



# Experimental Organic Chemistry: Laboratory Manual

*Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García*

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*Experimental Organic Chemistry: Laboratory Manual* is designed as a primer to initiate students in Organic Chemistry laboratory work. Organic Chemistry is an eminently experimental science that is based on a well-established theoretical framework where the basic aspects are well established but at the same time are under constant development. Therefore, it is essential for future professionals to develop a strong background in the laboratory as soon as possible, forming good habits from the outset and developing the necessary skills to address the challenges of the experimental work.

This book is divided into three parts. In the first, safety issues in laboratories are addressed, offering tips for keeping laboratory notebooks. In the second, the material, the main basic laboratory procedures, preparation of samples for different spectroscopic techniques, Microscale, Green Chemistry, and qualitative organic analysis are described. The third part consists of a collection of 84 experiments, divided into 5 modules and arranged according to complexity. The last two chapters are devoted to the practices at Microscale Synthesis and Green Chemistry, seeking alternatives to traditional Organic Chemistry.

- Organizes lab course coverage in a logical and useful way
- Features a valuable chapter on Green Chemistry Experiments
- Includes 84 experiments arranged according to increasing complexity

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