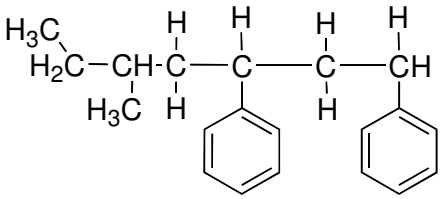
Sample Name: **Styrene -266**

Sample #: **P40042AF1-S266**

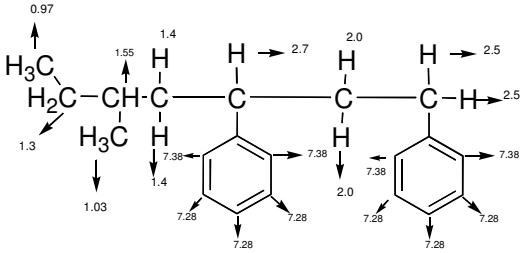
Structure:



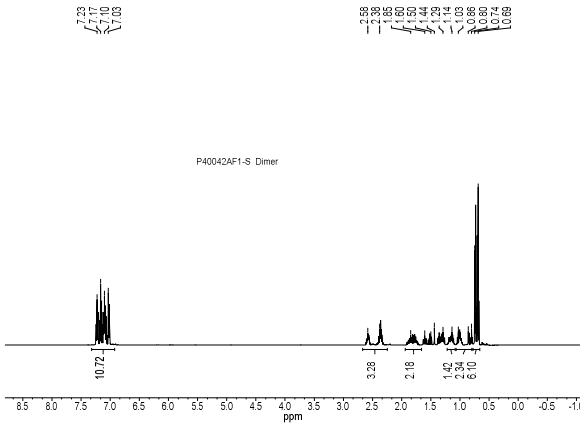
Exact Mass: 266.2
Mol. Wt.: 266.4
C, 90.16; H, 9.84

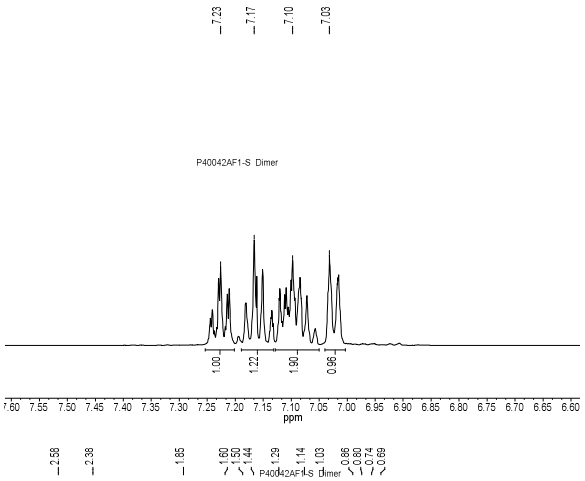
Synthesis Procedure:
Oligomers of styrene are obtained by living anionic polymerization of styrene followed by separation by column chromatatography.

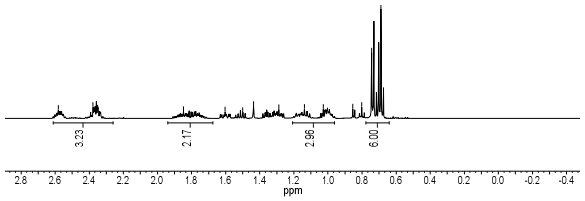
Characterization:
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co. ^{1}H-NMR spectroscopy by comparing the peak area of the aromatic and terminal methyl groups coming from cumyl methyl ether potassium salt use as initiator.



^{1}H NMR spectrum of the polymer:

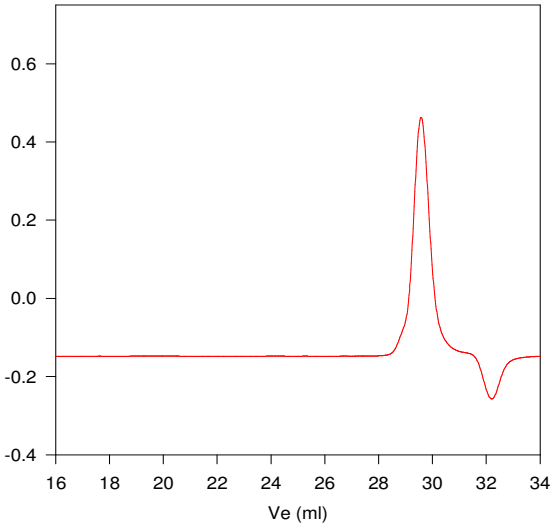






SEC elugram of Homopolymer:

P40042AF!-S266



Size Exclusion Chromatography of styrene oligomers

Dp of S monomer is : 2 + Initiator : S-266 Mw/Mn 1.03