

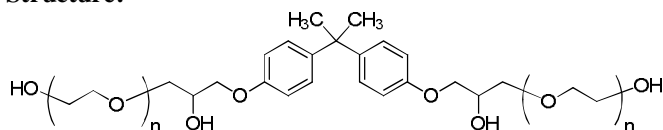
Sample name:

Poly(ethylene glycol), reacted with Bisphenol A diglycidyl ether

Other name: **Poly(ethylene glycol), containing (Bisphenol A-co-epichlorohydrin) linker inside the polymer chain**

Sample # **I-0003-EGBPECHran**

Structure:



CAS Number: 42617-82-3

Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
15.0	1.1

Physical properties:

Appearance:	flakes
Colour:	white
Melting point (max.):	$T_m = 63^\circ\text{C}$

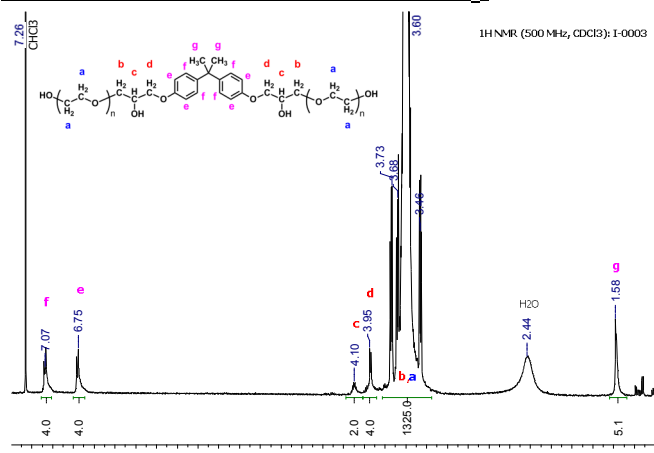
Characterization methods:

The molecular weight of the polymer was calculated from ^1H NMR data recorded on Bruker Avance III 500 NMR spectrometer. Chloroform-d was used as a solvent.

The polydispersity index of the copolymer was determined by size exclusion chromatography (SEC).

Thermal analysis was performed on TA Instruments Q100 differential scanning calorimeter (DSC) under a nitrogen atmosphere. The melting point (T_m) of the polymer was measured at a scan rate of $10^\circ\text{C}/\text{min}$ shortly after creating thermal history of the sample.

^1H NMR spectrum of copolymer in CDCl_3 :



DSC thermogram (2nd heating scan, $10^\circ\text{C}/\text{min}$):

