
*COMPREHENSIVE
ORGANIC
FUNCTIONAL GROUP
TRANSFORMATIONS*

EDITORS-IN-CHIEF
ALAN R. KATRITZKY, FRS
OTTO METH-COHN
CHARLES W. REES, FRS

*Volume 7
Indexes*

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Katritzky, Stanley M. Roberts, Otto Meth-Cohn, Charles Wayne Rees, 1995 This Volume covers the formation of carbon carbon single double and triple bonds by substitution and addition reactions as well as by various rearrangements The formation of carbon carbon multiple bonds by elimination and condensation procedures is fully documented In addition the synthesis of carbon hydrogen bonds principally by substitution and addition reactions is featured as is the preparation of a wide variety of carbon centred anions cations and radicals **Comprehensive Organic Transformations** Richard C. Larock, 1999-11-02

Comprehensive Organic Functional Group Transformations Alan R. Katritzky, Thomas L. Gilchrist, Otto Meth-Cohn, Charles Wayne Rees, 2003-03-21 A vast range of different functional groups is potentially available from the attachment of three or four heteroatoms to carbon Some of these are abundantly represented in the literature others are rare and many have yet to be described The aim of this volume is to describe the synthesis of examples of known functional groups and to highlight those that are little known or unknown All possible combinations of heteroatoms have been surveyed with the exception of complexes in which carbon atoms are bonded only to transition elements The material is organised in four parts tetracoordinated carbon atoms bearing three attached heteroatoms are covered in Part I and those bearing four heteroatoms in Part II the synthesis of tricoordinated carbon atoms with three attached heteroatoms is described in Part III stabilized radicals and carbocations with three attached heteroatoms are covered briefly in Part IV *Comprehensive Organic Functional Group Transformations* Alan R. Katritzky, Gordon W. Kirby, Otto Meth-Cohn, Charles Wayne Rees, 2003-03-21 In this Volume containing 24 chapters devoted to carbon attached by single bonds to two heteroatoms the reader will find several chapters reviewing the synthesis of familiar functional groups notably acetals dithioacetals amins and the various mixed species The derivatives with tetracoordinated saturated carbon are described in Part I and those eg ketene acetals of tricoordinated carbon in Part II However the treatment is comprehensive and the authors have uncovered much fascinating chemistry concerning less familiar groups including some like geminal halohydrins halo amines and diols that are often unstable Again a surprisingly large number of compounds having two metals attached to the same carbon have been located in the literature and the abundance of phosphorus derivatives eg those with geminal nitrogen functions reflects their importance as biologically active species and as intermediates in synthesis Part III consists of a single short chapter describing dicoordinate carbon carbenes and examples of carbon cations anions and radicals Here the treatment is deliberately selective since throughout the work as a whole emphasis is placed on the synthesis of isolable species rather than the transient intermediates of organic reactions Comprehensive Organic Functional Group Transformations: Synthesis: carbon with one heteroatom attached by a single bond Alan R. Katritzky, Otto Meth-Cohn, Charles Wayne Rees, 1995-12-29 **Comprehensive Organic Functional Group Transformations: Synthesis: carbon with one**

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