

Macroscale and Microscale Organic Experiments

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Kenneth L. Williamson - Katherine M. Masters

Organic Experiments

**Walter William Linstromberg, Henry E.
Baumgarten**

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simple equipment which reduces costs The disposal of chemicals is easier due to the small quantities Safety hazards are often reduced and many experiments can be done quickly Using plastic apparatus means glassware breakages are minimised Practical work is possible outside a laboratory Microscale Chemistry is a book of such experiments designed for use in schools and colleges and the ideas behind the experiments in it come from many sources including chemistry teachers from all around the world Current trends indicate that with the likelihood of further environmental legislation the need for microscale chemistry teaching techniques and experiments is likely to grow This book should serve as a guide in this process

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Coelho,Bin Tan,Robert Franzén,2016-12-16 This expansive and practical textbook contains organic chemistry experiments for teaching in the laboratory at the undergraduate level covering a range of functional group transformations and key organic reactions The editorial team have collected contributions from around the world and standardized them for publication Each experiment will explore a modern chemistry scenario such as sustainable chemistry application in the pharmaceutical industry catalysis and material sciences to name a few All the experiments will be complemented with a set of questions to challenge the students and a section for the instructors concerning the results obtained and advice on getting the best outcome from the experiment A section covering practical aspects with tips and advice for the instructors together with the results obtained in the laboratory by students has been compiled for each experiment Targeted at professors and lecturers in chemistry this useful text will provide up to date experiments putting the science into context for the students

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