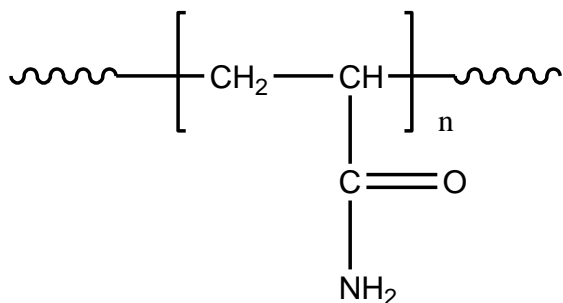


Sample Name: Poly (Acrylamide)

Sample #: P41564-AMD

**Structure:**



**Composition:**

$M_n \times 10^3$	Mw/Mn (PDI)
126.0	1.8
$T_g (^{\circ}\text{C})$	184

**Synthesis Procedure:**

Poly (Acrylamide) was synthesized by controlled radical polymerization process.

**Characterization:**

The polymer was characterized by size exclusion chromatography (SEC) using State-of-the-art Agilent Technologies 1260 Infinity II GPC system Equipped with triple detector:

**Solvent (mobile phase)** 2% acetic acid in Millipore water

**Filtration:** 0.45  $\mu$ Nylon Syringe Filter

**Columns:** Agilent three columns

**Flow Rate:** 1 ml/min

**Injection Volume:** 100  $\mu$ L

**Column Temperature:** 30  $^{\circ}\text{C}$

**Calibration of Instrument using PEO polymer.**

**Note:** Polyacrylamide bearing  $M_w > 1\text{M}$  are difficult to filter therefore this equipment is highly sensitive where less than 1mg/ml polymer solution can be detected by triple detector.

**Solubility:**

Polymer is soluble in water.

**SEC Profile of the Polymer:**

Agilent GPC/SEC Software

