Room Temperature Organic Synthesis

Description: Filling a gap in the scientific literature, Room Temperature Organic Synthesis is unique in its authoritative, thorough, and applied coverage of a wide variety of "green" organic synthetic methodologies. The book describes practical, feasible protocols for room temperature reactions to produce carbon-carbon and carbon-heteroatom bond formations including aliphatic, aromatic, alicyclic, heterocycles, and more. Consistently organized for easy access, each selected reaction is discussed in a very compact and structured manner including: reaction type, reaction condition, reaction strategy, catalyst, keywords, general reaction scheme, mechanism (in selected cases), representative entries, experimental procedure, characterization data of representative entries, and references. This book will be a valuable resource for synthetic organic, natural products, medicinal, and biochemists as well as those working in the pharmaceutical and agrochemical industry.

- Includes more than 300 protocols for a green approach to organic synthesis
- Provides specific detail about experimental conditions
- Increases efficiency in the laboratory by eliminating time-consuming literature searches

Contents:

Carbon
- Carbon Bond Forming Reactions at Room Temperature
- Nitrogen Bond Forming Reactions at Room Temperature
- Oxygen Bond Forming Reactions at Room Temperature
- Sulfur Bond Forming Reactions at Room Temperature
- Phosphorus Bond Forming Reactions at Room Temperature
- Halogen Bond Forming Reactions at Room Temperature
- Fluorine Bond Forming Reactions
- Iodine Bond Forming Reactions
- Boron Bond Forming Reactions at Room Temperature
- Miscellaneous Bond Forming Reactions at Room Temperature

Nitrogen
- Hydrogen Bond Forming Reaction

Oxygen
- Silicon Bond Forming Reactions
- Sulfur
- Nitrogen Bond Forming Reaction
- Sulfur
- Oxygen Bond Forming Reactions
- Sulfur
- Sulfur Bond Forming Reactions

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