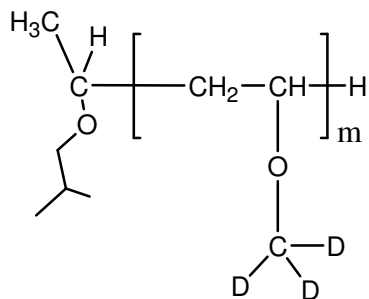


Sample Name:

Deuterated -d3(Poly(methyl vinyl ether))

Sample #: **P19925-d3MVE**

Structure:

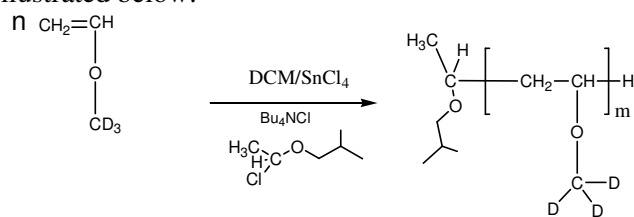


Composition:

$M_n \times 10^3$	PDI
10.3	1.15

Synthesis Procedure:

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



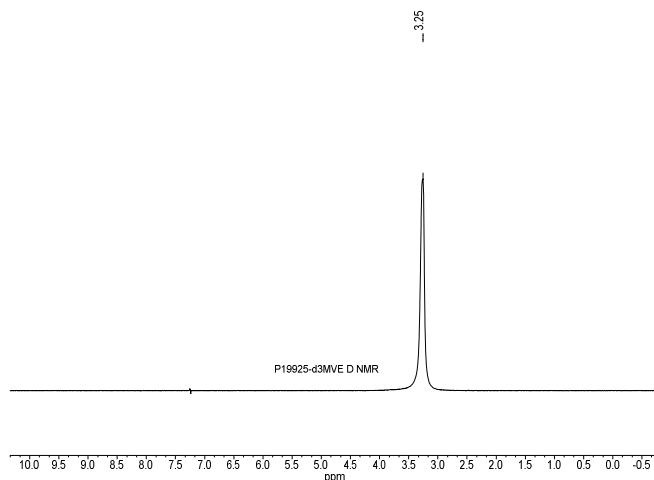
Characterization:

The polymer was characterized by D NMR and SEC analysis

Solubility:

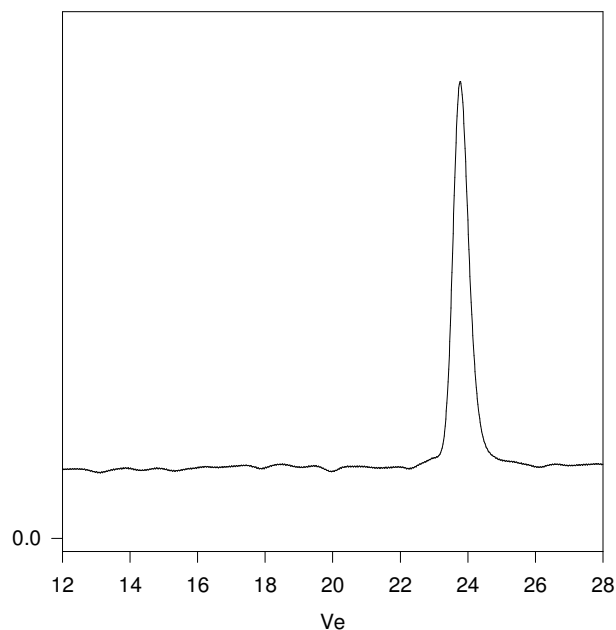
Deuterated (d₃) Poly(methyl vinyl ether) is soluble in acetone, methanol., water

D NMR spectrum in CHCl₃:



SEC elugram of Homopolymer:

P19925-d3PMVE



Size Exclusion Chromatography profile of Poly methylvinyl ether:
 $M_n = 10,500$, $M_w = 11,500$ $PI = 1.10$