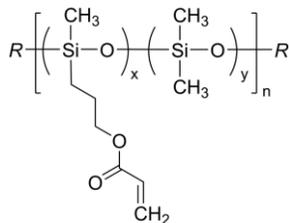


Sample Name: Poly(acryloxypropylmethylsiloxane-co-dimethylsiloxane), random

Sample #: P42224-AcPrMSDMSran

Structure:



Composition:

Mn x 10 ³	PDI
7.0	1.4

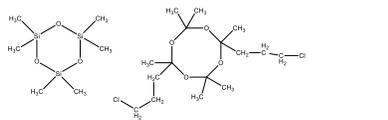
# of AcPrMS units	14 per 100 units of PDMS
Ratio of DMS: AcPrMS	6:1

Synthesis Procedure:

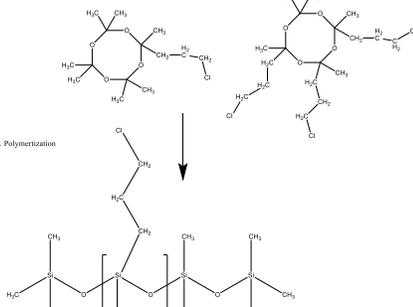
The polymer was synthesized by Cationic polymerization process using trifluorosulfonic acid using following 2 cyclic siloxane monomers mixture:

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

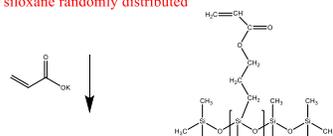


Step 2: Polymerization



Chloropropyl methyl siloxane randomly distributed

Step 3: functionalization

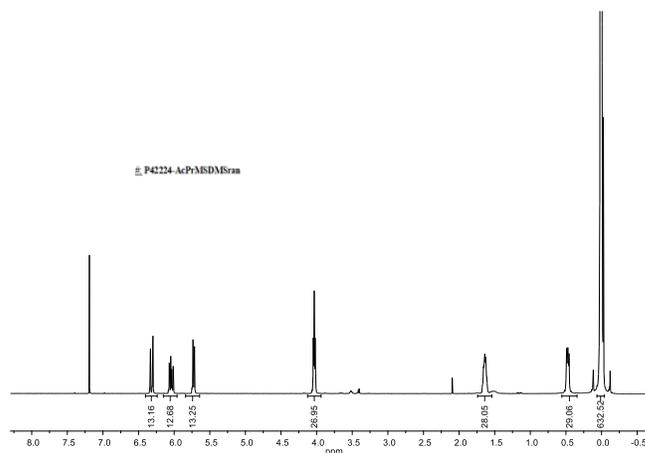


(acryloxypropyl)methylsiloxane - Dimethylsiloxane copolymer

Characterization:

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

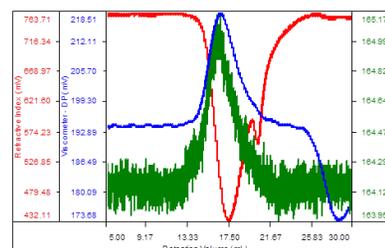
HNMR spectrum of the polymer:



SEC elugram of the Sample:

P42224-AcPrMSDMSran

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



Sample	Mn	Mw	IV	Mw/Mn
P4224-AcPrMSDMSran	7,000	9,000	0.1009	1.4