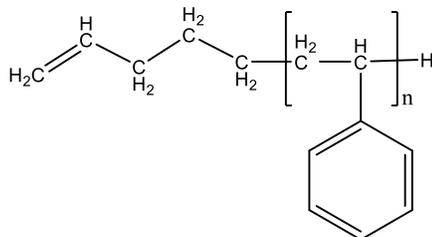


**Sample Name:** Poly(styrene),  $\alpha$ -allyl-terminated

**Sample #:** P42271B-S-allyl

**Structure:**

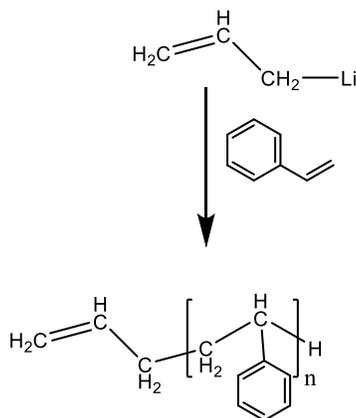


**Composition:**

| Mn x 10 <sup>3</sup> | PDI  |
|----------------------|------|
| 4,077.0              | 1.16 |
| Functionality        | >99% |

**Synthesis Procedure:**

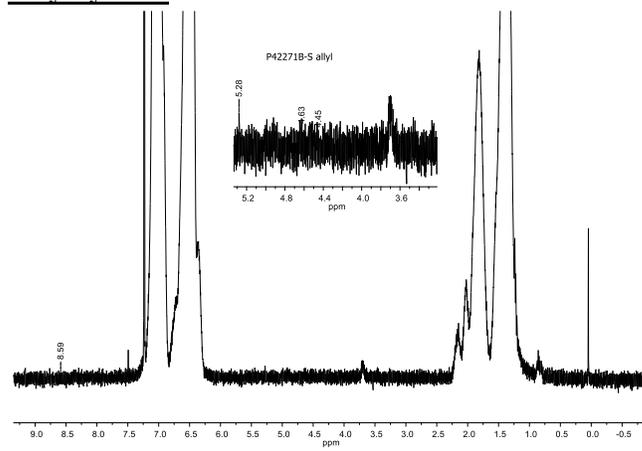
The following reaction scheme shows how the product was prepared:



**Characterization:**

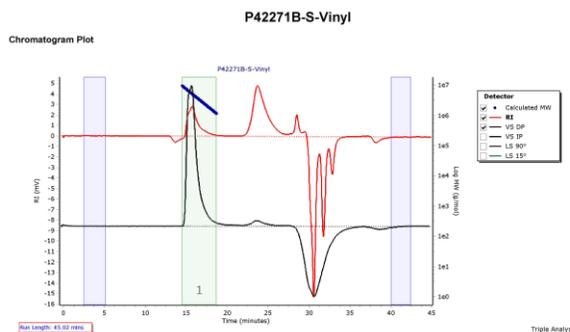
The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR in CdCl<sub>3</sub>.

**<sup>1</sup>H-NMR Spectrum of the Allyl terminated PolyStyrene:**



**SEC elugram of the polymer:**

Agilent GPC/SEC Software



| Molecular Weight Averages |            |            |            |            |              |            |       |
|---------------------------|------------|------------|------------|------------|--------------|------------|-------|
| Peak                      | Mp (g/mol) | Mn (g/mol) | Mw (g/mol) | Mz (g/mol) | Mz+1 (g/mol) | Mv (g/mol) | PD    |
| Peak 1                    | 5203988    | 4077923    | 4748268    | 5251170    | 5623226      | 5151476    | 1.164 |