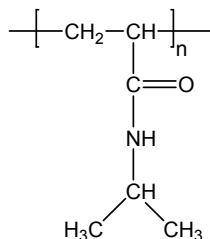


Sample Name: Poly(N-isopropyl acrylamide)

Sample #: P6668D-NIPAM

Structure:

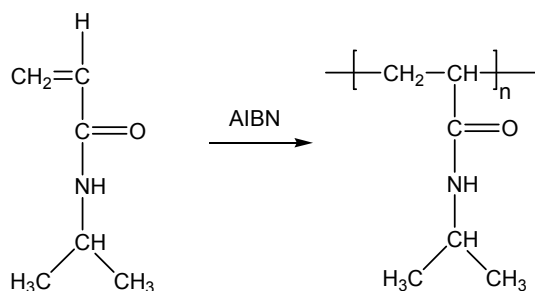


Composition:

$M_n \times 10^3$	PDI
53.0	1.10

Synthesis Procedure:

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



Characterization:

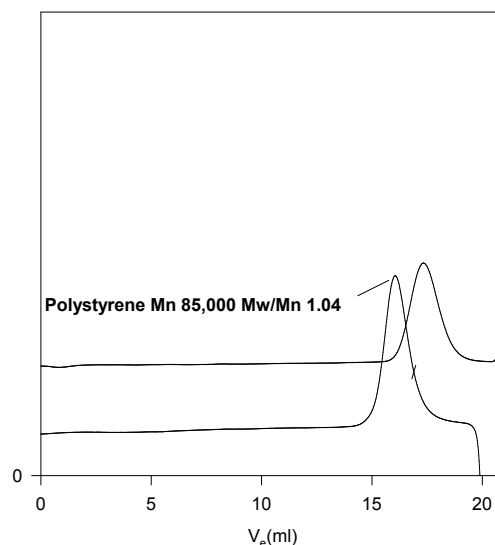
The molecular weight and polydispersity index (PDI) of poly(N-isopropyl acrylamide) are obtained by size exclusion chromatography.

Solubility:

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

SEC of Homopolymer:

P6668D-NIPAM



Size exclusion chromatography of N-Isopropyl Acrylamide in DMF/LiBr(0.05M)
Molecular Weight Distribution with respect to Polystyrene Standards:
Mn: 53,000 Mw: 58,000 $M_w/M_n = 1.10$