

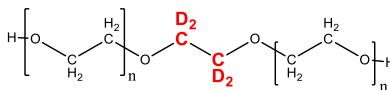
Product Profile

Identification

Product Name: Partially deuterated Poly(ethylene glycol-d4), (d4 ethylene glycol unit as initiator)

Sample #: P45624-F2-dPEO

Structure:



Composition:

$M_n \times 10^3$	Mw/Mn (PDI)
0.8	1.09

Method of Synthesis: By ionic process

Solubility in different solvents

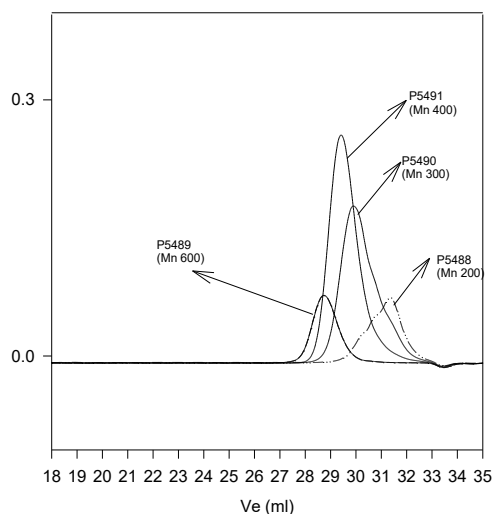
THF	√	Alcohol	√
CHCl ₃	√	Acetone	√

Purification of Polymer: By Column chromatography

Validation of Architecture:

A. Gel Permeation Chromatography (GPC), SEC- Profile

SEC Profile for PEG Oligomers



Size exclusion chromatography of poly(ethylene glycol):

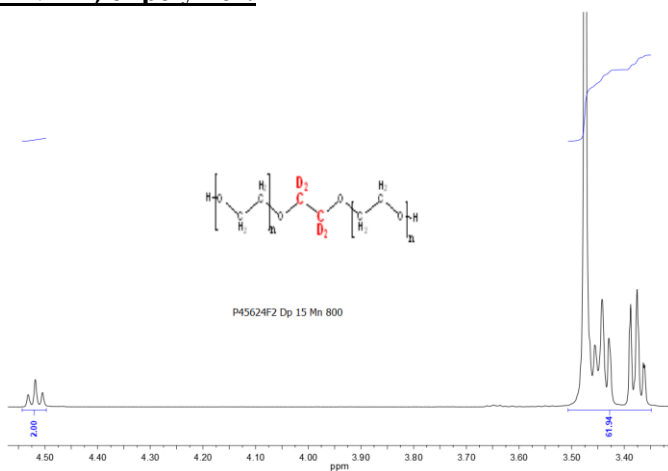
Lot# P 5488-EG2OH Mn=200, Mw=240, Mw/Mn = 1.20

Lot# P 5490-EG2OH Mn 300 Mw: 360 Mw/Mn = 1.20

Lot# P 5491-EG2OH Mn 400 Mw: 480 Mw/Mn = 1.2

Lot# P 5489-EG2OH Mn 600 Mw: 690 Mw/Mn 1.15

B. H¹NMR (HNMR) of polymer:



H²NMR (HNMR) of polymer

