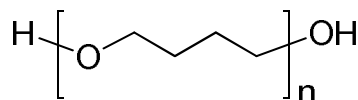


Sample name: **Poly(tetrahydrofuran)**  
(contains 200–350 ppm BHT as stabilizer)

Other name: Poly(1,4-butanediol), ( $\alpha$ -hydro,  $\omega$ -hydroxy)-terminated

Sample # **I-0002-THF**

**Structure:**



CAS Number: 25190-06-1

**Composition:**

$M_n \times 10^3$ (g/mol)	$M_w/M_n$
2.0	1.2

**Physical properties:**

Appearance:	semi-solid to solid
Colour:	white
Melting point (max.):	$T_m = 26^\circ\text{C}$

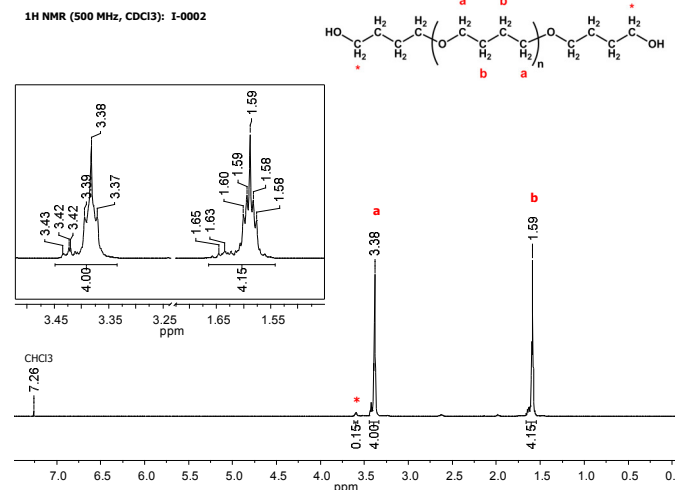
**Characterization methods:**

The molecular weight of the polymer was calculated from  $^1\text{H}$  NMR data recorded on Bruker Avance III 500 NMR spectrometer.

The polydispersity index of the polymer was determined by size exclusion chromatography (SEC).

Thermal analysis was performed on TA Instruments Q100 differential scanning calorimeter (DSC) under a nitrogen atmosphere. The melting point ( $T_m$ ) of the polymer was measured at a scan rate of  $10^\circ\text{C}/\text{min}$  shortly after creating thermal history of the sample.

**$^1\text{H}$  NMR spectrum of poly(THF) in  $\text{CDCl}_3$ :**



**DSC thermogram (2<sup>nd</sup> heating scan,  $10^\circ\text{C}/\text{min}$ ):**

