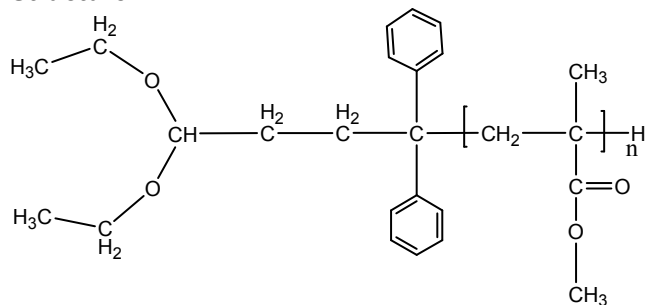


Sample Name:

Diethyl acetal Propionaldehyde Terminated Poly methylmethacrylate

Sample #: **P10109-MMA-acetal**

Structure:



Composition:

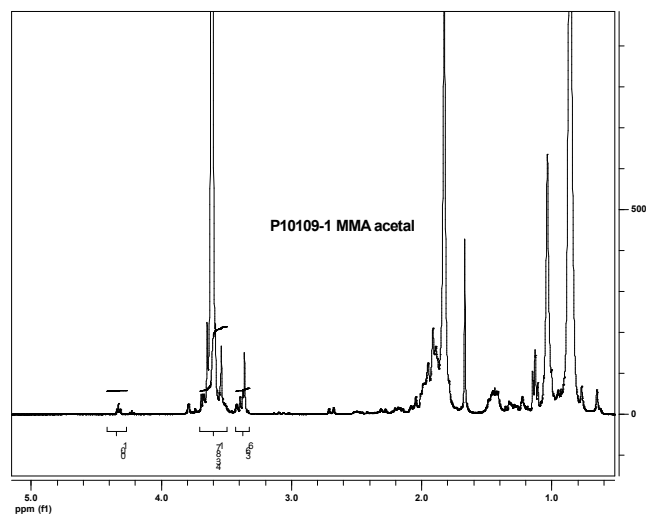
Mn x 10 ³	PDI	Functionality %
5.5	1.17	>99

Characterization:

The molecular weight and polydispersity index of this polymer were determined before addition of the CO₂H function, by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Polymer functionality was determined by ¹H NMR.

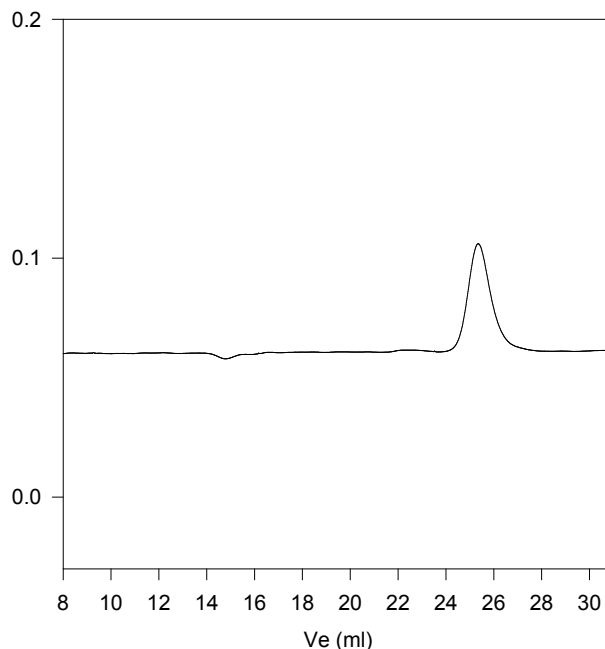
Solubility: Polymer is soluble in toluene, THF, CHCl₃ and can be precipitated in water and cold methanol.

H NMR of the Acetal PMMA



SEC of Sample:

P10109-MMAAcetal



Size exclusion chromatography of polymer
—— M_n=5,500, M_w=6,300, Mw/Mn=1.17