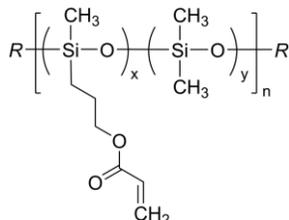


**Sample Name:** Poly(acryloxypropylmethylsiloxane-co-dimethylsiloxane), random

**Sample #:** P42224A-AcPrMSDMSran

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
5.5	1.4

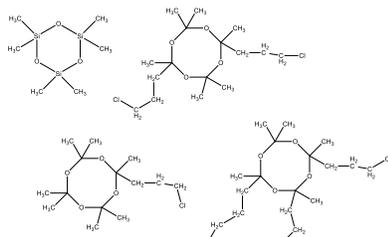
# of AcPrMS units	18 per 100 units of PDMS
Ratio of DMS: AcPrMS	5.5:1

**Synthesis Procedure:**

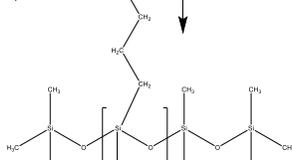
The polymer was synthesized by Cationic polymerization process using trifluorosulfonic acid using following 2 cyclic siloxane monomers mixture:

Three steps process to get random copolymer

Synthesis of Cyclics of the following architecture and mix them and to perform cationic process. End capping using TMS-(ET)3N or HMDS

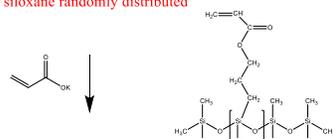


Step 2: Polymerization



Chloropropyl methyl siloxane randomly distributed

Step 3: functionalization

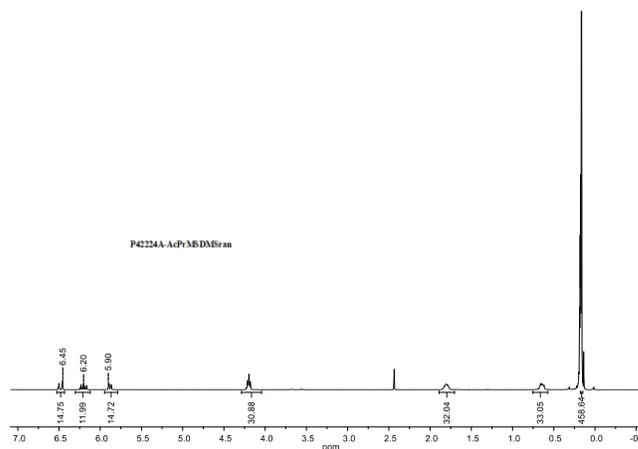


(acryloxypropyl)methylsiloxane - Dimethylsiloxane copolymer

**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

**HNMR spectrum of the polymer:**



**SEC elugram of the Sample:**

dn/dc	0.0900
Solvent	Toluene
Flow Rate	1.0000
Method	PS100K-July2019-0001.vcm

