

Special Issue

The Influence of Phase Transfer Catalysis (PTC) in the Synthesis of Bioactive Compounds

Message from the Guest Editors

A wide variety of reactions can be carried out under PTC conditions, such as alkylation, oxidation, reduction, elimination, hydrolysis, aliphatic and aromatic substitution, multiple bond addition, carbonyl addition, and many others. Additionally, it is possible to use PTC conditions both in classical methods of synthesis and in the presence of microwave radiation, ultrasounds or in mechanochemistry. The obtained products, often even unpurified, are characterized by high purity, which is extremely important in the case of bioactive compounds. All these advantages of the PTC method mean that it is now used more and more often in the synthesis of bioactive compounds. This Special Issue aims to cover the most recent progress and advances in the field of synthesis of bioactive compounds under phase transfer catalysis conditions. This includes both reactions using the PTC method in one or more steps, aimed at the synthesis of new bioactive compounds, and processes aimed at the development of new alternative methods of known drugs.

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