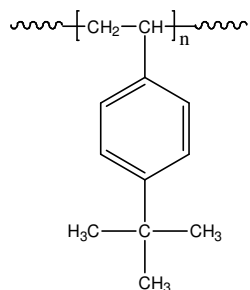


**Sample Name:** Poly(t-butyl styrene)

**Sample #:** P1579-4tBuS

**Structure:**

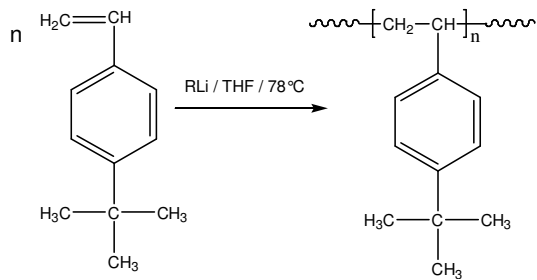


**Composition:**

Mn x 10 <sup>3</sup>	PDI
40.6	1.03

**Synthesis Procedure:**

Poly(t-butyl styrene) is synthesized by living anionic polymerization of t-butyl styrene and the reaction scheme is shown below.



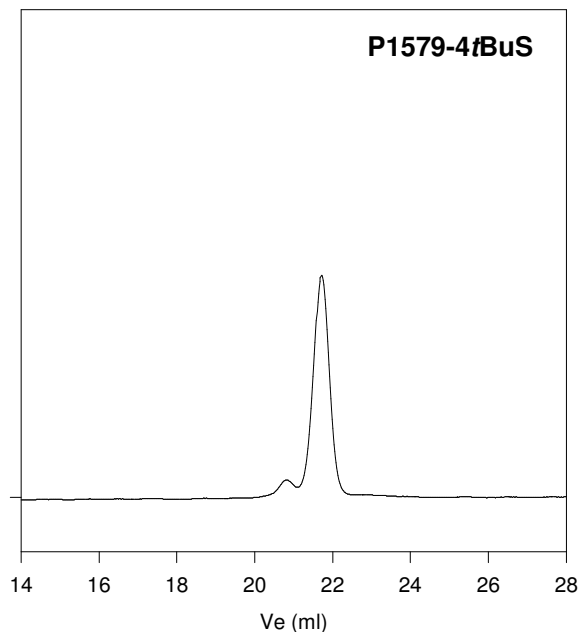
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

**Solubility:**

Poly(4-t-butyl styrene) is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**SEC of Homopolymer:**



Size exclusion chromatograph of poly4-tert.butylstyrene:

M<sub>n</sub>=40600, M<sub>w</sub>=41800, PI=1.03