



# Practical Organic Synthesis: A Student's Guide

*Reinhart Keese, Martin P. Brändle, Trevor P. Toubé*

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Success in an experimental science such as chemistry depends on good laboratory practice, a knowledge of basic techniques, and the intelligent and careful handling of chemicals.

*Practical Organic Synthesis* is a concise, useful guide to good laboratory practice in the organic chemistry lab with hints and tips on successful organic synthesis. Topics covered include:

- safety in the laboratory
- environmentally responsible handling of chemicals and solvents
- crystallisation
- distillation
- chromatographic methods
- extraction and work-up
- structure determination by spectroscopic methods
- searching the chemical literature
- laboratory notebooks
- writing a report
- hints on the synthesis of organic compounds
- disposal and destruction of dangerous materials
- drying and purifying solvents

*Practical Organic Synthesis* is based on a successful course in basic organic chemistry laboratory practice which has run for several years at the ETH, Zurich and the University of Berne, and its course book *Grundoperationen*, now in its sixth edition.

Condensing over 30 years of the authors' organic laboratory teaching experience into one easy-to-read volume, *Practical Organic Synthesis* is an essential guide for those new to the organic chemistry laboratory, and a handy benchtop guide for practising organic chemists.

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