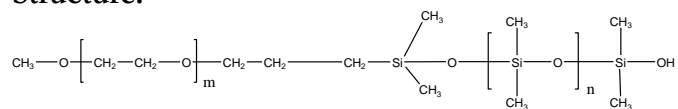


Sample Name: Poly(ethylene oxide-b-dimethylsiloxane) Silanol terminated

Sample #: P18972-EODMS

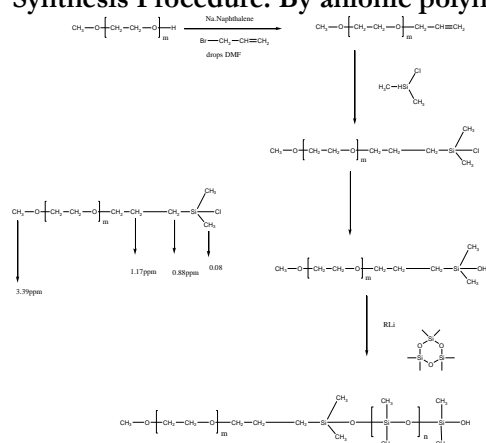
Structure:



Composition:

Mn × 10 ³ EO-b-DMS	PDI
5.5-b-65.0	1.3
Contain PEG silanol <15%	

Synthesis Procedure: By anionic polymerization:



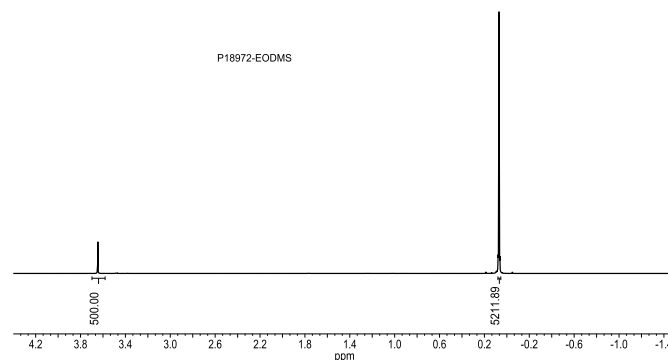
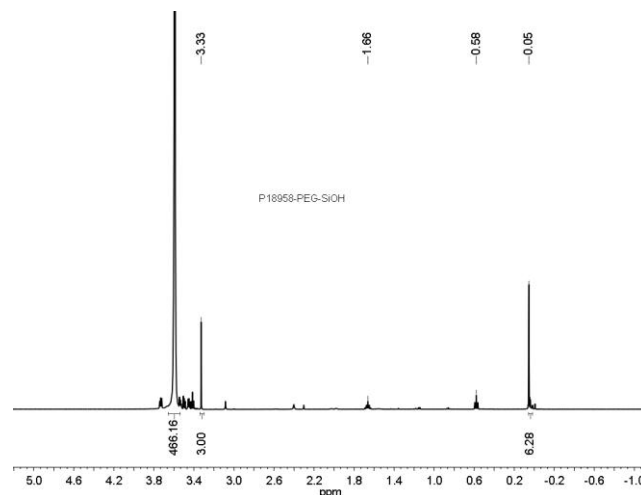
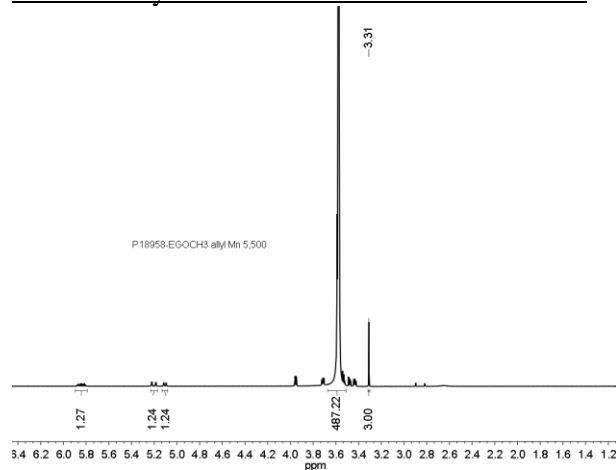
Characterization:

By SEC and by HNMR

Solubility:

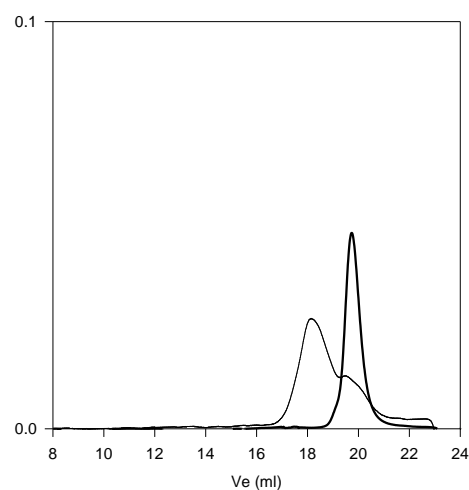
The polymer is soluble in THF, CHCl₃. It is precipitated out from cold ethanol, isopropanol, hexane and ether.

NMR of ally PEG-Used to convert into Silanol



SEC of Sample:

P18972-EODMS (silanol)



Size exclusion chromatography of the polymer

Size exclusion chromatography of Silanol terminated PEG

M_n=5,500, M_w=6,000 M_w/M_n=1.08

EODMS: Mn: 5,500-b-65,000 Mw/Mn: 1.3