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Semi-Microscale. A semi-microscale apparatus is essentially a macroscale apparatus but lacks the condenser (Figure 5.34). This shortens the path length between distilling and receiving flask. It can be used for $\backslash(5)\backslash(10 \backslash: \backslashtext{mL}\backslash)$ of material.

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Macroscale and Microscale Organic Experiments (Edition 6), by Kenneth L. Williamson, Katherine M. Masters

Cengage Learning

Ken Williamson is retired from Mt. Holyoke College where he taught the organic chemistry laboratory course. He is an established authority on microscale techniques and regularly holds workshops and travels to campuses in the U.S., Canada, and Europe to demonstrate the use of microscale. Katherine M. Masters Pennsylvania State University

Now featuring new themed Modules experiments with real world applications, this Seventh Edition derives many experiments and procedures from the classic Feiser lab text, giving it an unsurpassed reputation for solid, authoritative content. This proven manual offers a flexible mix of macroscale and microscale options for most experiments, emphasizing safety and allowing savings on the purchase and disposal of expensive, sometimes hazardous, organic chemicals. Macroscale versions for less costly experiments allow users to get experience working with conventionally-sized glassware. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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This flexible, accurate manual includes both macroscale and microscale procedures for each experiment. The level and writing style of the text, which emphasizes biochemical and biomedical applications, make it ideally suited for the mainstream organic chemistry laboratory. A student CD-ROM includes videos and photos related to the material in the text. Videos feature the exact glassware required for each experiment and demonstrate techniques for how to conduct experiments successfully and safely. Photos show lab equipment set-ups. "In this Experiment" is a new feature that appears before every microscale experiment. It presents the objective of the experiment and keeps students from getting bogged down in the minute details of experimental procedures. An instructor web site provides a forum where instructors can communicate directly with the text author about specific experiments and the implementation of microscale techniques. The site also includes PDF files from the Instructor's Resource Manual.

This updated revision offers total coverage of organic laboratory experiments and techniques focusing on modern laboratory instrumentation, a strong emphasis on lab safety, additional concentration on sequential reaction sequences, excellent pre- and post-lab exercises, and multistep experiments which maximize the number of manipulations students perform per lab period. The microscale approach is low in cost, offers ease of doing experiments and uses minimal amounts of chemicals. A number of experiments include instructions for scaling up.