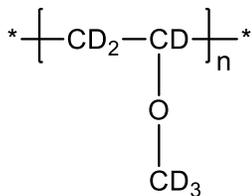


Sample Name:

**Deuterated poly(methyl vinyl ether)-d6**

Sample #: P42148A-d6MVE

**Structure:**



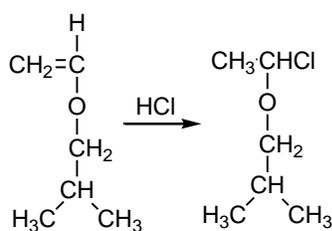
**Composition:**

$M_n \times 10^3$ (g/mol)	$M_w/M_n$
3.0	1.35

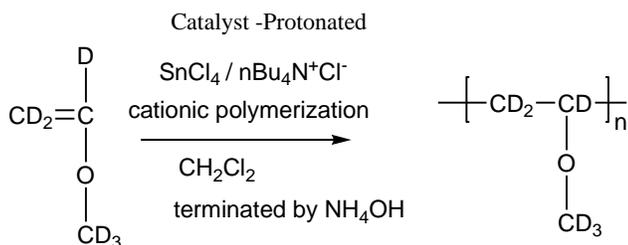
Glass transition temperature (T <sub>g</sub> ):	-30 °C
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**Synthesis procedure:**

Deuterated [d6] poly (methyl vinyl ether) was obtained by living cationic polymerization. The reaction scheme is shown below:



Catalyst Protonated



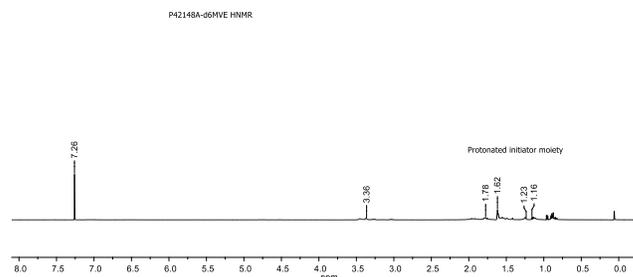
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>HNMR.

**Solubility:**

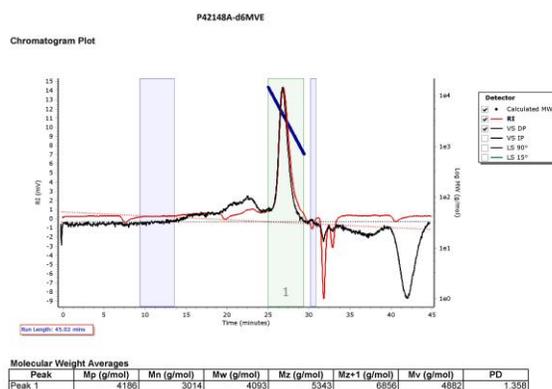
Deuterated poly (methyl vinyl ether) is soluble in Acetone and Methanol.

**HNMR spectrum of the sample in CdCl3:**



**SEC elugram of the Sample:**

Agilent GPC/SEC Software



**DSC thermogram (2<sup>nd</sup> heating scan, 10°C/min):**

