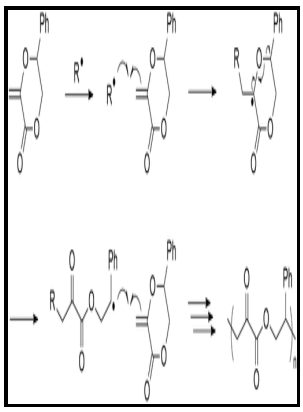
Ring-opening polymerization

M. Dekker - Ring opening polymerization of macrocyclic oligoesters derived from renewable sources



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Monomers.
Cyclic compounds.Ring-opening polymerization
-
Kinetics and mechanisms of polymerization -- v. 2.Ring-opening polymerization
Notes: Includes bibliographical references.
This edition was published in 1969

Tags: #Ring #opening #polymerization #of #macrocyclic #oligoesters #derived #from #renewable #sources

ROP

Key architectures obtained through NCA ROP or in combination with other polymerization methods are reviewed, as these play an important role in the wide range of applications towards which polypeptides have been applied. These data agreed with that of 2 at 155. The stereochemistry and mechanism of reversible polymerization of 2,2-disubstituted 1,3-propanediol carbonates.

The anionic ring

An ionic type is normally much higher in reactivity than a covalent type. In the polymerization of oxirane EO , predominantly six-membered cyclic dimer 1,4-dioxane is formed. Chain transfer and chain termination do not always happen in a chain-growth polymerization.

2.8: Ring

The polymerization in diglyme gave no polymeric material at either 60 or 150 °C runs 1 and 2 , whereas polymerization in THF produced the petroleum-ether-insoluble material at 44% yield. Free radicals can be initiated by many methods such as heating, redox reactions, ultraviolet radiation, high energy irradiation, electrolysis, sonication, and plasma. In the polymerization of oxiranes or oxetanes, the kinetic factor does not disfavor backbiting and cyclic oligomers are formed parallel to the formation of linear polymer.

2.8: Ring

Polymerization The following describes a typical polymerization procedure.

ROP

Macromolecular design in conjunction with rational monomer composition can direct architecture, self-assembly and chemical behavior, ultimately guiding the choice of appropriate application within the biomedical field. Low-molar-mass by-product will be formed during polymerization.

Ring Opening Metathesis

These molecular weight distributions are so narrow the polymers are said to be monodisperse. The residue was recrystallized from n-hexane to give colorless needles.

2.8: Ring

Due to efficient transacetalization coupled with reversibility of propagation step, this is achieved irrespective of propagation kinetics.

Ring opening polymerization of α

Chain transfer to polymer may be detrimental, leading to the formation of cyclic fractions or precluding the formation of block copolymers, but it may also be beneficial. Caprolactone and other ROP monomers are different from the monomers used in condensation polymerization in a couple of ways.

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