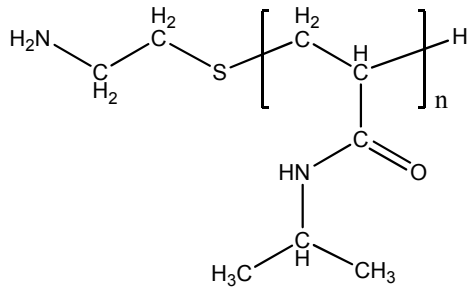
Sample Name:

Amino-terminated poly(N-isopropyl acrylamide)

Sample # **P20149-NIPAMNH2**

Structure:

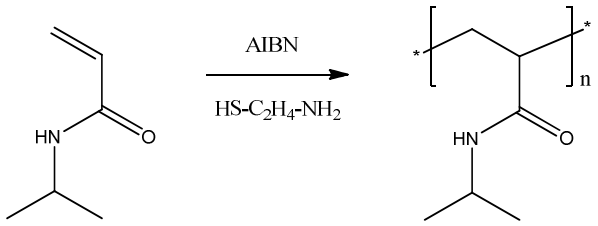


Composition:

M_n x 10^3 (g/mol)	M_w/M_n
37.0	1.8

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.

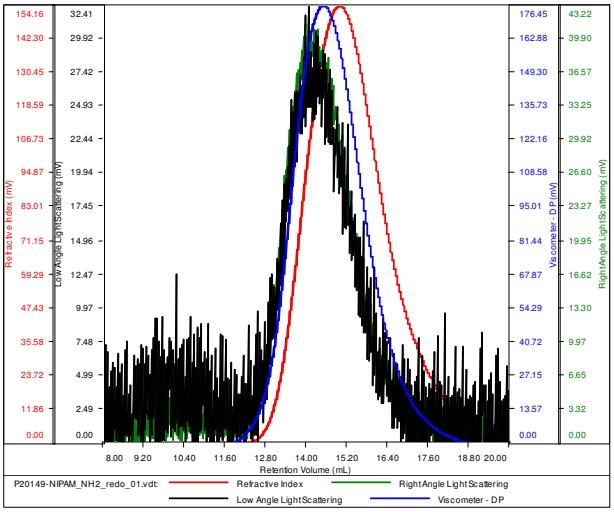
Solubility:

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

SEC elugram of the polymer:

SAMPLE ID: P20149-NIPAM-NH2

Conc (mg/mL)	15.0822
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
P20149-NIPAM_NH2_redo_01.vdt	37,101	68,722	73,469	1.852	0.2646