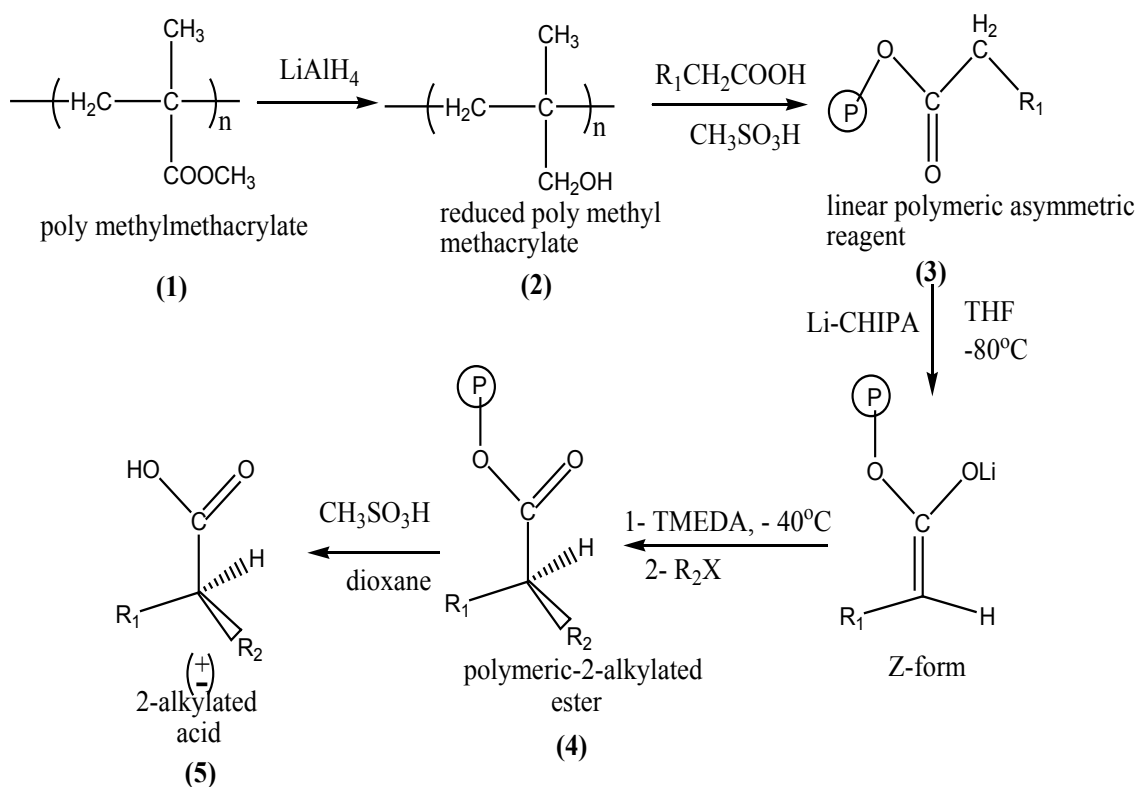


Synthesis of optically pure α -alkylated acids and their biological applications

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Biological activity is most often associated with the interaction of a particular stereoisomer with a biological receptor. This distinction between stereoisomers occurs due to the asymmetric nature of the environment around typical receptors. The present work is the synthesis of enantiomerically pure 2-ethyloctadecanoic acid and 2-methylbutanoic acid based on poly methyl methacrylate resins depending on different factors such as effect of temperature, order of addition of alkyl group and solvent. Also, some of these products are screened for their antifungal and antibacterial activities against Gram-positive and Gram-negative bacteria.



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