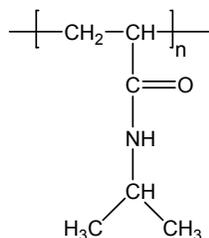


## Sample Name: Poly(N-isopropyl acrylamide)

Sample #: P6669-NIPAM

Structure:

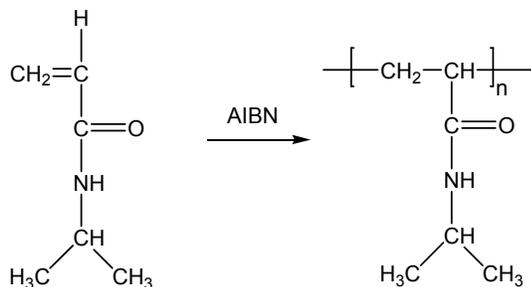


Composition:

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:

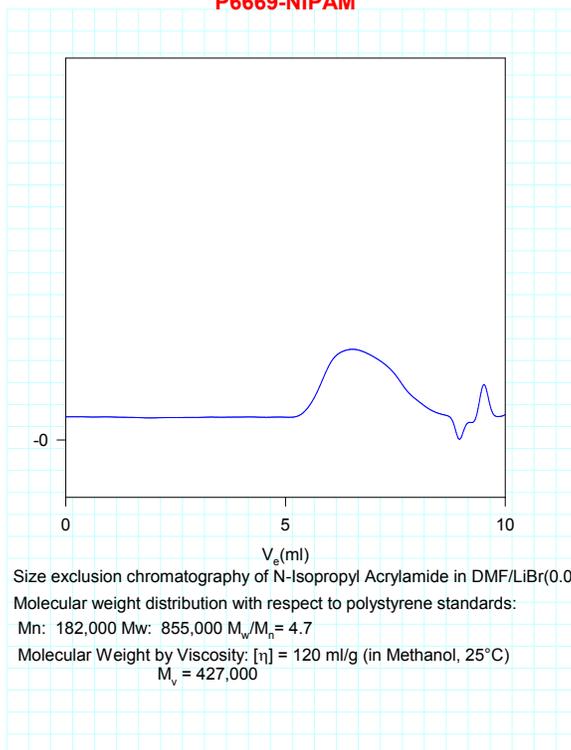
$$[\eta] = 0.0299 \times M_v^{0.64}$$

Solubility:

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

SEC of Homopolymer:

P6669-NIPAM



P6669-NIPAM

