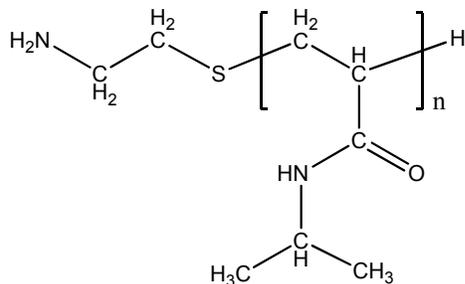


Sample Name:

Amino-terminated poly(N-isopropyl acrylamide)

Sample # P20150A-NIPAMNH2

Structure:

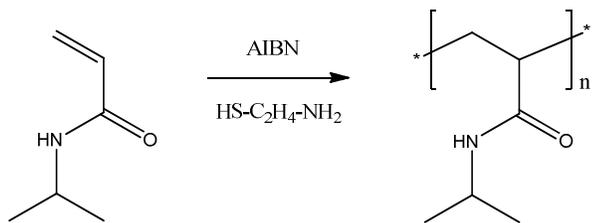


Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
166.0	1.8
Syndio: Hetero+iso contents	

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 HClO₄/Crystal violet in CHCl₃/acetic acid. The polydispersity index (M_w/M_n) was determined by size exclusion chromatography (SEC) on a Varian liquid chromatography equipped with a triple detector.

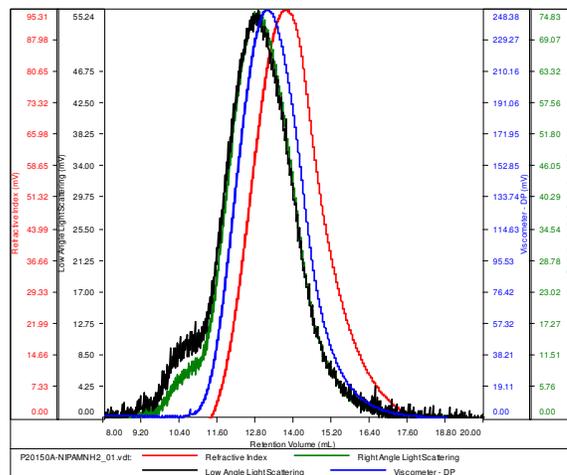
Solubility:

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

SEC elugram of the polymer:

SAMPLE ID: P20150A-NPAM-NH2

Conc (mg/mL)	9.2726
dn/dc (mL/g)	0.0770
Method	PS80K-17SEP2014-0000.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P20150A-NIPAMNH2_01.vdt	165,292	301,207	224,991	1.822	0.6922