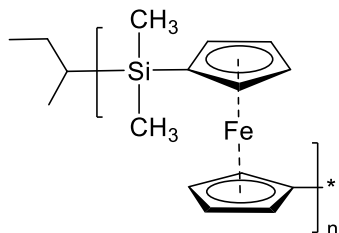


Sample Name: Poly(ferrocenyl dimethylsilane)

Sample #: P43639-FES

Structure:



Composition:

| | |
|---------------------------|-----------|
| $M_n \times 10^3$ (g/mol) | M_w/M_n |
| 6.0 | 1.37 |

Synthesis Procedure:

Poly(ferrocenyl dimethylsilane) was synthesized by anionic polymerization of 1,1-ferrocenyldimethylsilane monomer using sec-butyl lithium initiator.

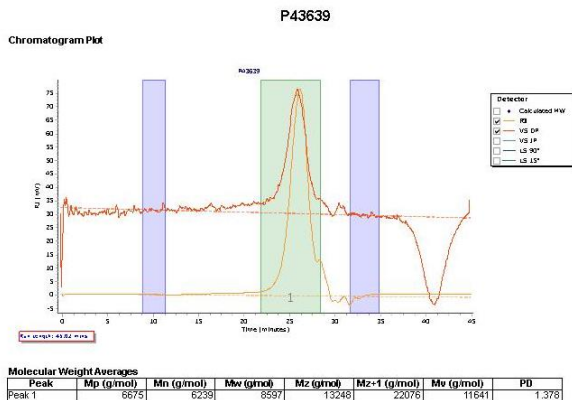
Characterization:

The molecular weight and polydispersity were determined by size exclusion chromatography (SEC). Glass transition temperature of the product was measured by DSC under nitrogen atmosphere shortly after creating thermal history.

Solubility:

Polymer is soluble in THF, chloroform, toluene; and it precipitates from ether and hexanes.

SEC chromatogram:



DSC thermogram (2nd heating scan, 10

°C/min):

$T_g = 28^\circ\text{C}$

