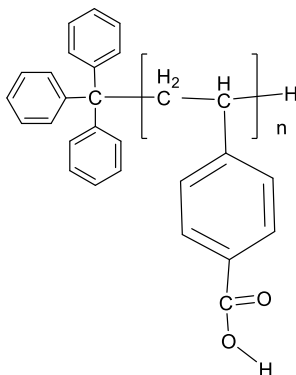


Sample Name: Poly(4-vinyl benzoic acid)

Sample #: P42995-VBA

Structure:



Composition:

Mn x 10 ³	PDI
4.0	1.12
Traces of unreacted monomer	> 0.1%
Presence of unhydrolyzed tert Butyl ester	>0.1%

Synthesis Procedure:

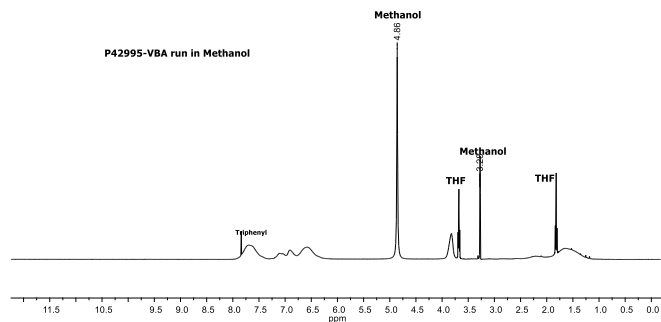
Using triphenyl potassium initiator and polymerization at -95 oC

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.

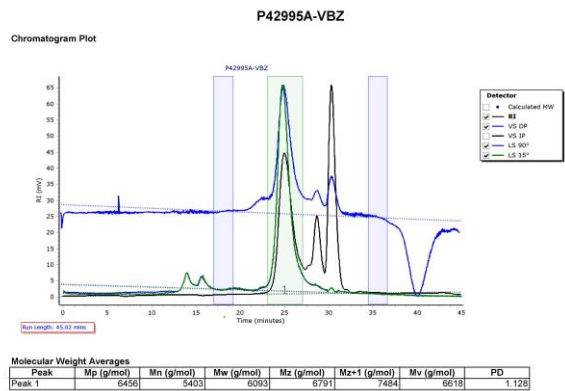
Characterization:

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:4,000.

FT-IR spectrum:

