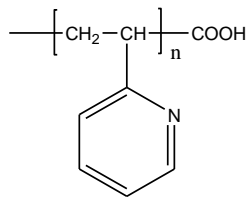


Sample Name:
Carboxy Terminated Poly(2-Vinyl Pyridine)

Sample #: P7546- 2VPCOOH

Structure:

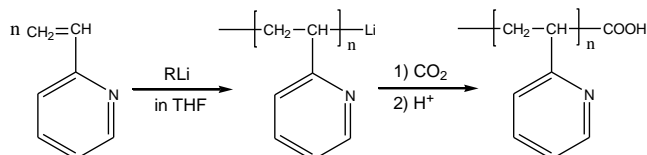


Composition:

$M_n \times 10^3$	PDI
10.0	1.08
T_g for the functional polymer	78°C

Synthesis Procedure:

Carboxy terminated poly(2-vinyl pyridine) was prepared by living anionic polymerization of 2-vinyl pyridine in THF followed by termination with dried CO₂. The scheme of the reaction is illustrated below:



Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

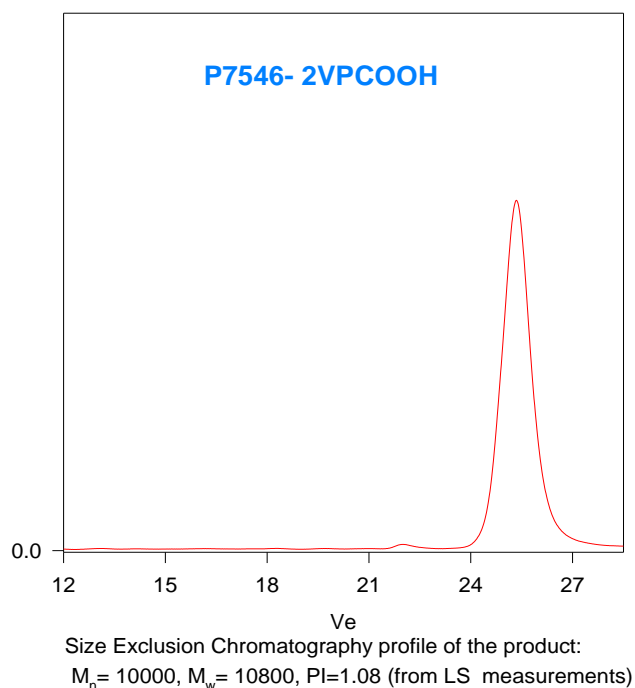
Thermal analysis:

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

Solubility:

Polymer is soluble in DMF, THF, toluene, methanol and CHCl₃. It precipitates from hexane, ether.

SEC of Sample:



DSC thermogram for the sample:

