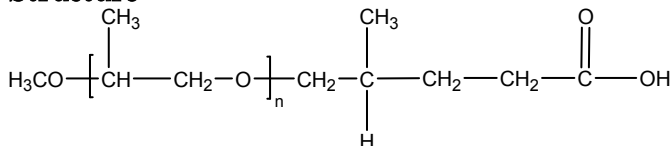


Sample Name:

α Methoxy ω - Carboxyl acid end functionalized
Poly(propylene glycol)

Sample #: P10800-POOCH₃COOH

Structure:



Composition:

Mn x 10 ³	PDI
2.5	1.25

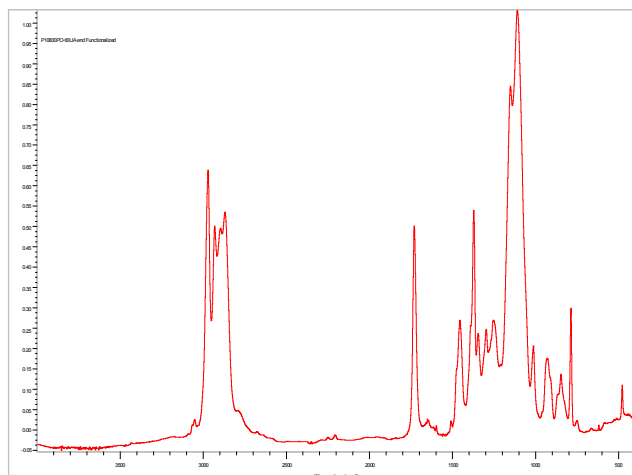
Characterization:

Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The end functionality was calculated from ¹H-NMR spectroscopy.

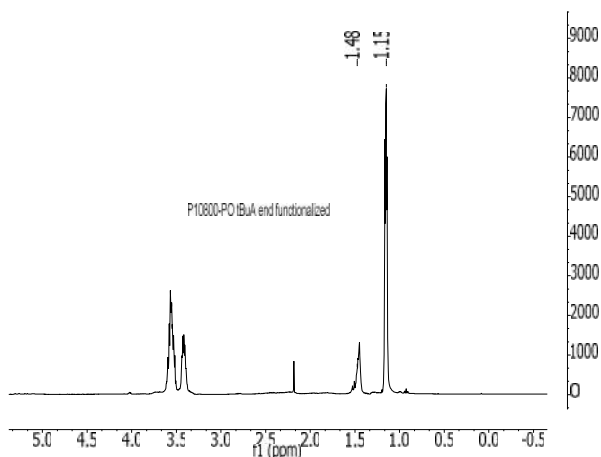
Solubility:

Polymer is soluble in CHCl₃, THF, and precipitated out from cold diethyl ether.

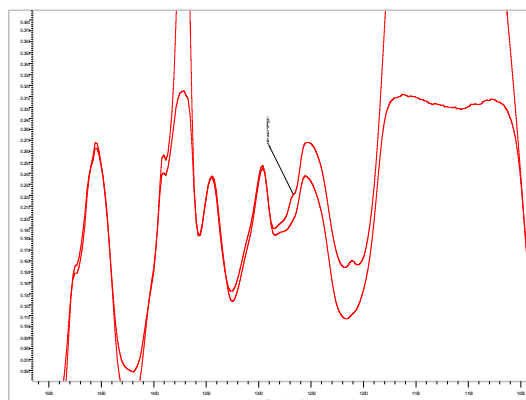
SEC of the polymer before reacting with COOH



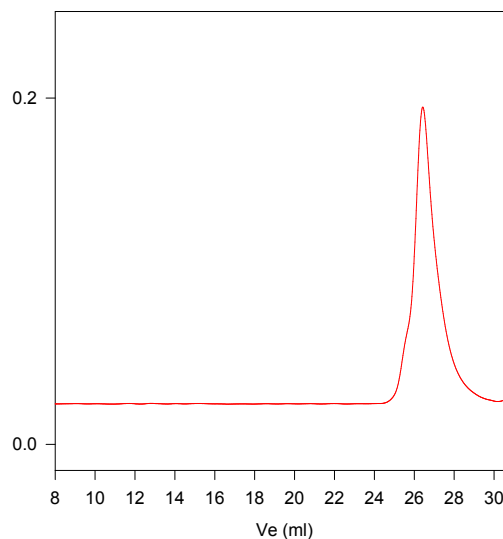
¹H NMR of the Product:



FTIR of the product show disappearance of tert-butyl ester and liberation of free COOH



**P10800-POOCH₃ COOH
Ester-form**



Size Exclusion Chromatography of Poly(propylene glycol) methylether

M_n =2500, M_w =3100, PI=1.25