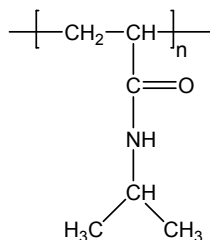


**Sample Name:** Poly(N-isopropyl acrylamide)

**Sample #:** P6669-NIPAM

**Structure:**

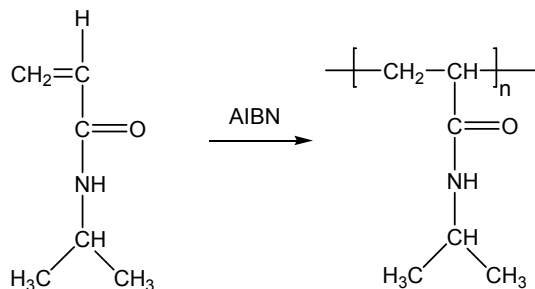


**Composition:**

Mn x 10 <sup>3</sup>	PDI
182	4.7

**Synthesis Procedure:**

Poly(N-isopropyl acrylamide) is obtained by free radical polymerization. The scheme of the polymerization is illustrated below:



**Characterization:**

The molecular weight polydispersity index (PDI) of poly(N-isopropyl acrylamide) is obtained by size exclusion chromatography. Molecular weight is calculated based on intrinsic viscosity in Methanol at 25 °C:

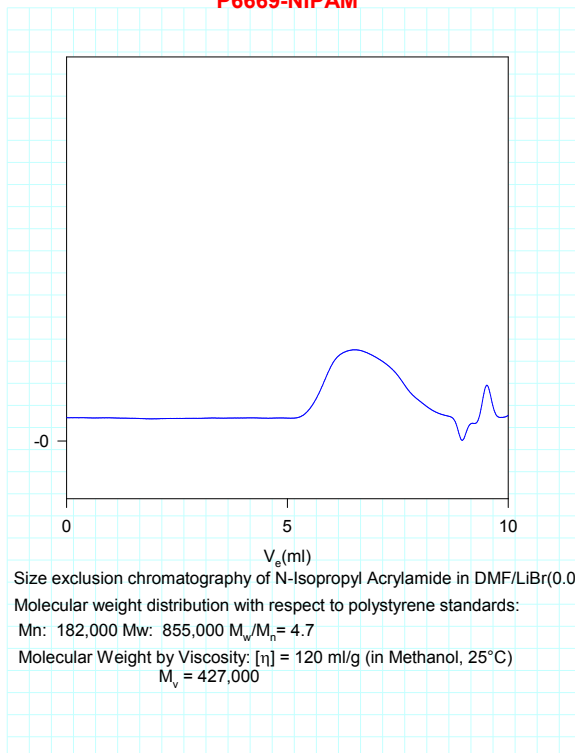
$$[\eta] = 0.0299 \times M_v^{0.64}$$

**Solubility:**

Poly(N-isopropyl acrylamide) is soluble in water, DMF, THF, acetone, insoluble in hexane and ether.

**SEC of Homopolymer:**

**P6669-NIPAM**



**P6669-NIPAM**

