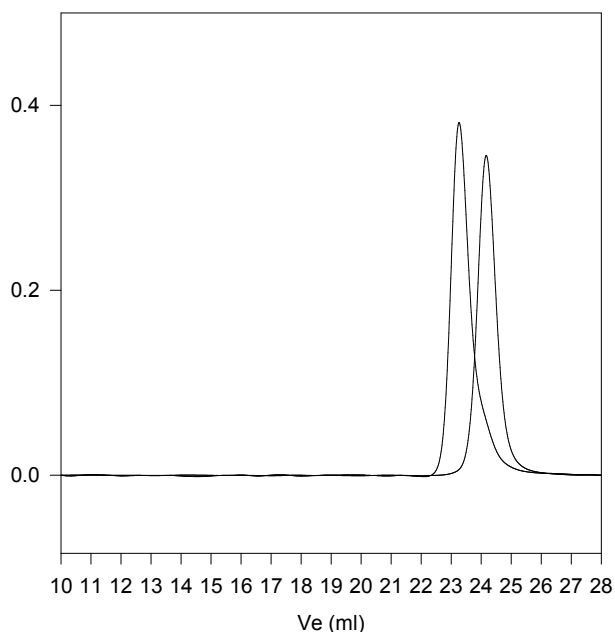


Mn x 10 ³	PDI
25.0-b-26.0	1.07

These polymers are synthesized by the following route:



The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Polymer functionality was verified by FTIR/H NMR depending on the molecular weights. Furthermore the quantitative yield of the end functionalization was also proven in the extinction of the polymer in the ATRP process to synthesize different diblock copolymers.



—— Polystyrene, $M_n=25000$, $M_w=26,500$, $PI=1.06$

—— Block Copolymer PS(25,000)-b-P2VP(26,000), PI=1.07