

# Green Chemistry : A Tool for Sustainable Development

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**Abstract:** Green chemistry which was initiated about three decades has attracted lot of attention. It is a multidisciplinary field which covers areas such as synthesis, solvents, catalysis, raw materials, products, efficient methods and many more. In the current globalized world green chemistry is becoming the most potent tool, the strength towards the sustainable and overall development. It is environmentally benign chemistry which reduces or eliminates the use and generation of hazardous chemicals and substances. The basic principle of green chemistry on which it works is the minimization of risks, hazards and pollution and maximizing the efficiency by maintaining the cost and potential exposure. It includes all parts of chemistry and other disciplines that aims to minimize the negative effects and maximize the efficiency. There are many innovations in green chemistry such as synthesis, renewable products, catalysts, disposal of wastes, design of nontoxic chemicals and components, new formulations and many more. Therefore it is imperative to acknowledge the importance and values of this branch of chemistry to future generations. This paper addresses the importance, innovation and application of green chemistry for a sustainable development.

**Keywords:** Green Chemistry, Multidisciplinary, Sustainable Development, Design of Safer Chemicals, High Efficiency

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