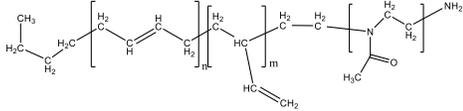


**Sample Name: Amino end functionalized Poly(butadiene-b-MethylOxazoline)**

**Sample #: P44244-BdMOXZ-NH2**  
(poly butadiene block rich in 1,2 microstructure)

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> Bd-b-MOXZ	Mw/Mn (PDI)	% 1,2 addition Butadiene
0.7-b-0.45	1.14	89
NH2 % >98%		
Dp: PB <sub>12</sub> -PMOXA <sub>5</sub> -NH2		

**Characterization:**

The polymer was characterized by HNMR, GPC, and FTIR.

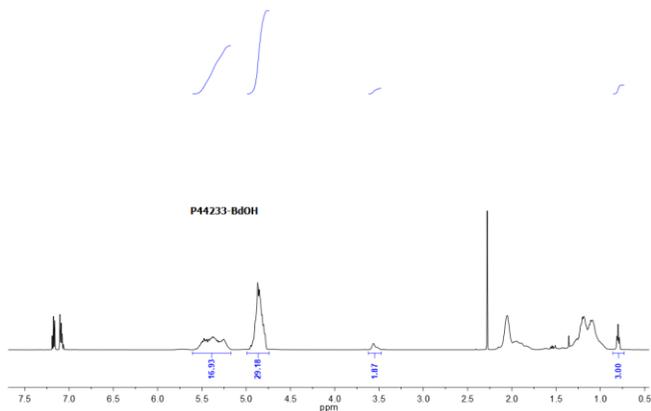
**Solubility:**

Amino end functionalized Poly(butadiene-b-Methyl oxazoline) is soluble in THF, CHCl<sub>3</sub>, and in methanol. The polymer has variable solubility in hexane, methanol, ethanol, and water depending on its composition.

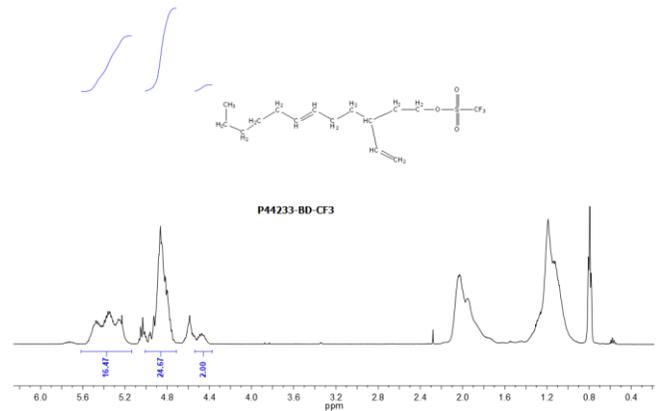
**Titration:**

the degree of functionality was confirmed by titration with HClO<sub>4</sub> using crystal violet as the indicator.

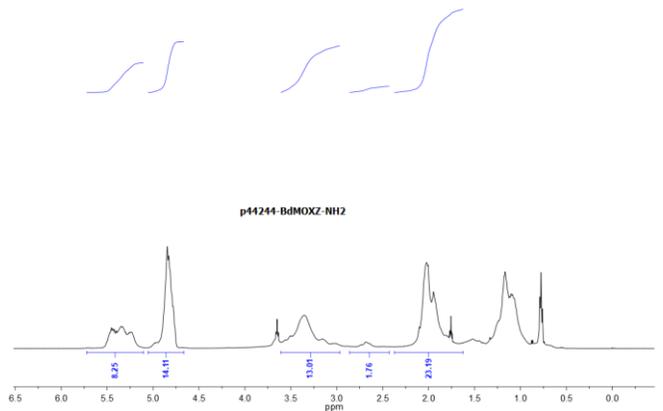
**<sup>1</sup>H NMR spectrum of the PBd-OH:**



**HNMR spectrum of PBd-b-MOXZ-CF3:**



**HNMR spectrum of PBD-b-MOXZ-NH2:**



**SEC profile of the BD-OH before converting to NH2 end functional group:**

