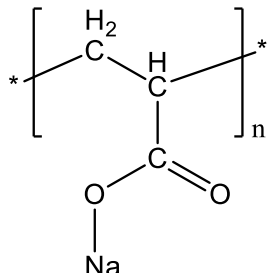


Sample Name: **Poly(sodium acrylate)**

Synonym: **Poly(acrylic acid) sodium salt**

Sample # **P242-ANa**

Structure:

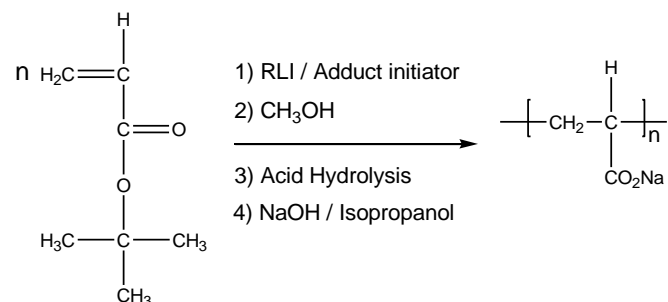


Composition:

Mn x 10 ³	Mw/Mn
1.4	1.16

Synthesis procedure:

Poly(sodium acrylate) was synthesized by living anionic polymerization of tert-butyl acrylate followed by hydrolysis of the tert-butyl group and neutralization with NaOH. The reaction scheme is shown below.

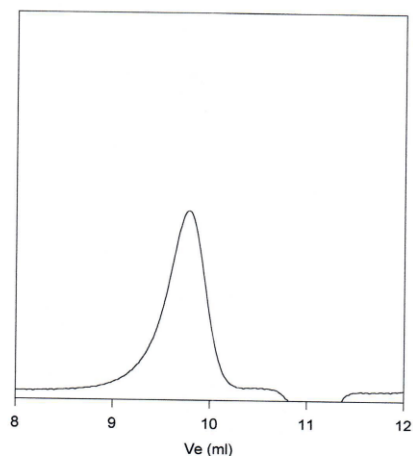


Characterization:

The molecular weight and polydispersity index (Mw/Mn) of poly(sodium acrylate) were obtained by size exclusion chromatography (SEC). The hydrolysis of the ester group was confirmed by FT-IR spectroscopy.

SEC elugram of the Sample:

P242-ANa



Aqueous Size Exclusion Chromatography of Poly(sodium acrylate):

M_n=1400, M_w=1620, PI=1.16