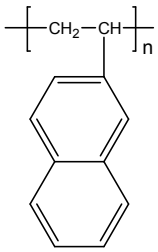
Sample Name: **Poly(2-vinyl naphthalene)**

Sample #: **P10986A-2VN**

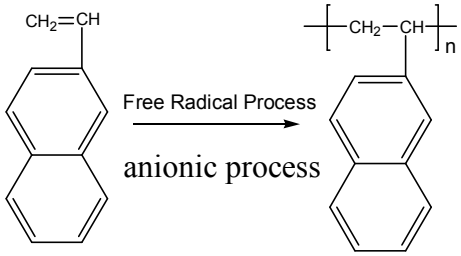
Structure:



Composition:

Mn x 10^3	PDI
3.2	1.35

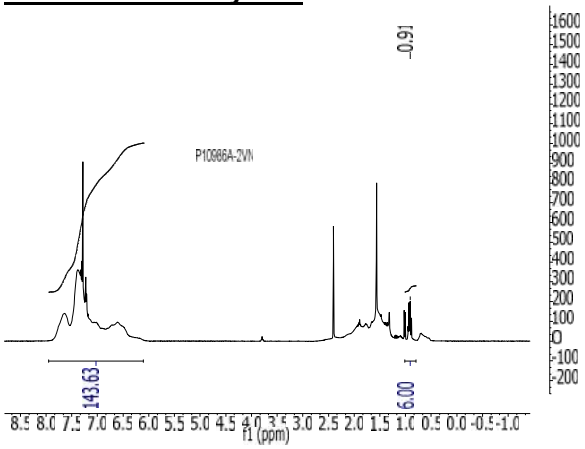
Synthesis Procedure:
Poly(2-vinyl naphthalene) is synthesized by free radical or anionic living polymerization 2-vinyl naphthalene and the reaction scheme is below.



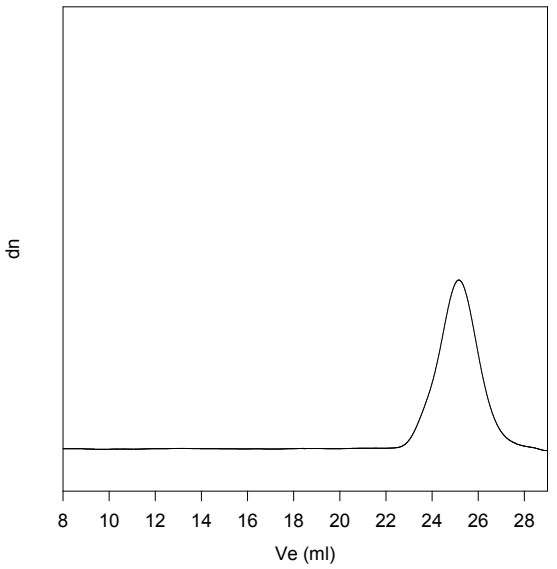
Characterization:
The molecular weight and polydispersity index (PDI) of Poly(2-vinyl naphthalene) are obtained by size exclusion chromatography.

Solubility:
Poly(2-vinyl naphthalene) is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.

^{1}H NMR of the Polymer:



SEC of Homopolymer: P10898A-2VN
P10986A-2VN



Size Exclusion Chromatography of Poly(2-Vinylnaphthalene)
M_n=3,200, M_w=4,300, PI=1.35

For details, please see the following article:
Faquan Zeng, Mu Yang, Jianxin Zhang, **Sunil K. Varshney,** "Synthesis and characterization of block copolymers from 2-vinylnaphthalene by anionic polymerization" J. of Polymer Science, Journal of Polymer Science Part A: Polymer Chemistry, 40, 24, 4387-4397 2002.