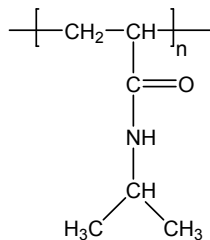


Sample Name: Poly(N-isopropyl acrylamide)

Sample #: # P11137A-NIPAM
synthesized using RAFT polymerization process

Structure:

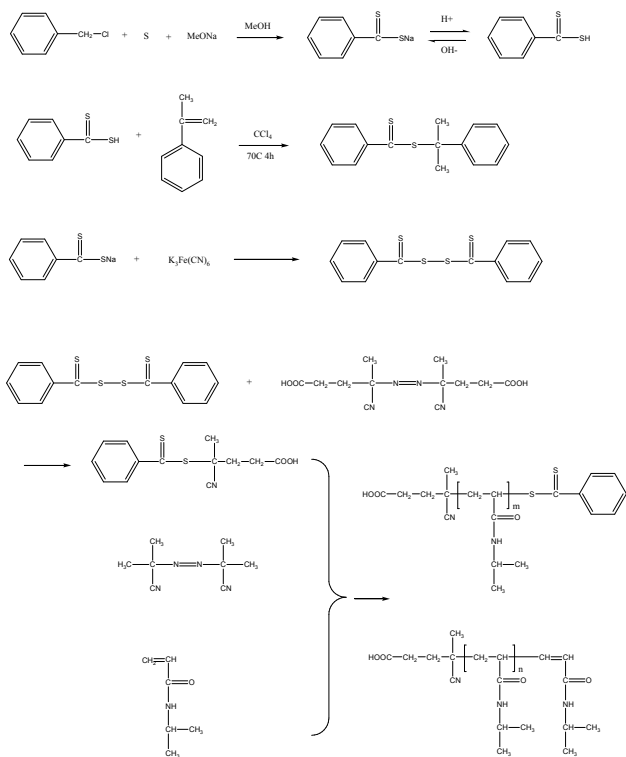


Composition:

Mn x 10 ³	PDI
25.0	2.48

Synthesis Procedure:

Poly(N-isopropyl acrylamide) is obtained by RAFT polymerization as reported in Macromolecules 2002, 35, 6819. The scheme of the polymerization is illustrated below:



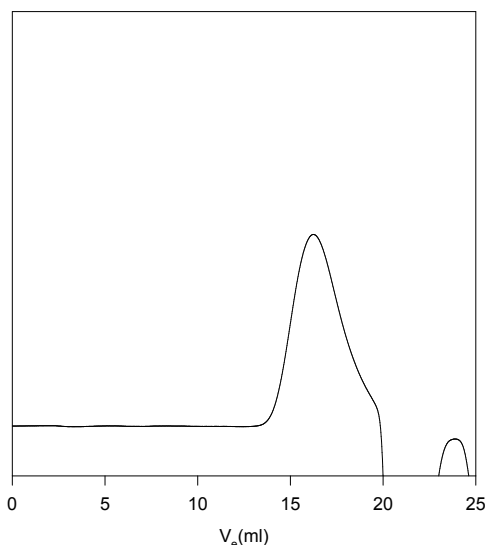
Characterization:

The molecular weight and polydispersity index (PDI) of poly(N-isopropyl acrylamide) are obtained by size exclusion chromatography in DMF using LiBr 0.01M solution.

Solubility:

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

SEC of Homopolymer:
P11137A-NIPAM



Size exclusion chromatography of N-Isopropyl Acrylamide in DMF/LiBr(0.01M)

Molecular Weight Distribution with respect to Polystyrene Standards:

Mn : 25,000 $M_w/M_n = 2.48$