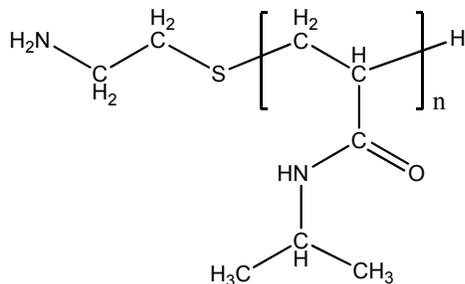


Sample Name:

**Amino-terminated poly(N-isopropyl acrylamide)**

Sample # **P6149A-NIPAMNH2**

**Structure:**

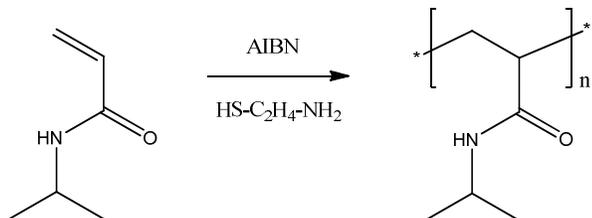


**Composition:**

$M_n \times 10^3$ (g/mol)	$M_w/M_n$
45.6	1.62

**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<sub>4</sub>/Crystal violet in CHCl<sub>3</sub>/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:**

