

The book was found

Organic Reactions, Volume 81



Synopsis

Volume 81 represents the confluence of two rare and important phenomena for chapters in the Organic Reactions series, namely, it is a single-chapter volume, and it contains a name reaction coauthored by the inventor. Of the 261 chapters published thus far, only seven have been of sufficient impact to appear as single-chapter volumes. The single chapter in this volume entitled "The Krapcho Dealkoxycarbonylation Reaction of Esters with α -Electron-Withdrawing Substituents" has been coauthored by A. Paul Krapcho together with Organic Reactions' long-time contributor Engelbert Ciganek. The "Krapcho Decarboxylation," as it is known in common parlance, is an extraordinarily useful alternative to the classical hydrolysis-decarboxylation of esters bearing α -electron-withdrawing substituents. This process replaces the strongly basic or acidic conditions normally required for ester saponification with the neutral cleavage of the ester group by a BAC2 mechanism through the combination of water and a dipolar aprotic solvent at high temperature. However, another popular variant involves the use of inorganic salts such as lithium chloride, sodium iodide, or sodium cyanide in a dipolar aprotic solvent which can open a second mechanistic pathway (dependent upon the ester) through BAL2 cleavage. Drs. Krapcho and Ciganek expertly outline the broad substrate scope of this reaction and identify the preferred conditions for various substrate classes. The 371 pages of tables containing all known examples of this simple but important transformation, together with the 1,908 references cited in this Chapter, are testimony to the synthetic usefulness of the Krapcho reaction.

Book Information

Hardcover: 584 pages

Publisher: Wiley; 1 edition (July 22, 2013)

Language: English

ISBN-10: 1118674251

ISBN-13: 978-1118674253

Product Dimensions: 6.3 x 1.3 x 9.3 inches

Shipping Weight: 1.9 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #6,110,243 in Books (See Top 100 in Books) #82 in Books > Science & Math > Chemistry > Organic > Reactions #5642 in Books > Science & Math > Chemistry > Physical & Theoretical #16706 in Books > Textbooks > Science & Mathematics > Chemistry

[Download to continue reading...](#)

Concise Organic Chemistry: Aromatic and Carbonyl Reactions, Oxidation-Reduction Reactions, Biomolecules, Natural Product and Heterocyclic Compounds Cycloaddition Reactions in Organic Synthesis, Volume 8 (Tetrahedron Organic Chemistry) Ace Organic Chemistry I: The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Organic Body Care Recipes Box Set: Organic Body Scrubs, Organic Lip Balms, Organic Body Butter, And Natural Skin Care Recipes Organic Reactions, Volume 72 Volume 40, Organic Reactions Organic Reactions, Volume 46 Organic Reactions, Volume 47 Organic Reactions (Volume 36) Volume 38, Organic Reactions Organic Reactions, Volume 63 Organic Reactions, Volume 88 Organic Reactions, Volume 84 Organic Reactions, Volume 61 Organic Reactions (Volume 59) Organic Reactions, Volume 71 Organic Reactions, Volume 81 Organic Reactions, Volume 66 Organic Reactions, Volume 73: Allylboration of Carbonyl Compounds Organic Reactions (Volume 53)

[Dmca](#)