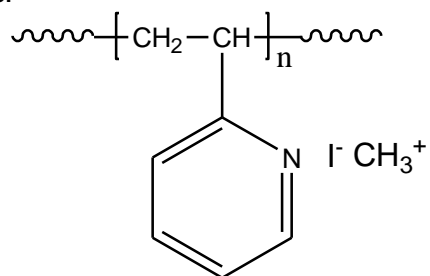


Sample Name: Poly(2-vinyl N-methyl pyridinium iodide)

Sample #: P1219-2VPQ

Structure:



Composition:

Mn x 10 ³	PDI
6.0	1.12

Synthesis Procedure:

Poly(2-vinyl N-methyl pyridinium iodide) is obtained by anionic polymerization of 2-vinyl pyridium followed by stirring with distilled CH₃I in an 8:2 mixture of THF / DMF and precipitation from hexanes.

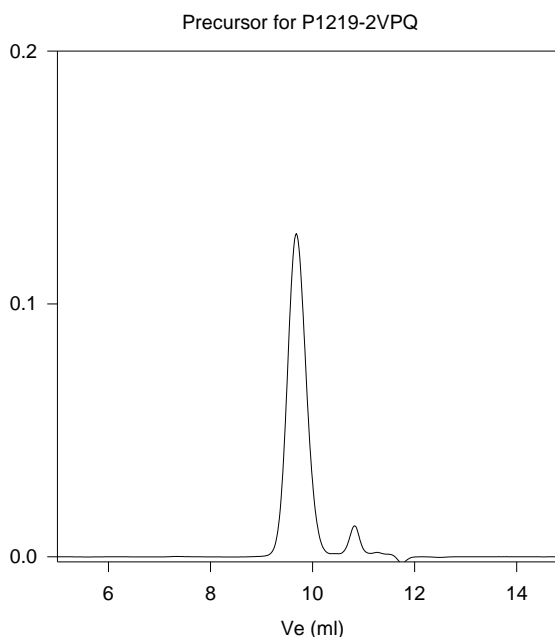
Characterization:

The molecular weight and polydispersity index (PDI) of poly(2-vinyl pyridium) are obtained by size exclusion chromatography. The quaternization is confirmed by FTIR with the disappearance of the -N= absorbance peak at 1412 cm⁻¹ and the degree of quaternization is generally over 8%.

Solubility:

Poly(2-vinyl N-methyl pyridinium iodide) is soluble in methanol.

SEC of Homopolymer:



Size exclusion chromatography of poly(2-vinylpyridine) in THF

Mn=3000, Mw=3360, Mz=3660, PI=1.12
After Quaternization : Mn 6,000 Mw/Mn: 1.12
degree of Quaternization ; 74%