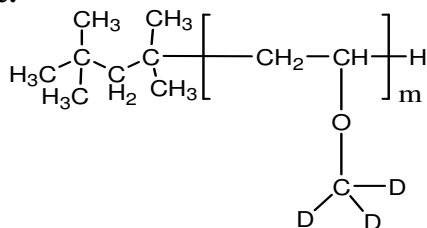


Sample Name:
Deuterated –d3(Poly(methyl vinyl ether))

Sample #: **P19916-d3MVE**

Structure:



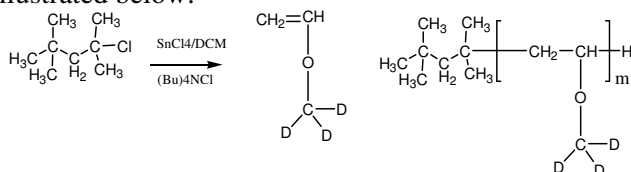
Composition:

$M_n \times 10^3$	PDI
30.0	1.15

Deuterium atom % for d3 methyl ether	86%
--------------------------------------	-----

Synthesis Procedure:

Deuterated (d3) Poly(methyl vinyl ether) is obtained by living cationic polymerization. The reaction scheme is illustrated below:



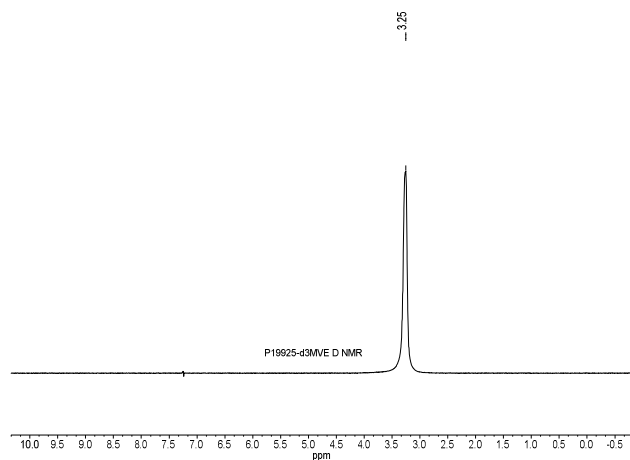
Characterization:

The polymer was characterized by ^1H NMR, D NMR and SEC.

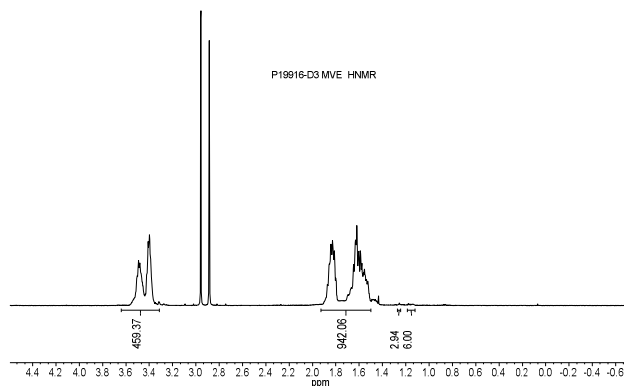
Solubility:

Deuterated (d3) Poly(methyl vinyl ether) is soluble in acetone, methanol., water

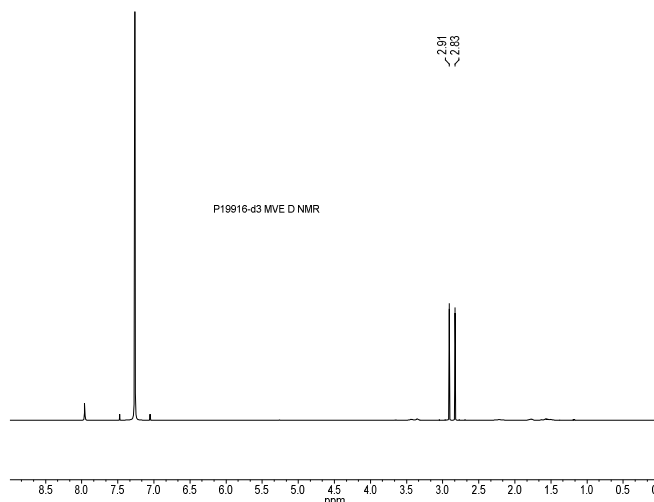
D NMR spectrum of polymer in CHCl_3 :



^1H NMR spectrum of the polymer :

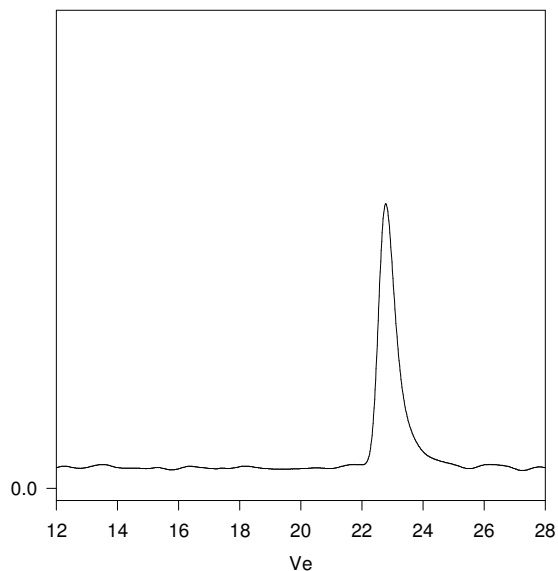


D NMR spectrum of the polymer:



SEC elugram of Homopolymer:

P19916-d3MVE



Size Exclusion Chromatography profile of d3- Poly methylvinyl ether:
 $M_n = 30,000$, $M_w = 34,500$, $PI = 1.15$

(v.K-01)