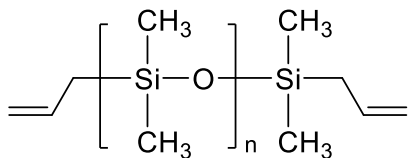


Product name:

**Poly(dimethylsiloxane),  $\alpha,\omega$ -bis(allyl)-terminated**

Product#: **P43022-DMS2Allyl**

Structure:

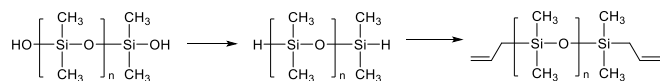


Composition:

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

Synthesis procedure:

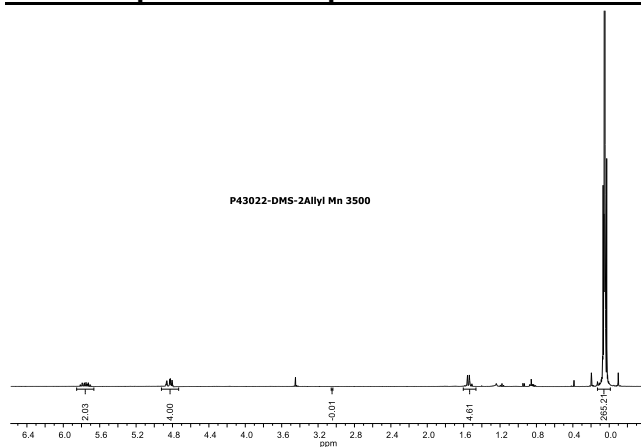
Allyl functionality was introduced by successive silanation of silanol-terminated PDMS by chlorodimethylsilane, followed by reaction with allyl alcohol in presence of catalyst. The scheme of reaction is presented below:



Characterization:

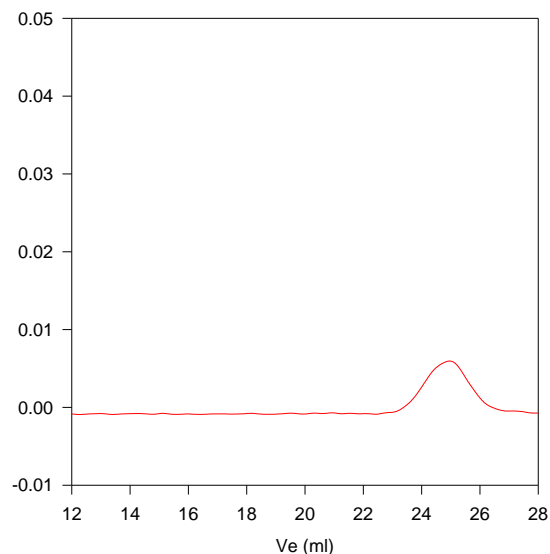
The molecular weight and polydispersity index of the product were determined by size exclusion chromatography (SEC). The functionalization of PDMS was confirmed by  $^1\text{H}$  NMR spectroscopy.

**$^1\text{H}$ -NMR spectrum of the product in chloroform-d:**



**SEC elugram of the polymer in THF:**

**P43022-DMS2vinyl**



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