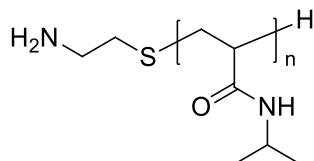


Sample Name: Poly(N-isopropyl acrylamide),
 α -Amino Terminated

Sample #: P60691-20-NIPAMNH2

Structure:

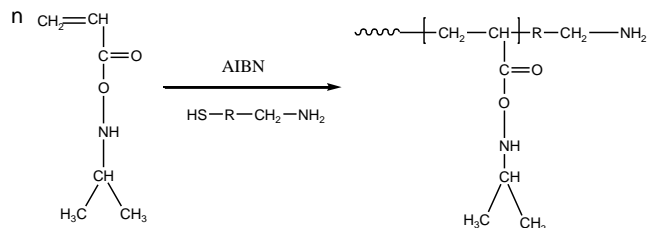


Composition:

| $M_n \times 10^3$ | PDI |
|-------------------|------|
| 195.3 | 1.38 |

Synthesis Procedure:

Amino Terminated Poly(N-isopropyl acrylamide) was prepared by free-radical polymerization of N-isopropyl acrylamide in the presence of an amino group containing chain-transfer agent. The final polymer was purified by fractionation. The scheme of the reaction is illustrated below:



Characterization:

GPC-SEC experiments for MW and polydispersity determination, were performed on Agilent or Malvern tri-detector systems, equipped with a refractive index, viscometer and light-scattering detectors and a set of two or three Supelco columns. DMF, with up to 0.02M of LiBr, was used as a mobile phase.

Solubility:

The polymer is soluble in water, THF, CHCl_3 and CH_2Cl_2 , insoluble in hexane and ether

SEC profile of the Sample:
Dn/dc value used: 0.077 mL/g

