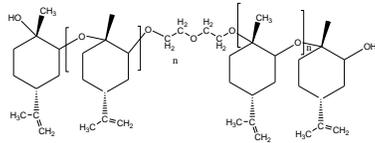


Sample Name: α,ω -dihydroxy-terminated poly(limonene Oxide)

Sample #: P41282-LimO

Structure:



Composition:

| | |
|-------------------------------------|--------------------------|
| Mn x 10 ³ | Mw/Mn |
| 1.8 | 1.48 |
| Glass transition temperature: | T _g = 53 °C |
| Onset of decomposition temperature: | T _{on} ≥ 260 °C |

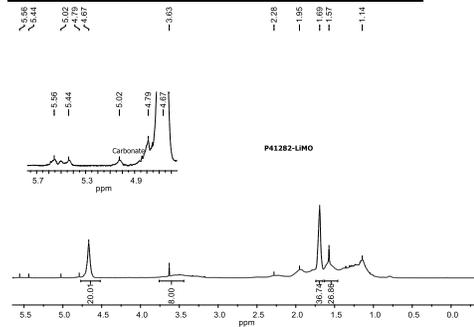
Characterization:

The product was characterized by size exclusion chromatography (SEC) using THF as an eluant, And by HNMR in CdCl₃.

Thermal analysis:

It was performed on TA Instruments TGA-550 Discovery (TGA) and Q100 differential scanning calorimeter (DSC). **TGA:** The degradation temperature was measured at a scan rate of 5°C/min under a nitrogen atmosphere. **DSC:** The glass transition temperature (T_g) of the polymer was measured at a scan rate of 10°C/min shortly after creating thermal history of the sample.

HNMR spectrum of the polymer:



FTIR of the polymer:

