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Altri autori (Persone)	HeysJ. R (J. Richard) MoeniusThomas
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preparation of Compounds Labeled with Tritium and Carbon-14; Contents; Preface; Glossary; Author Biographies; 1 Introduction; 1.1 Physical Properties of Tritium and Carbon-14; 1.2 Purification; 1.3 Analysis; 1.3.1 Chemical Identity; 1.3.2 Chemical (and Enantiomeric) Purity; 1.3.3 Radiochemical (and Radionuclidic) Purity; 1.3.4 Specific Activity; 1.3.5 Position of Label; 1.4 Stability and Storage of Compounds Labeled with Tritium or Carbon-14; 1.5 Specialist Techniques and Equipment; References; 2 Strategies for Target Preparation; 2.1 Formulating Target Specifications 2.2 Planning Radiotracer Preparations2.2.1 The Construction Strategy; 2.2.2 Reconstitution Strategies; 2.2.3 The Derivatization Strategy; 2.2.4 Selection of an Appropriate Strategy; 2.2.5 Case Studies of Strategy

Development; References; 3 Preparation of Tritium-Labeled Compounds by Isotope Exchange Reactions; 3.1 Homogeneous Acid- or Base-Catalyzed Exchange; 3.1.1 Exchange without Added Acid or Base; 3.1.2 Exchange under Acidic Conditions; 3.1.3 Exchange under Basic Conditions; 3.2 Heterogeneous Catalysis with Tritium in Solvent; 3.2.1 Metals; 3.2.2 Other Catalysts 3.3 Heterogeneous Catalysis in Solution with Tritium Gas 3.3.1 Metal Catalysts with Nonreducible Substrates in Aqueous Solution; 3.3.2 Metal Catalysts with Nonreducible Substrates in Organic Solvents; 3.3.3 Other Catalysts; 3.3.4 Metal Catalysts with Reducible Substrates; 3.4 Homogeneous Catalysis in Solution with Tritiated Water; 3.4.1 Exchange Catalyzed by Metal Salts; 3.4.2 Exchange Catalyzed by Organoruthenium Complexes; 3.4.3 Exchange Catalyzed by Iridium Dionates; 3.4.4 Exchange Catalyzed by Iridium Cyclopentadienides; 3.5 Homogeneous Catalysis with Tritium Gas; 3.5.1 Iridium Phosphines 3.5.2 Iridium Dionate Complexes 3.5.3 Iridium Cyclopentadienide Complexes; 3.6 Solvent-Free Catalytic Exchange; 3.6.1 High-Temperature Solid-State Catalytic Isotope Exchange; 3.6.2 Thermal Tritium Atom Bombardment; 3.6.3 Other Radiation-Induced Labeling Methods; References; 4 Preparation of Tritium-Labeled Compounds by Chemical Synthesis; 4.1 Catalytic Tritiations; 4.1.1 Tritiation of Carbon-Carbon Multiple Bonds; 4.1.2 Tritiation of Carbon-Heteroatom Multiple Bonds; 4.1.3 Homogeneously Catalyzed Reactions; 4.2 Catalytic Tritiolyses; 4.2.1 Tritiodehalogenations 4.2.2 Tritiolyses of Benzylic N- and O-Functions 4.2.3 Tritiodesulfurizations; 4.3 Tritide Reductions; 4.3.1 Sodium Borotritide (NaB_3H_4); 4.3.2 Sodium Cyanoborotritide ($\text{NaB}_3\text{H}_3\text{CN}$); 4.3.3 Sodium/Tetramethylammonium Triacetoxymborotritide [$\text{Na}/\text{NMe}_4\text{B}_3\text{H}(\text{OAc})_3$]; 4.3.4 Lithium Tritide (Li_3H); 4.3.5 Lithium Borotritide (LiB_3H_4); 4.3.6 Lithium Triethylborotritide ($\text{LiEt}_3\text{B}_3\text{H}$, Li-Super-Tritide); 4.3.7 Lithium Tri-sec-Butylborotritide [$\text{Li}(\text{sec-Bu})_3\text{B}_3\text{H}$, Li T-Selectride]; 4.3.8 Lithium [$^3\text{H}_2$]Boratabicyclo[3.3.1]nonane; 4.3.9 Tritiated Borane (THF-Complex) (B_2^3H_6 ; $\text{B}_3\text{H}_3 \cdot \text{THF}$); 4.3.10 Tritiated Alkylboranes 4.3.11 Lithium Aluminum Tritide (LiAl^3H_4)

Sommario/riassunto

Compounds labeled with carbon-14 and tritium are indispensable tools for research in biomedical sciences, discovery and development of pharmaceuticals and agrochemicals. Preparation of Compounds Labeled with Tritium and Carbon-14 is a comprehensive, authoritative and up-to-date discussion of the strategies, synthetic approaches, reactions techniques, and resources for the preparation of compounds labeled with either of these isotopes. A large number of examples are presented for the use of isotopic sources and building blocks in the preparation of labeled target compounds, illustrating

2. Record Nr.	UNINA9910956827103321
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ISBN	1-317-73931-0 1-315-79270-2 1-317-73930-2
Edizione	[First edition.]
Descrizione fisica	1 online resource (x, 215 pages)
Collana	Contemporary Topics in Vocational Psychology Series
Disciplina	371.425
Soggetti	Vocational guidance
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (pages 175-197) and indexes.
Nota di contenuto	Contents: Vocational Behavior and Career Development: An Introduction. The Concept of Development. The Context of Career Development. A Life-Span Developmental Approach to Career Development. Career Development: The Sample Case of Adolescence. Toward a Methodological Agenda for the Study of Vocational Behavior and Career Development. The Career Development of Women. Career Development and Health. Intervention in Vocational Behavior and Career Development.
Sommario/riassunto	This book places career development into the mainstream of human development research and theory. The result is a powerful synthesis of vocational psychology and the most recent advances in lifespan developmental psychology, thus offering a developmental-contextual framework for guiding theory and research in career development. Its chapters demonstrate the utility of this framework for the study of women's career development, health and careers, career intervention, and the selection and application of appropriate research methodologies. Scholars as well as intervention specialists should find this volume to be of great value. The adaption of this developmental-contextual framework for career development theory, research, and intervention may represent an important future for vocational

