



Practical Organic Chemistry: Volume-I

Sharda Pasricha & Ankita Chaudhary

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About the Book

This book is intended to provide guidance to undergraduate students on the essential experimental techniques used in a typical undergraduate lab. This knowledge will not only help them to perform experimental work but will also help them extend their knowledge to face greater challenges during their postgraduate classes as well as in project-based research.

Salient Features

Written in two parts, the first part is devoted to the basic concepts of safety, instrumentation, apparatus, techniques for purification and separation of organic compounds. The second part is devoted to preparatory methods for synthesis of organic compounds.

Some new green preparations which are now available have been included wherever the information was available.

Gives in-depth visual description of the safety methods, experimental setup, apparatus setup and end products obtained in the preparations wherever required.

The background of the reaction, safety considerations for handling of reagents, chemicals and products, concepts learnt from the experiments and utility of the exercise have been given special attention.

A special note of the things to remember while performing the experiments, based on the experience of the authors, has been included especially for the benefit of the students.

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5. Selected Experiments Based on the Concepts learnt so far

Part II: Small Scale Preparations

6. Small Scale Preparations for an Undergraduate Organic Chemistry Laboratory

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About the Author

Sharda Pasricha :- is Associate Professor, Department of Chemistry, Sri Venkateswara College, University of Delhi, Delhi, India. She has more than 20 years of teaching experience at the undergraduate and postgraduate level. She has published several research articles in both national and international journals and has presented her work in numerous international/national conferences. She has also contributed several e-lesson plans and e-modules for undergraduate teachers and students. She has received several awards including the distinguished teacher award by University of Delhi. Her research interests include use of green chemistry and catalysis for synthesis of biologically important heterocyclic compounds.

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of experience in teaching postgraduate and undergraduate students. She has to her credit 27 research articles in journals of international and national repute, 3 book chapters, several e-modules and has presented her work in numerous international/national conferences. She has been a recipient of Junior/Senior Research Fellowship sponsored by CSIR, Science Meritorious Award, Jean and Ashit Ganguly Education Scholarship as well as UGC-Start Up Research Grant. Her research interests include design of novel green methodologies for the synthesis of biologically relevant heterocyclic compounds.