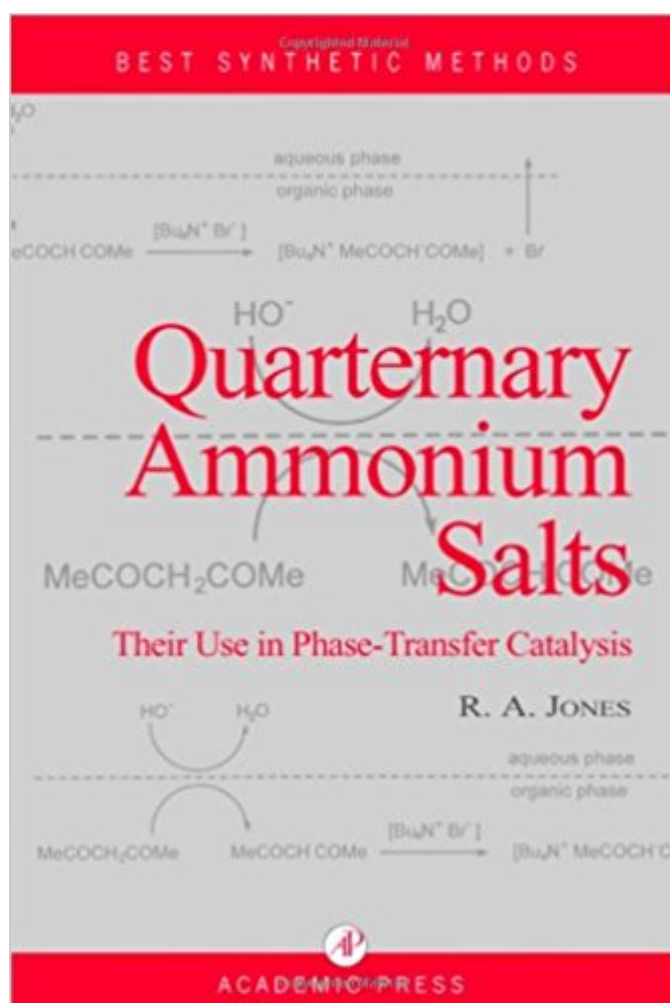


The book was found

Quaternary Ammonium Salts: Their Use In Phase-Transfer Catalysis (Best Synthetic Methods)



Synopsis

This text provides experimental methods for a wide range of organic reactions, systematically arranged according to reaction type, and describes the advantages and limitations of the procedures. Traditional methods to speed up organic reactions involve energy-consuming processes and costly and environmentally "unfriendly" solvents. Additionally, isolation of the product requires energy and time-consuming purification processes. A simple solution, especially for reactions involving anionic reactants, is the use of phase-transfer catalysis. Quaternary ammonium cations have the ability to transfer the anionic reactants as non-solvated ion-pairs from aqueous media into organic media. The resultant effect is to increase the rate of the organic reaction by enhancing the reactivity of the anionic species and increasing the encounter rate with the organic substrate. Side reactions are frequently eliminated so that the overall yield of the desired product is increased. Quaternary Ammonium Salts presents procedures for reducing reaction times and the need for extreme conditions, which are frequently encountered under standard reaction procedures. This is the only book to be published on quaternary ammonium salts. Best Synthetic Methods volumes allow the practicing synthetic chemist to choose between all the alternatives and assess their real advantages and limitations. Each volume of the series deals with a particular topic from a practical point of view, giving detailed examples and precise experimental directions and hints. With the emphasis on laboratory use, these volumes represent a comprehensive and practical guide to modern synthetic organic chemistry.

Book Information

Series: Best Synthetic Methods

Hardcover: 565 pages

Publisher: Academic Press; 1st edition (January 24, 2001)

Language: English

ISBN-10: 012389171X

ISBN-13: 978-0123891716

Product Dimensions: 9.3 x 6.2 x 1.5 inches

Shipping Weight: 2.4 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #6,407,526 in Books (See Top 100 in Books) #70 in Books > Science & Math > Chemistry > Organic > Reactions #3286 in Books > Textbooks > Medicine & Health Sciences > Allied Health Services > Pharmacy #5001 in Books > Medical Books >

Customer Reviews

R. Alan Jones is a Senior Fellow at the University of East Anglia, where he held the position of Dean of the School of Chemical Sciences until 1997. He spent a period on the Faculty at the University of Adelaide, holds a Sc.D. and Ph.D. from the University of Cambridge and a degree from the University of Oxford.

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

Quaternary Ammonium Salts: Their Use in Phase-Transfer Catalysis (Best Synthetic Methods)
Phase-Transfer Catalysis: Fundamentals, Applications, and Industrial Perspectives Psoriasis -
Treatment with Homeopathy, Schuessler salts (homeopathic cell salts) and Acupressure: A
homeopathic, naturopathic and biochemical guide Amazing Things About Dead Sea Salts: Benefits
of Dead Sea Bath Salts For Psoriasis, Eczema, Relaxation Muscle Soreness Detoxification etc
PeriAnesthesia Nursing Core Curriculum: Preprocedure, Phase I and Phase II PACU Nursing, 2e
PeriAnesthesia Nursing Core Curriculum: Preoperative, Phase I and Phase II PACU Nursing, 1e
PeriAnesthesia Nursing Core Curriculum: Preprocedure, Phase I and Phase II PACU Nursing, 3e
Imidazole and Benzimidazole Synthesis (Best Synthetic Methods) Borane Reagents (Best Synthetic
Methods) Hypervalent Iodine in Organic Synthesis (Best Synthetic Methods) Electroorganic
Synthesis (Best Synthetic Methods) Art Nouveau Alphabet Iron-On Transfer Patterns: 13 Authentic
Art Nouveau Fonts (Dover Iron-On Transfer Patterns) Elegant Medieval Iron-On Transfer Patterns
(Dover Iron-On Transfer Patterns) Simulating Enzyme Reactivity: Computational Methods in
Enzyme Catalysis (Theoretical and Computational Chemistry Series) Quaternary Coral Reef
Systems, Volume 5: History, development processes and controlling factors (Developments in
Marine Geology) Paleoclimatology, Third Edition: Reconstructing Climates of the Quaternary
Quaternary Paleozoology in the Northern Hemisphere (Illinois State Museum scientific papers)
Quaternary Extinctions: A Prehistoric Revolution The Hospice Companion: Best Practices for
Interdisciplinary Assessment and Care of Common Problems During the Last Phase of Life Master
gemcutting tips: A comprehensive collection of proven lapidary and gemcutting tips and methods
that are of immediate and practical use to ... and carvers regardless of their experience

[Contact Us](#)

[DMCA](#)

[Privacy](#)

