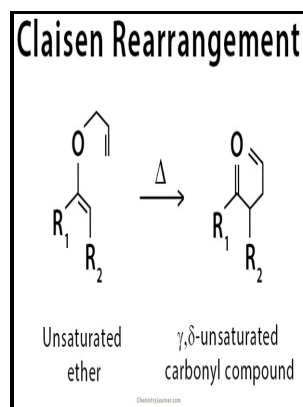


Claisen rearrangement - methods and applications

Wiley-VCH - The Tandem Claisen Rearrangement in Organic Synthesis



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Claisen rearrangement
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Hiersemann M., Nubbemeyer U. (ed.) The Claisen Rearrangement. Methods and Applications [PDF]

Halogen substituted ketenes R1, R2 are often used in this reaction for their high electrophilicity. Actually, the vast majority of these sigmatropic reactions occur when the boron-containing group is being used as a reagent in the formation of carbon carbon bonds, such as in the aldol reaction, or during the allylation of carbonyl compounds. The effect of lignin blending with epoxy resins is strongly affected by the type of lignin used.

The Tandem Claisen Rearrangement in Organic Synthesis

The literature coverage hardly extends beyond 2004.

Application of Claisen Rearrangement and Olefin Metathesis in Organic Synthesis

On the other hand, lignin as a macromonomer has been introduced in phenol-formaldehyde and epoxy resins, as well as in polyurethane and natural polyesters formulations. Applications of the method for the synthesis of heterocyclic and natural compounds are surveyed.

The Tandem Claisen Rearrangement in Organic Synthesis

The interesting mechanistic considerations in the examples that are described underscore the importance of the modern catalytic possibilities of the Claisen rearrangement, which was formerly usually carried out as a thermal reaction. Edited by Martin Hiersemann and Udo Hubbemeyer.

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