

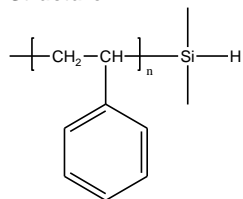
Sample Name:
Dimethyl Silane Terminated Polystyrene

SEC of Sample:

Sample #: P1486-SSiH

P1486-SiH

Structure:

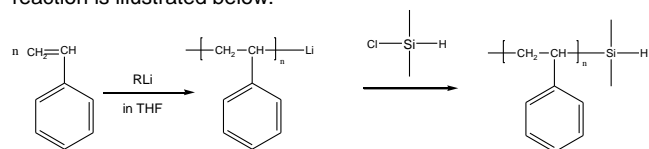


Composition:

Mn x 10 ³	PDI
12.0	1.02

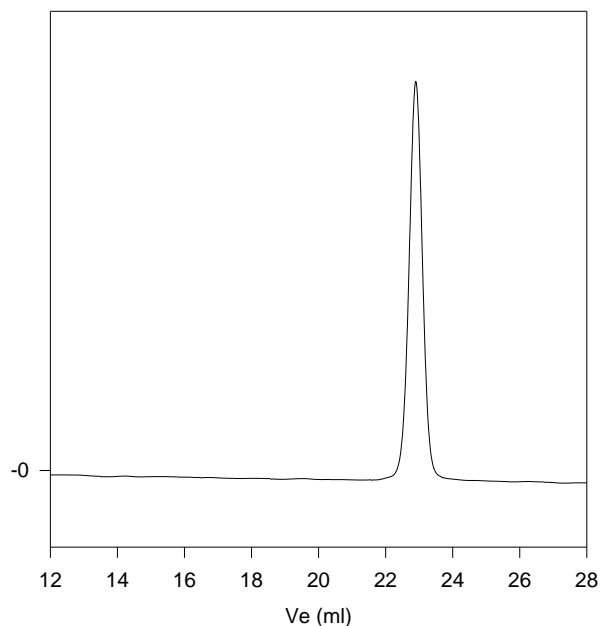
Synthesis Procedure:

Dimethyl Chlorosilane Terminated Polystyrene was prepared by anionic living polymerization of styrene in THF and termination with a large excess of dimethyl dichlorosilane. The scheme of the reaction is illustrated below:



Characterization:

The molecular weight and polydispersity index of this polymer were determined before functionalization with silane by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.



Size exclusion chromatography of silane Terminated polystyrene:

$M_n=17,300$, $M_w=17,800$, $PI=1.03$, functionality>0.95

