



Tetrahedron: Asymmetry Report Number 157

## Stimulating excursions into organolead chemistry: modular domino sequences triggered by oxidative cleavage

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### ABSTRACT

The present report intends to highlight the main lines of our investigation on a series of modular domino reactions focusing on a multi-task reagent, namely  $Pb(OAc)_4$ , in conjunction with an olefin as a source of complexity. It covers the design, development, and mechanistic aspects of a domino methodology discovered in our laboratory, which presents numerous challenges, including issues of chemo-, regio-, and diastereoselectivities. The principal characteristic of the chemistry presented is the potential of creating cyclic arrays that can be suitably functionalized for subsequent conversion into various complex systems. The effects of systematic variation of domino promoter, substitution pattern, solvent, temperature, and microwave activation on the outcome of the domino reaction are presented. In general terms, the domino chemistry reported here could be conveniently divided into two categories, dealing with first and second generation domino probes based on the nature of the angular substituent, each of which will be addressed in turn. This review is not intended to give an extensive coverage of the various uses of  $Pb(OAc)_4$  in synthesis reported in the literature, but will expose relevant reactions where appropriate focusing exclusively on multi-stage transformations initiated by the reagent.

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### Contents

1. Introduction and historical background	982
2. Part I. A domino type ring-expanding methodology uncovered by discovery	983
2.1. Diverging behavior in the Hajos–Parrish and Wieland–Miescher series	984
2.1.1. Computational studies on the lead tetraacetate mediated domino reaction	985
2.1.2. What one can do with these complex molecules	986
2.2. Designing path-selective one-pot multi-stage transformations	986
2.2.1. Construction of the basic ene-diol framework. The probe	986
2.2.2. Unrewarding pioneering efforts; a $Pb^{IV}/Pb^{II}$ comparison	987
2.2.3. Selected literature examples for transformations mediated by both $Pb(OAc)_4$ and $Pb(OAc)_2$	988
2.2.4. Combined use of two-or more reagents in one-pot transformations	989
2.3. Initial development	989
2.4. Extending the chemistry to other unsaturated diols	990
2.4.1. Chiral pool derived domino probes from (R)-(-)-carvone	990
2.4.2. Chiral pool derived domino probes from testosterone; skeleton modified steroids	990
3. Experiments to probe the influence of the solvent, the oxidant, the substitution pattern, function compatibility and microwave activation	992
3.1. The substitution	993
3.2. The solvent	993
3.2.1. Solvent variations in the hydrindene-diol series	993
3.2.2. Solvent variations in the octalin-diol series	994
3.2.3. Other carboxylic solvents	994
3.3. Oxidant and function compatibility: can other oxidants do the job?	996
3.4. Probing the limits of efficiency: function compatibility, scale	998
3.5. Microwave activation	1000

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## **Table of Contents Excursions Into Chemistry**

1. Understanding the eBook Excursions Into Chemistry
  - The Rise of Digital Reading Excursions Into Chemistry
  - Advantages of eBooks Over Traditional Books
2. Identifying Excursions Into Chemistry
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Excursions Into Chemistry
  - User-Friendly Interface
4. Exploring eBook Recommendations from Excursions Into Chemistry
  - Personalized Recommendations
  - Excursions Into Chemistry User Reviews and Ratings
  - Excursions Into Chemistry and Bestseller Lists
5. Accessing Excursions Into Chemistry Free and Paid eBooks
  - Excursions Into Chemistry Public Domain eBooks
  - Excursions Into Chemistry eBook Subscription Services
  - Excursions Into Chemistry Budget-Friendly Options
6. Navigating Excursions Into Chemistry eBook Formats

- ePub, PDF, MOBI, and More
  - Excursions Into Chemistry Compatibility with Devices
  - Excursions Into Chemistry Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Excursions Into Chemistry
    - Highlighting and Note-Taking Excursions Into Chemistry
    - Interactive Elements Excursions Into Chemistry
  8. Staying Engaged with Excursions Into Chemistry
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Excursions Into Chemistry
  9. Balancing eBooks and Physical Books Excursions Into Chemistry
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Excursions Into Chemistry
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Excursions Into Chemistry
    - Setting Reading Goals Excursions Into Chemistry
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Excursions Into Chemistry
    - Fact-Checking eBook Content of Excursions Into Chemistry
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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