



Chemical Reactions in the Ultrasonic Process in Solution Phases (Persian Edition)

Nasim Sasanian

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The book discusses chemical reactions in the ultrasonic process in solution phases. In the science of chemistry, the study of sonochemistry is related to the knowledge of the effect of acoustic waves and the features of wave on the sonochemistry systems. The chemical effects of ultrasound are not attained based on the direct interaction with different varieties of molecules. It should be mentioned that researches approve that the effect of ultrasound in chemical processes seems not to be the result of direct coupling of acoustic field with the related chemical material in molecular dimension. But it seems to be the result of acoustic cavitations. Cavitation contains constructing, forming and activation of bubbles in liquid. The strongest ultrasound with lower frequency is applied in a liquid system. It is possible that through those cavitation which are produced acoustically, obtain chemical changes with strong ultrasound domain between (20-100) KHZ. In this book, we go through the analysis of oxidation reactions based on ultrasound process in liquid phase. The applied frequency, the considered watt for application, PH, energy, temperature, and the effect of solvents are among those parameters which are considered and studied experimentally in this book. CCl₄, CH₂Cl₂, CHCl₃ are used to produce really active radicals, also Hypochlor to help oxidation process to go forth. The obtained result is considered as emphasis on oxidation process of changing Aldehyde to Benzoic acid.

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