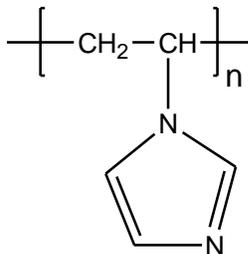


**Sample Name: Poly(N-vinyl imidazole)**

**Sample#: P44765-VIMDZ**

**Structure:**

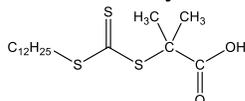


**Composition:**

$M_n \times 10^3$	PDI
87.0	2.04

**Synthesis Procedure:**

Polymer is obtained by RAFT polymerization.



Chemical Formula:  $C_{17}H_{22}O_2S_3$   
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°C/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:**

