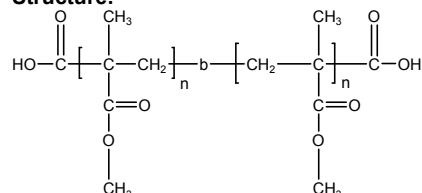


Sample Name:

α,ω - dicarboxy Terminated Poly(methyl methacrylate)

Sample #: P2552-MMA2COOH

Structure:

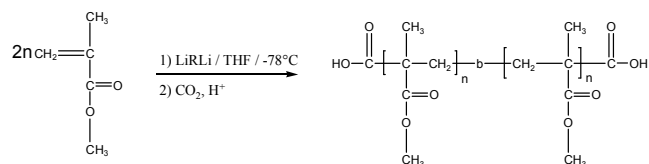


Composition:

Mn x 10 ³	PDI
5.0	1.13

Synthesis Procedure:

α,ω - Dicarboxy terminated poly(methyl methacrylate) was synthesized by living anionic polymerization of methyl methacrylate using a bifunctional initiator (oligomer α -methylstyrene lithium) in THF and termination with dried CO₂. The scheme of the reaction is illustrated below:



Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector before the addition of the CO₂H function.

Solubility:

SEC of Sample:

P2552-MMA2COOH

