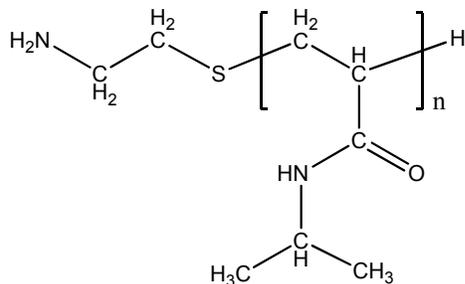


Sample Name:

Amino-terminated poly(N-isopropyl acrylamide)

Sample # P6145A-NIPAMNH2

Structure:

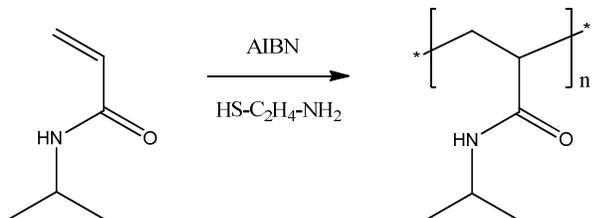


Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
50.5	1.53

Synthesis Procedure:

Amino-terminated poly(N-isopropyl acrylamide) was prepared by free-radical polymerization of N-isopropyl acrylamide in presence of an amino-group containing chain-transfer agent. The product was purified by fractionation. The scheme of reaction is shown below:



Characterization:

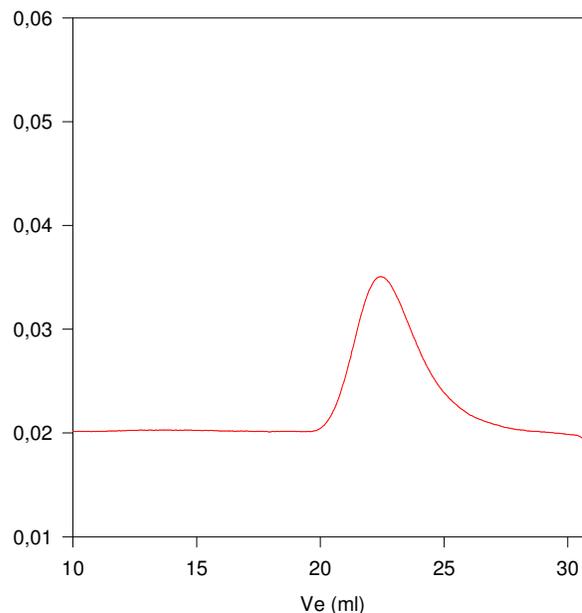
The molecular weight and functionality degree of the polymer were calculated by titration using HClO_4 /Crystal violet in CHCl_3 /acetic acid. The polydispersity index (M_w/M_n) was determined by size exclusion chromatography (SEC) on a Varian liquid chromatograph equipped with a triple detector.

Solubility:

The polymer is soluble in water, THF, chloroform and dichloromethane; and is insoluble in hexane and ether.

SEC elugram of the polymer:

P6145A-NIPAMNH2



Size exclusion chromatography of poly(N-isopropylacrylamide) with respect to polystyrene standards:
Eluent: DMF
 $M_w/M_n=1.53$, M_n by titration: 50500