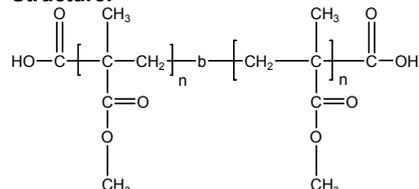


Sample Name:

α,ω - dicarboxy Terminated Poly(methyl methacrylate)

Sample #: P2552-MMA2COOH

Structure:

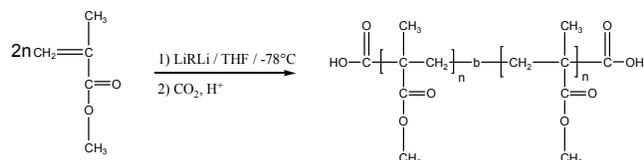


Composition:

$M_n \times 10^3$	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 CO_2 . The scheme of the reaction is illustrated below:



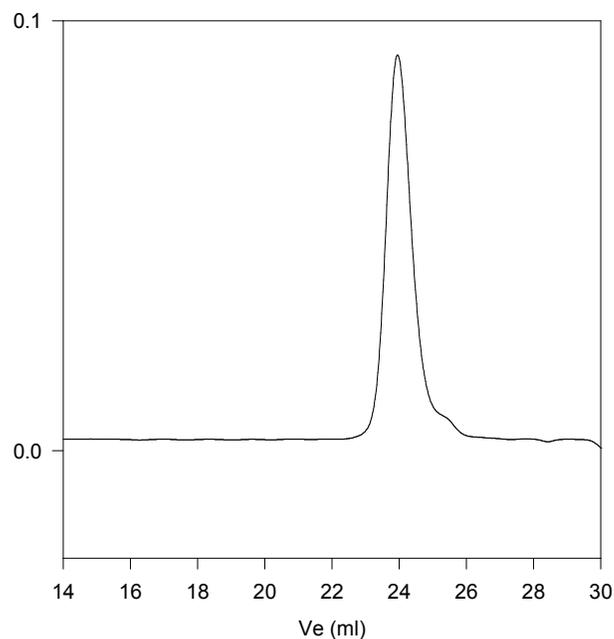
Characterization:

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 CO_2H function.

Solubility:

SEC of Sample:

P2552-MMA2COOH



Size exclusion chromatography of α,ω - dicarboxy Terminated poly(methyl methacrylate) before termination with CO_2

$M_n=5000$, $M_w=5600$, $PI=1.13$