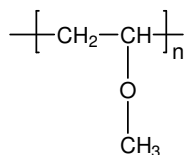


Sample Name: Poly(methyl vinyl ether)
Sample #: P2218 MVE

SEC of homopolymer:

Structure:



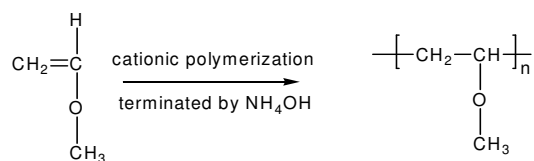
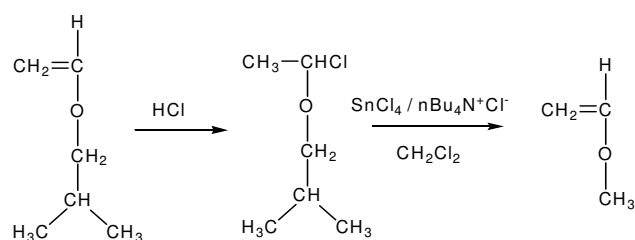
P2218-MVE

Composition:

$M_n \times 10^3$	PDI
22.1	1.09
T_g (°C)	-21

Synthesis Procedure:

Poly(methyl vinyl ether) is obtained by synthesis of the monomer followed by living cationic polymerization. The reaction scheme is illustrated below:



Characterization:

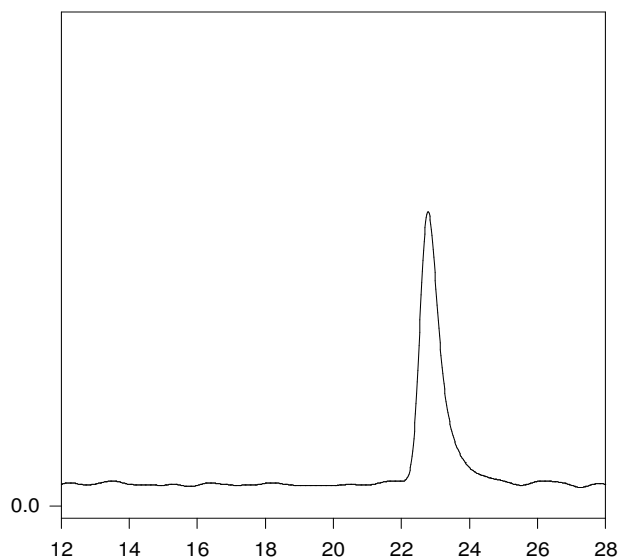
The molecular weight and polydispersity index (PDI) of poly(methyl vinyl ether) are obtained by size exclusion chromatography.

Thermal analysis:

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:

Poly(N methyl vinyl ether) is soluble in acetone, methanol.



Size Exclusion Chromatography profile of Poly methylvinyl ether:
 $M_n = 22100$, $M_w = 24000$, $PI = 1.09$

DSC thermogram for the polymer:

