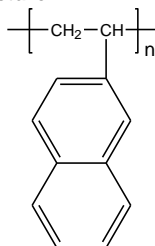


Sample Name: Poly(2-vinyl naphthalene)

Sample #: P8270-2VN

Structure:

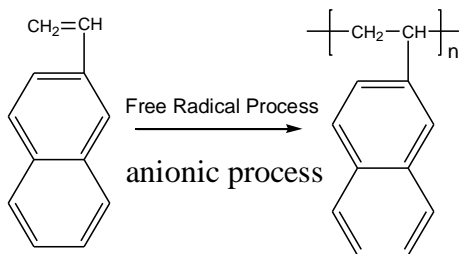


Composition:

$M_n \times 10^3$	PDI
45.0	1.6

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:

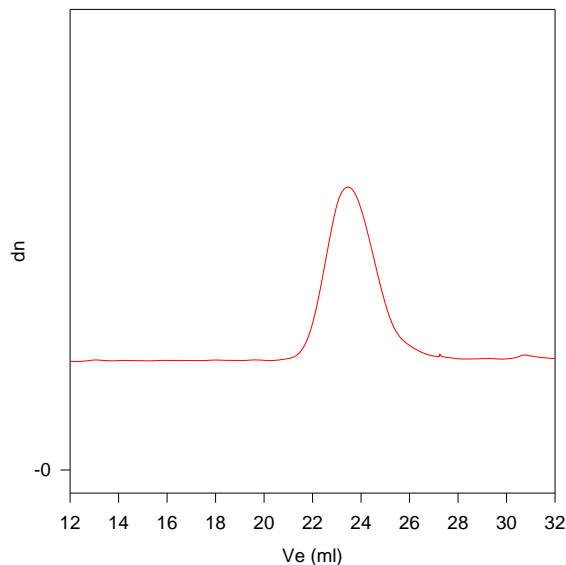
The molecular weight and polydispersity index (PDI) of Poly(2-vinyl naphthalene) are obtained by size exclusion chromatography.

Solubility:

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

SEC of Homopolymer:

P8270-2VN



Size Exclusion Chromatography of Poly(2-Vinyl naphthalene)

$M_n=45000$, $M_w=72000$, $PI=1.6$

dn/dc in THF at 35 OC: 0.230 ml/g

Solution viscosity in THf at 35 oC: 0.28dl/g

For further Information, please see the following our paper:

1. Faquan Zeng, Mu Yang, Jianxin Zhang, **Sunil K. Varshney**,

“Synthesis and characterization of block copolymers from 2-vinyl naphthalene by anionic polymerization” J. of Polymer Science, Journal of Polymer Science Part A: Polymer Chemistry, 40, 24, 4387-4397 2002.