

Introduction To Organic Laboratory Techniques A Microscale Appr

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in this laboratory textbook for students of organic chemistry experiments are designed to utilize
microscale glassware and equipment the textbook features a large number of traditional organic reactions
and syntheses as well as the isolation of natural products and experiments with a biological or health
sciences focus the organization of the text is based on essays and topics of current interest the lab manual
contains a comprehensive treatment of laboratory techniques

in this laboratory textbook for students of organic chemistry experiments are designed to utilize standard
scale macroscale glassware and equipment but with smaller amounts of chemicals and reagents the
textbook features a large number of traditional organic reactions and syntheses as well as the isolation of
natural products and experiments with a biological or health sciences focus the organization of the text is
based on essays and topics of current interest contains a comprehensive treatment of laboratory
techniques including both small scale and some microscale methods

featuring new experiments a new essay and new coverage of nanotechnology this organic chemistry
laboratory textbook offers a comprehensive treatment of laboratory techniques including small scale and
some microscale methods that use standard scale macroscale glassware and equipment the book is

organized based on essays and topics of current interest and covers a large number of traditional organic reactions and syntheses as well as experiments with a biological or health science focus seven introductory technique based experiments thirteen project based experiments and sections on green chemistry and biofuels spark students interest and engage them in the learning process instructors may choose to offer cengage learning s optional premium website which contains videos on basic organic laboratory techniques important notice media content referenced within the product description or the product text may not be available in the ebook version

featuring 66 experiments detailing 29 techniques and including several explicating essays this lab manual covers basic lab techniques molecular modeling properties and reactions of organic compounds the identification of organic substances project based experiments and each step of the various techniques the authors teach at western washington university and north seattle community college annotation 2004 book news inc portland or booknews com

featuring new experiments a new essay and new coverage of nanotechnology this organic chemistry laboratory textbook offers a comprehensive treatment of laboratory techniques including small scale and some microscale methods that use standard scale macroscale glassware and equipment the book is organized based on essays and topics of current interest and covers a large number of traditional organic reactions and syntheses as well as experiments with a biological or health science focus seven introductory technique based experiments thirteen project based experiments and sections on green chemistry and biofuels spark students interest and engage them in the learning process instructors may choose to offer cengage learning s optional premium website which contains videos on basic organic laboratory techniques

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integrating 56 microscale and standard scale procedures and experiments this comprehensive organic laboratory text allows all programs even those that cannot afford a large investment in commercial kits to complete effective microscale experiments the fifth edition now features discovery cooperative discovery and combination labs background chapters guide students through laboratory techniques enabling them to work as real world chemists this lab manual covers treatment of safety and hazardous waste disposal coverage of laboratory techniques for the handling synthesis separation and purification of organic compounds and inclusion of spectroscopic methods for the identification of compounds

this lab manual offers students the opportunity to learn organic chemistry through a green chemistry lens resulting in a more sustainable future looking course lipshutz and muchalski s organic laboratory experiments of the future doing chemistry in water approaches the subject with experiments diagrams and illustrations shaped by student feedback and honed through years of research and laboratory experience organic laboratory experiments of the future doing chemistry in water includes material on reactions run in water including but not limited to ppm pd catalyzed couplings snar reactions nitro group reductions enzyme catalyzed reactions catalytic hydrogenation of olefins olefin metathesis reductive aminations and chemoenzymatic sequences this lab manual is ideal for courses in organic chemistry biochemistry sustainable and green chemistry and environmentally responsible lab courses provides practical information and techniques for utilizing green chemistry and chemistry in water in particular in the study of modern organic chemistry includes numerous figures examples illustrative problems and appendices that reinforce laboratory concepts and methods features coverage on experiments that focus on chemocatalysis as well as biocatalysis reactions that include nobel prize winning organometallic

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