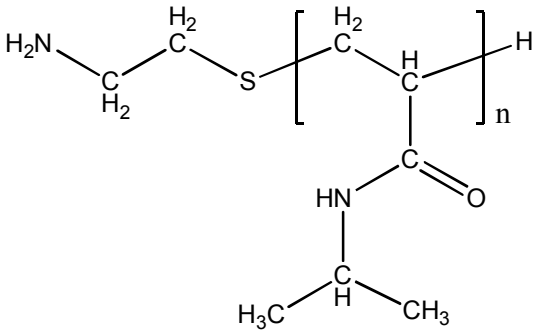
Sample Name:

Amino-terminated poly(N-isopropyl acrylamide)

Sample #: **P19834F10-NIPAMNH2**

Structure:

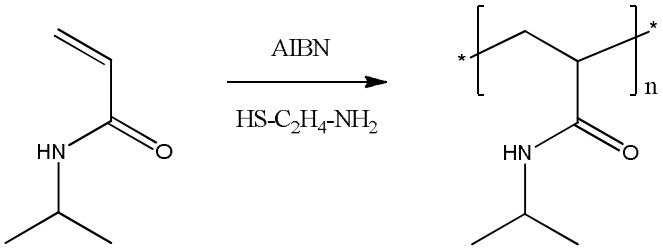


Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
96.0	1.5

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 (Scheme of the reaction is shown below). The product was purified by solvent fractionation.



Characterization:

The molecular weight and polydispersity index (M_w/M_n) were obtained by size exclusion chromatography (SEC) in DMF. SEC analysis was performed on a Viscotek liquid chromatograph equipped with a triple detector array.

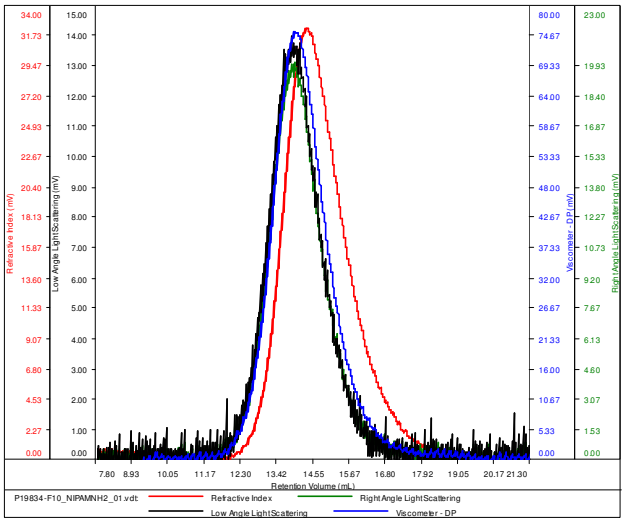
Solubility:

The polymer is soluble in water, THF, chloroform, DCM, DMF; and is insoluble in hexanes, ether.

SEC elugram of the polymer:

P19834-F10_NIPAMNH2

Conc (mg/mL)	3.3979
dn/dc (mL/g)	0.0770
Method	ps80k-May2016-0002.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P19834-F10_NIPAMNH2_01.vdt	96,129	148,917	154,790	1.549	0.4765