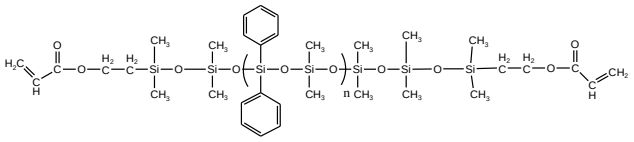
Sample Name:

α–ω diacrylate terminated random copolymer of Poly(dimethyl siloxane and poly diphenyl siloxane)

Sample #: **P8747-DMSDPS-2Acrylate**

Structure:



Composition: 17% diphenyl siloxane

Mn x 10^3	PDI
12.0	1.4
Functionality	Around 90%

Synthesis Procedure:

The polymer was prepared by Cationic polymerization process then modification of terminal silanol to diacrylate.

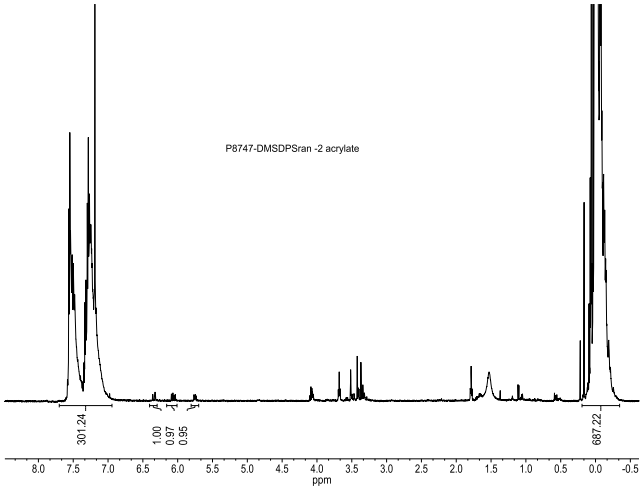
Characterization:

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

Solubility:

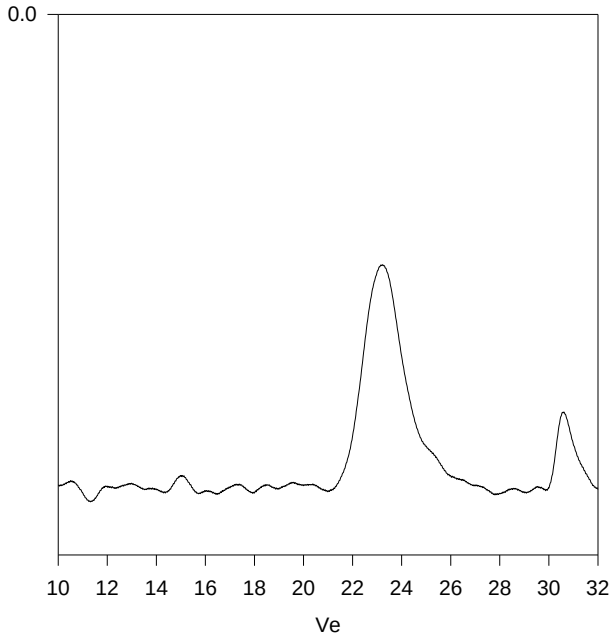
The polymer is soluble in CHCL3, THF. It is precipitated out from cold ethanol, isopropanol.

^{1}H NMR spectrum of the product:



SEC elugram of the Sample:

P8747-DMSDPS-2acrylate



M_n=12,000, M_w=17,000, Mw/Mn =1.4