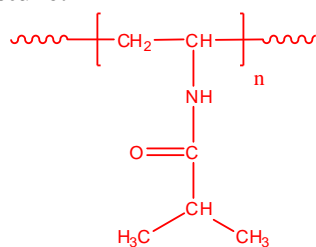


Sample Name: **Poly(N-vinyl isobutyramide)**

Sample # **P41305-NVIBA**

### Structure:



**Composition:**

Mn x 10 <sup>3</sup>	Mw/Mn
20.0	1.22

### Synthesis Procedure:

The polymer is prepared by RAFT polymerization process.

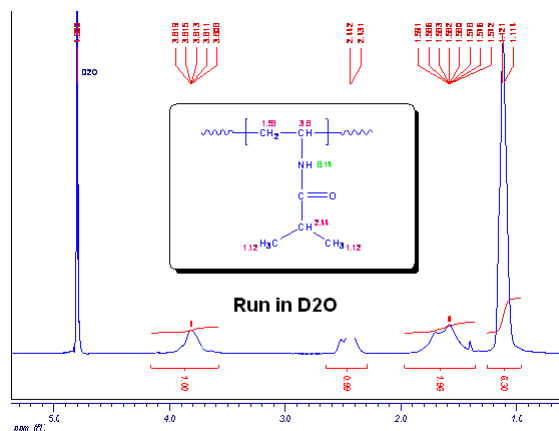
### Characterization:

The molecular weight and polydispersity index (PDI) of polymer is obtained by size exclusion chromatography in DMF.

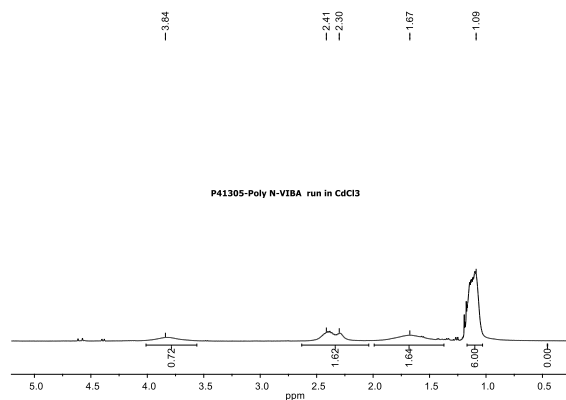
**Solubility:**

Polymer is soluble in water(<38°C), acetone, methanol and precipitated out from hexane, ether.

**D NMR spectrum of the polymer in D<sub>2</sub>O:**



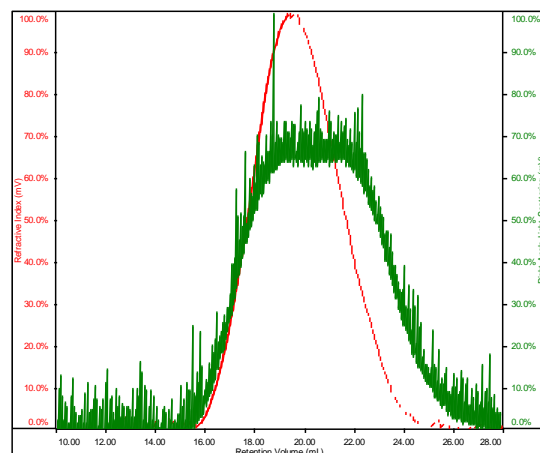
**H NMR spectrum of the Sample:**



**SEC elugram of Homopolymer:**

P41305-N-VIBA

Conc	5.7764
dn/dc	0.0870
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
_P41305-NVIBA_01.vdt	19,976	24,475	15,272	1.225	0.2159