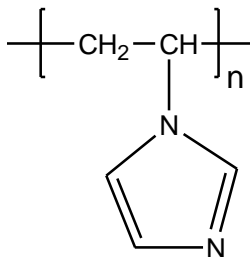


Sample Name: Poly(N-vinyl imidazole)

Sample#: P44765-VIMDZ

Structure:

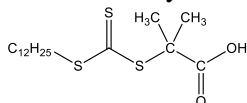


Composition:

$M_n \times 10^3$	PDI
87.0	2.04

Synthesis Procedure:

Polymer is obtained by RAFT polymerization.



Chemical Formula: $C_{17}H_{32}O_2S_3$
Molecular Weight: 364.6

Characterization:

The molecular weight and polydispersity index (PDI) of polymer is obtained by size exclusion chromatography in aqueous system (water as eluent with 0.1% trifluoroacetic acid and 0.2M NaCl). The columns were calibrated with polyethylene glycol.

Thermal analysis

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of $10^\circ\text{C}/\text{min}$. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:

Polymer is soluble in water, methanol and precipitated out from hexane, ether.

SEC elugram of Homopolymer:

