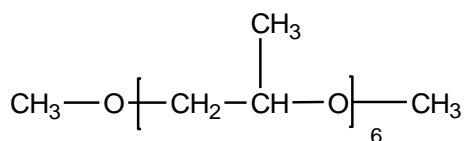


Sample Name:
Hexa propylene glycol dimethyl ether
or
 α,ω - di methoxy terminated-polypropylene
oxide

Sample #: **P5799-PO2OCH3**

Structure:



Composition:

Mn x 10 ³	PDI
0.8	1.10

Synthesis Procedure:

Hexa propylene glycol dimethyl ether is synthesized by anionic polymerization of propylene oxide :

Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Purification:

Purification of the obtained polymer was carried out rigorously as follows to ensure the removal of the catalyst side product:

1. Polymer was stirred in de-ionized distilled water to remove the any soluble organic catalyst side product.
2. Polymer extracted from water with dichloromethane.
3. Polymer solution in dichloromethane was dried over anhydrous sodium sulfate.
4. Solution filtered and then passed through a column packed with basic Al₂O₃.
5. Solution concentrated on rota-evaporator
6. Dried under vacuum for 48h at 38 oC.

HNMR of the Product:

