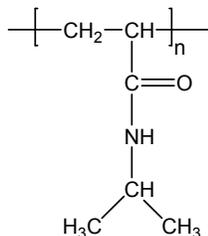


Sample Name: Poly(N-isopropyl acrylamide)

SEC of Homopolymer:

Sample #: P6672-NIPAM

Structure:

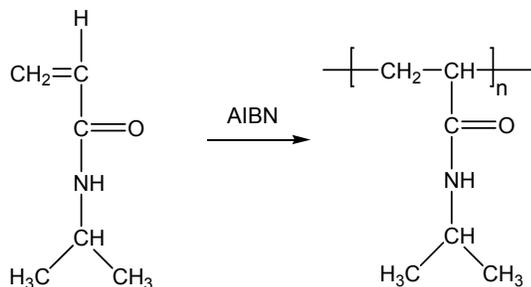


Composition:

Mn x 10 ³	PDI
637.7	2.9

Synthesis Procedure:

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



Characterization:

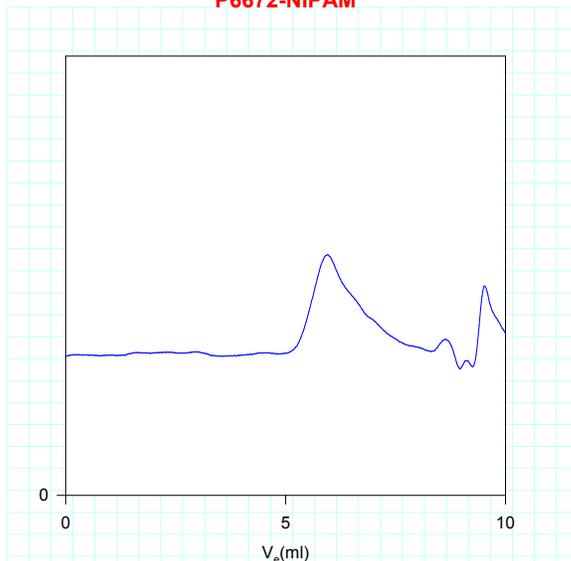
The molecular weight polydispersity index (PDI) of poly(N-isopropyl acrylamide) is obtained by size exclusion chromatography. Molecular weight is calculated based on intrinsic viscosity in Methanol at 25 °C:

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

Solubility:

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

P6672-NIPAM



P6672-NIPAM

