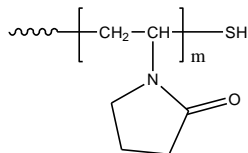


**Sample Name: Thiol terminated Poly(N-vinylpyrrolidone)**

**Sample #: P7337-NVPSH**

**Structure:**

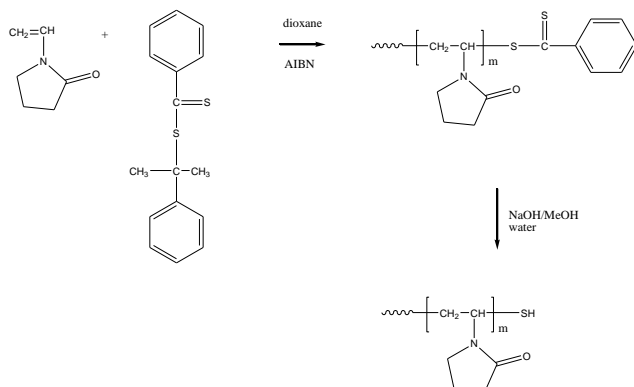


**Composition: (functionality: 60%mol)**

Mn x 10 <sup>3</sup>	PDI
1.5	1.2

**Synthesis Procedure:**

The polymer was prepared by reversible addition-fragmentation chain transfer polymerization (RAFT) of N-vinyl pyrrolidone with a AIBN as initiator and cumyl dithiobenzoate as chain-transfer agent, followed by hydrolysis. The scheme of the reaction is illustrated below:



**Characterization:**

The molecular weight and polydispersity was determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector and DMF containing 0.05M LiBr salt as eluent.

**Solubility:**

The polymer is soluble in water methano, ethanol, DMF, and dioxane, not soluble in hexane.

**NMR of sample**

