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| Nota di contenuto | Phosphorus Ylides; Contents; 1 Introduction; 1.1 Historiography; 1.2 Types of Phosphorus Ylides and Structure of Book; 1.3 Nornenclature; References; 2 C,P-Carbo-Substituted Phosphorus Ylides; 2.1 Introduction; 2.1.1 Types of C,P-Carbo-Substituted Posphorus Ylides; 2.2 Preparation; 2.2.1 Synthesis from Phosphonium Salts; 2.2.1.1 Dehydrohalogenation of Phosphonium Salts; 2.2.1.2 Synthesis from a-Silyl and a-Stannyl-Substituted Phosphonium Salts; 2.2.1.3 Preparation in Heterogeneous Media; 2.2.1.4 Electrochemical Method; 2.2.1.5 Ultrasound; 2.2.2 Modification of Simple Phosphorus Ylides 2.2.2.1 Acylation2.2.2.2 Alkylation; 2.2.2.3 Arylation; 2.2.3 Addition of Tertiary Phosphines to Compounds Containing Multiple Bonds; 2.2.3.1 Alkenes; 2.2.3.2 Alkynes; 2.2.4 Reaction of Tetracoordinatc Phosphorus Compounds with Multiple-Bonded Compounds; 2.2.5 Modification of the Side-Chain; 2.2.6 Miscellaneous Methods; 2.2.6.1 Formation from |

Carbenes; 2.2.6.2 Phosphorylation of Cornpounds with an Active Methylene Group; 2.3 Chemical Properties; 2.3.1 Stability; 2.3.2 Transformations Accompanied by Cleavage of the P=C Bond; 2.3.2.1 Thermolysis; 2.3.2.2 Photolysis
2.3.2.3 Oxidation-Industrial Synthesis of B-Carotene2.3.2.4 Reactions with Elemental Sulfur and Selenium; 2.3.2.5 Reduction; 2.3.3.6 Hydrolysis of Ylides; 2.3.2.7 Applications in Organic Synthesis; 2.3.3 Substitution at the Ylidic Carbon Atom; 2.3.3.1 Reactions with Alkylation Reagents; 2.3.3.2 Reactions with Acylation Reagents; 2.3.3.3 Examples in Natural Compound Synthesis; 2.3.4 Reactions with Compounds Containing Multiple Bonds; 2.3.4.1 Compounds Containing Carbon-Carbon Multiple Bonds; 2.3.4.2 Reactions with Compounds Containing Carbon-Heteroatom or Heteroatom-Heteroatom Multiple Bonds
2.3.5 Reactions with 1,3-Dipolar Compounds. Synthesis of Heterocyclic Systems2.3.5.1 Reaction with Aziridines and Azomethine Ylides-Synthesis of Pyrrolines; 2.3.5.2 Oxides of Azomethines; 2.3.5.3 Azides-Synthesis of 1,2, 3-Triazoles; 2.3.5.4 Reaction with Nitrile Oxides. Nitrilimines and Nitrilylides - Synthesis of Pyrazoles and Isoxazoles; References; 3 Cumulene Ylides; 3.1 Introduction; 3.1.1 The Structure of Phosphacumulene Ylides; 3.2 Phosphaketene Ylides; 3.2.1 Chemical Properties; 3.2.2 Dimerization; 3.2.3 Addition of Compounds Bearing a Mobile Hydrogen Atom
3.2.4 [2+2] Cycloaddition Reactions3.2.5 1,3-Dipolar Addition Reactions; 3.2.6 [4+2]-Cycloaddition Reactions; 3.2.7 Miscellaneous Reactions; 3.3 Phosphaketeneacetal Ylides; 3.4 Phosphaallene Ylides and Phosphacumulene Ylides; 3.5 Application in Natural Product Synthesis; 3.6 Carbodiphophoranes; 3.6.1 Structural Studies of Carbodiphosphoranes; References; 4 C-Heterosubstituted Phosphorus Ylides; 4.1 Introduction; 4.2 Phosphorus Ylides Substituted on the a-Carbon by Atoms of Element Groups I-IV; 4.2.1 Ylides Containing Group 1A and IIA Elements; 4.2.2 Ylides Containing Group IIIA Elements 4.2.3 Ylides Containing Group IVA Elements

Sommario/riassunto

When Wittig first developed and described phosphorus ylides, nobody could have imagined how useful and versatile this class of compounds could be. This book provides a comprehensive and up-to-date compilation of the chemistry and applications of phosphorus ylides in organic synthesis. The ylides are discussed as reagents in the synthesis of a broad range of substances, amongst them olefins, acetylenes, cyclic and heterocyclic compounds, in such naturally occurring compounds as pheromones, steroids and carotenoids, and pharmaceutically and biologically active compounds such as antibiotics and p

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| Sommario/riassunto | This book investigates the development of psychological well-being in the workplace, offering fresh perspectives on work-related stress and psychosocial risks by critically examining conceptual frameworks and techniques. It evaluates the effectiveness and consequences of various organizational measures intended to enhance employee well-being. The book explores the cultural aspects of distress and well-being across different countries and emphasizes the significant role of workplace organizations in fostering well-being. It is authored by Philippe Sarnin, Dongo Rémi Kouabenan, Marc-Éric Bobillier Chaumon, Michel Dubois, and Jacqueline, all of whom are professors of work psychology at various French universities. |