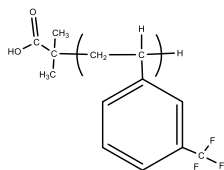


**Sample Name:**  
**Poly(3-Trifluoromethyl styrene)**

**Sample #:** P44291-3FMeS

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
10.0	1.27
$T_g (^{\circ}\text{C})$	64 $^{\circ}$

**Synthesis Procedure:**

The polymer was synthesized by RAFT polymerization process. the RAFT moiety removed by Free radical process.

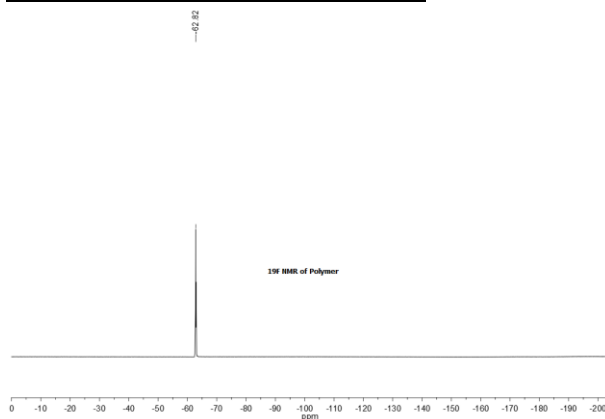
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and  $^1\text{H}$  NMR, F-NMR and DSC data analysis.

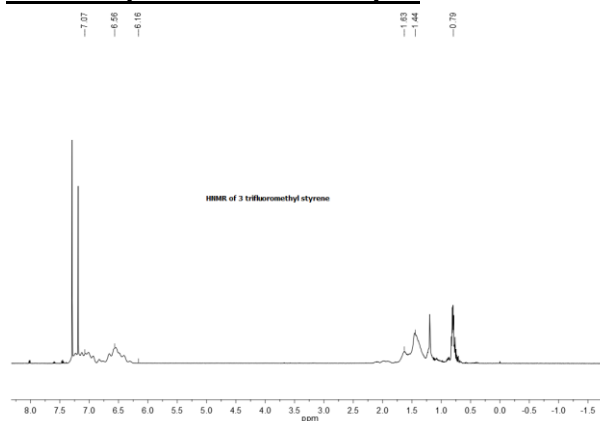
**Solubility:**

Polymer is soluble in THF, toluene and  $\text{CHCl}_3$ . It precipitates from methanol/ $\text{H}_2\text{O}$ , water.

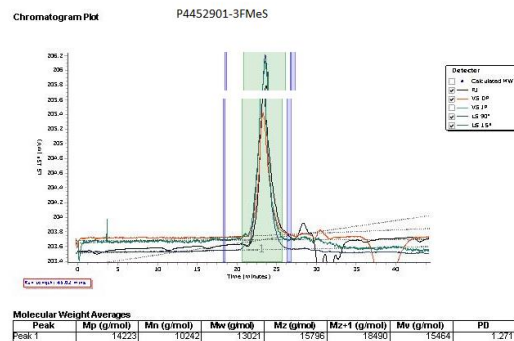
**F NMR spectrum of the polymer:**



**$^1\text{H}$  NMR spectrum of the Sample:**



**SEC elugram of Homopolymer:**



**DSC thermogram (2<sup>nd</sup> heating scan, 10 $^{\circ}\text{C}/\text{min}$ ):**

