

Product Profile

Identification

Product Name: Poly(styrene-b-2-vinyl-pyridine)

Product Lot Number: P18220-R-S2VP

CAS #: 24980-54-9

Product Chemical Architecture:



Composition:

Composition (S-b-2VP)	26,000-b-26,000
2VP mole %	50.4
Mn (g/mole)	52,000
Mw (g/mole)	54,000
Mw/Mn	1.04
dn/dc (mL/g) in DMF at 35 °C	0.16

Method of Synthesis

The polymer is synthesized by anionic polymerization process.

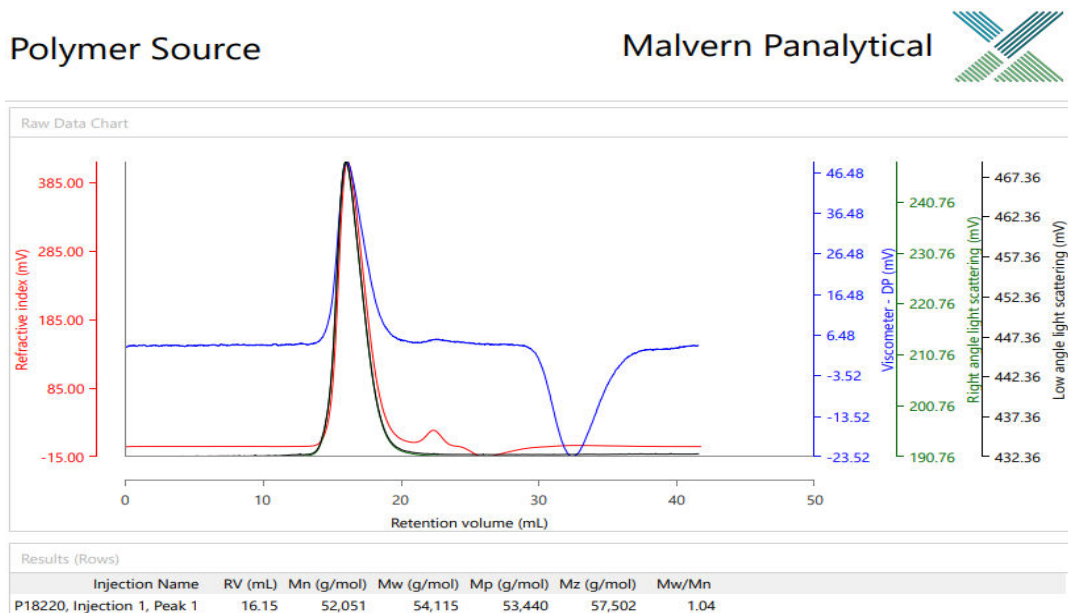
Solubility in different solvents:

THF	√	DMF	√
Alcohol	Depends on composition	CHCl ₃	√
Toluene _(hot)	√	Water	X

Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC Profile:

Molecular weights were determined by Malvern OmniSec Reveal & Resolve GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LALS 7°) and two columns (PSS, SDV, 8x300 mm). DMF with 0.023M LiBr was the eluent. The flow rate was 0.7 ml/min.



D. ¹H NMR (500 MHz, CHCl₃) of P18220-S2VP

CC(C)C(c1ccccc1)C(Cc2ccccc2)C(Cc3ccccc3)C(C)C

P18220-S2VP

1.00

7.92

f1 (ppm)