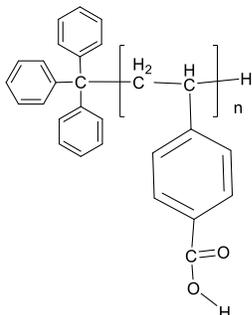


Sample Name: Poly(4-vinyl benzoic acid)

Sample #: P42997-VBA

Structure:



Composition:

Mn x 10 ³	PDI
10.0	1.38
Traces of unreacted monomer	> 0.1%
Presence of unhydrolyzed tert Butyl ester	>1%

Synthesis Procedure:

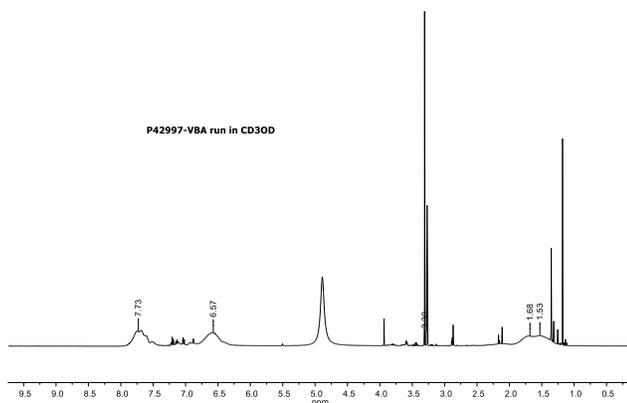
Using triphenyl potassium initiator and polymerization at -80 oC

Poly(4-vinyl benzoic acid) is synthesized by making the 4-t-butyl styrene monomer followed by polymerization and hydrolysis of the t- butoxy group.

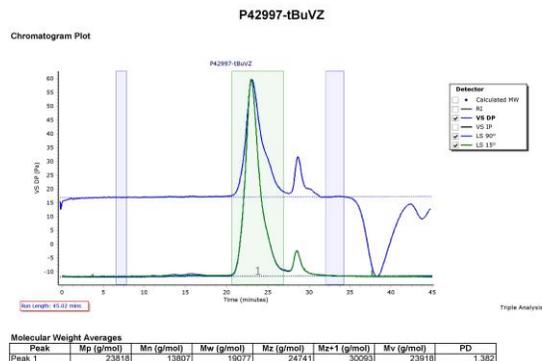
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR data analysis.

¹H-NMR spectrum of Poly 4-Vinyl Benzoic acid :



SEC elugram of Homopolymer:



After Hydrolysis of ester to COOH Mn; 10,000

FT-IR spectrum:

