

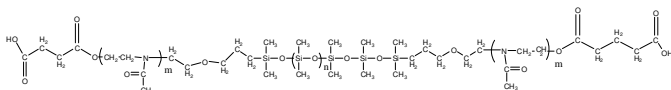
Sample Name:

**$\alpha$ - $\omega$ -Dicarboxylic acid end functionalized poly(2-methyloxazoline-b-dimethylsiloxane-b-2-methyloxazoline) triblock copolymer**

Sample #:

**P19418-MEOXZDMSMEOXZ2COOH**

**Structure:**

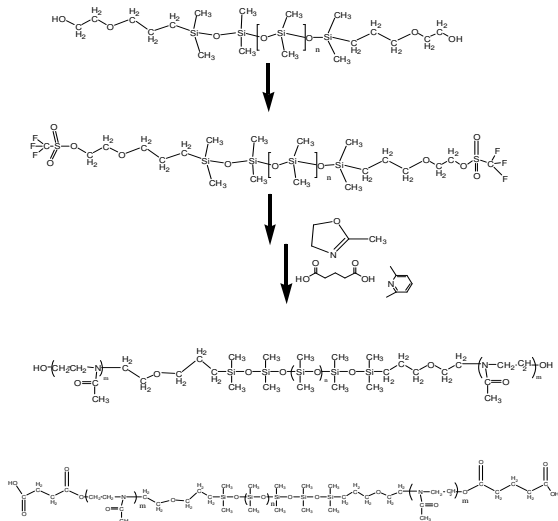


**Composition:**

$M_n \times 10^3$ (g/mol)	$M_w/M_n$
1.0-b-10.5-b-1.0	1.4

**Synthesis:** The reaction of polymerization is illustrated below

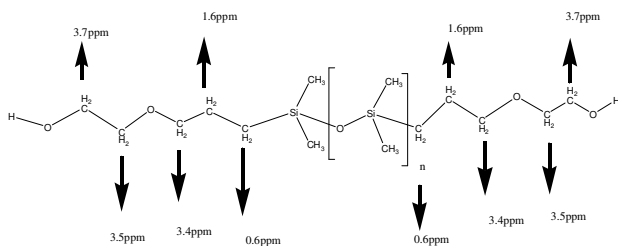
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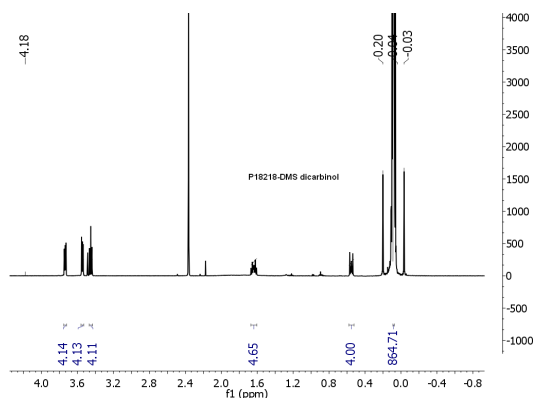
**Characterization:**

The polymer was characterized by SEC and  $^1\text{H}$  NMR

PDMSdicarbinol used in this polymer:

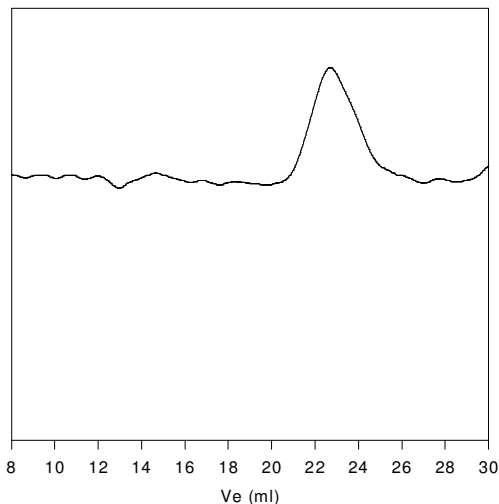


**$^1\text{H}$  NMR (500MHz,  $\text{CDCl}_3$ ) spectrum of DMS (middle block):**



**SEC of the middle block (DMS) of triblock copolymer:**

**P18218-DMS2OH**



Size Exclusion Chromatography in THF at 35 °C w.r.t PDMS standards.

$M_n = 10,500$ ,  $M_w = 15,200$ ,  $PI = 1.45$

**$^1\text{H}$  NMR (500MHz,  $\text{CDCl}_3$ ) spectrum of the final product:**

