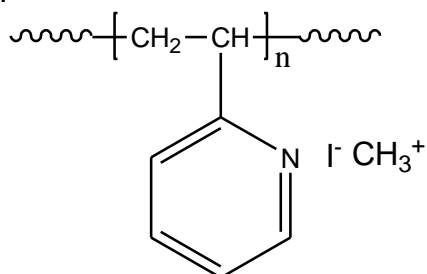


Sample Name: Poly(2-vinyl N-methyl
pyridinium iodide)

Sample #: P1218-2VPQ

Structure:



Composition:

Mn x 10 ³	PDI
116.5	1.06

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:

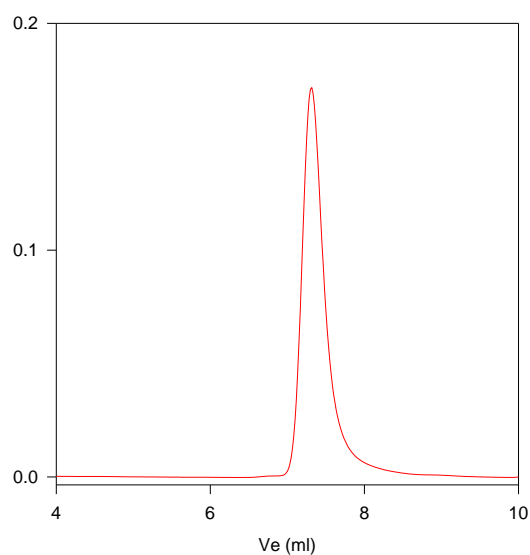
The molecular weight and polydispersity index (PDI) of poly(2-vinyl pyridium) are obtained by size exclusion chromatography. The quaternization is confirmed by FTIR with the disappearance of the -N= absorbance peak at 1412 cm⁻¹ and the degree of quaternization is generally over 8%.

Solubility:

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

SEC of Homopolymer:

P1218-2VPQ



Results of size exclusion chromatography analysed in DMF:

Mn=56000, Mw=59000, Mz=61000, PI=1.06
After quaternization with CH₃I
Mn 116,500 Mw/Mn 1.06