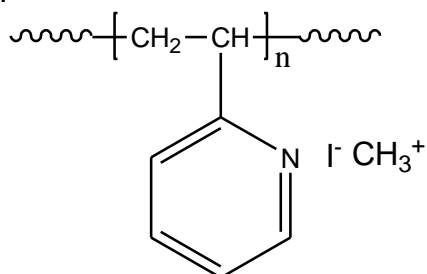


Sample Name: Poly(2-vinyl N-methyl
pyridinium iodide)

Sample #: P1380-2VPQ

Structure:



Composition:

$M_n \times 10^3$	PDI
18.0	1.09

Synthesis Procedure:

Poly(2-vinyl N-methyl pyridinium iodide) is obtained by anionic polymerization of 2-vinyl pyridium followed by stirring with distilled CH_3I in an 8:2 mixture of THF / DMF and precipitation from hexanes.

Characterization:

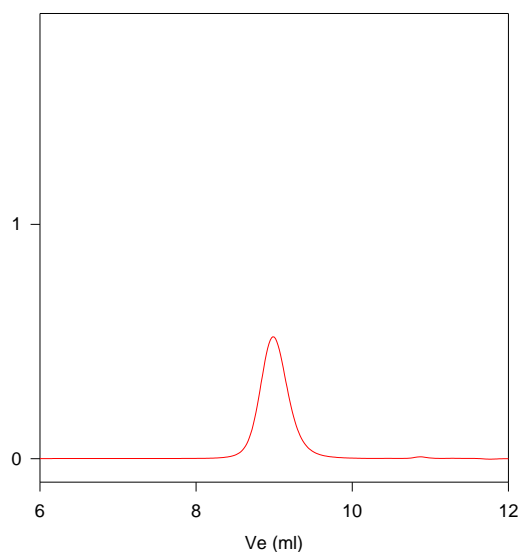
The molecular weight and polydispersity index (PDI) of poly(2-vinyl pyridium) are obtained by size exclusion chromatography. The quaternization is confirmed by FTIR with the disappearance of the $-N=$ absorbance peak at 1412 cm^{-1} and the degree of quaternization is generally over 8%.

Solubility:

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

SEC of Homopolymer:

P1380-2VPQ



Results of size exclusion chromatography analysed in DMF:

$M_n = 9100$, $M_w = 9900$, $M_z = 10700$, $PI = 1.09$

Precursor for the Sample # P1380-2VPQ

After Quaternization : M_n 18,000 M_w/M_n 1.09