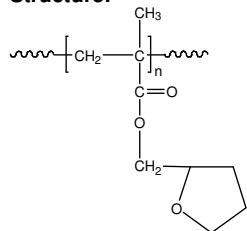


Sample Name:

**Poly(tetrahydrofurfuryl methacrylate)**

Sample #: **P3743-THFMMA**

Structure:

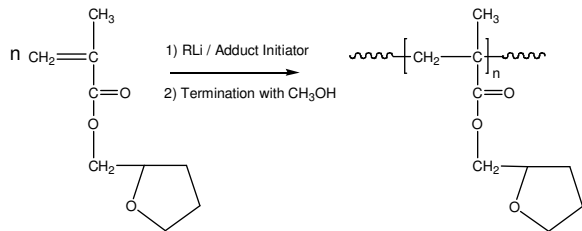


Composition:

| $M_n \times 10^3$ | PDI  |
|-------------------|------|
| 133.0             | 1.40 |

Synthesis Procedure:

Poly(tetrahydrofurfuryl methacrylate) is obtained by living anionic polymerization of tetrahydrofurfuryl methacrylate. The reaction scheme used for the polymer synthesis is shown below:



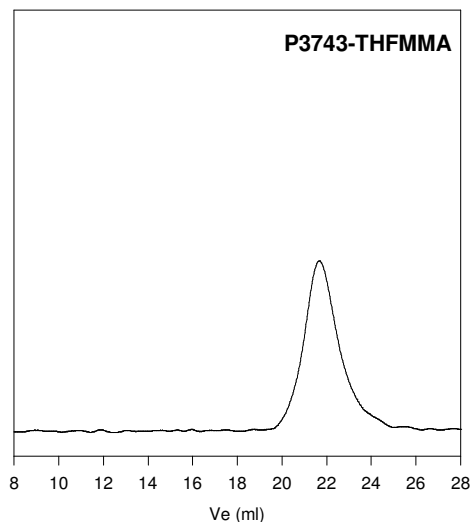
Characterization:

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

Solubility:

Poly(tetrahydrofurfuryl methacrylate) is soluble in THF,  $\text{CHCl}_3$ , toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

SEC of Homopolymer:



Size exclusion chromatograph of Poly(tetrahydrofurfuryl methyl methacrylate):

$M_n=133000$ ,  $M_w=185000$ ,  $PI=1.4$

$dn/dc$  in THF at 30 °C : 0.078 Radius of Gyration: 12.40 nm

Solution Viscosity in THF at 30 °C: 0.277 dl/g