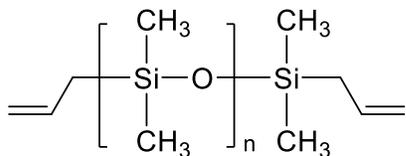


Product name:

Poly(dimethylsiloxane), α,ω -bis(allyl)-terminated

Product#: **P43022-DMS2Allyl**

Structure:

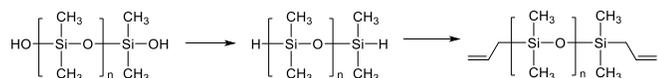


Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
3.5	1.3

Synthesis procedure:

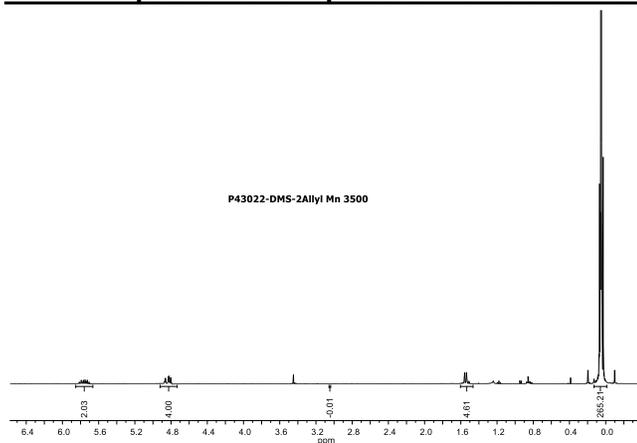
Allyl functionality was introduced by successive silanation of silanol-terminated PDMS by chlorodimethylsilane, followed by reaction with allyl alcohol in presence of catalyst. The scheme of reaction is presented below:



Characterization:

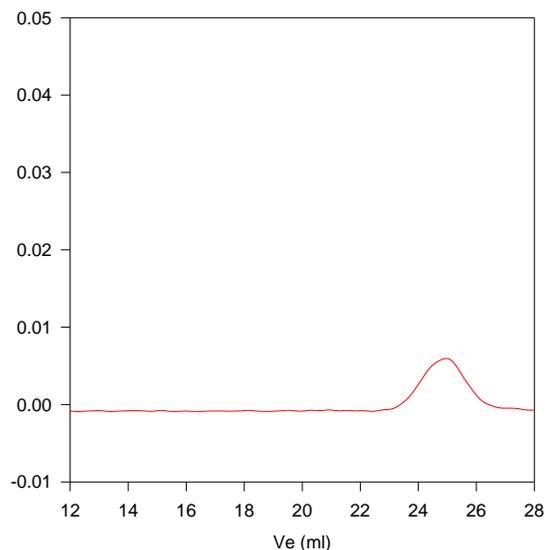
The molecular weight and polydispersity index of the product were determined by size exclusion chromatography (SEC). The functionalization of PDMS was confirmed by ^1H NMR spectroscopy.

^1H -NMR spectrum of the product in chloroform-d:



SEC elugram of the polymer in THF:

P43022-DMS2vinyl



Size exclusion chromatography of α,ω -diallyl terminated polydimethylsiloxane:

$M_n=3,500$, $M_w=4,500$, $PI=1.3$