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Book Review

HANDBOOK OF DERIVATIVES FOR CHROMATOGRAPHY. K. Blau and G. S. King (editors). Heyden Publishers, London, Bellmawr, N.J., Rheine, 1977. xvi+576 pages. Price £24.00; U.S.A. \$48.0; DM 154.00.

This book opens with an introductory chapter by the editors. In this chapter the contents of the book are summarized in four tables according to reactions with compounds of different groupings. Some guidance is provided for an optimal usage of the work and the reader is familiarized with the philosophy and some practical concepts of microscale derivatization. The following seven chapters deal with the general concepts of certain typical basic reactions as used frequently for chromatographic procedures. Relevant examples are given. They are in the order esterification (chapter 2); acylation (chapter 3); silylation (chapter 4); protective alkylation (chapter 5); ketone-base condensation (chapter 6); and cyclization (chapter 7). A chapter on microreactions follows with the intention of expanding the derivatization concept to more drastic reaction conditions which may result in extensive cleavage or rearrangement of molecules. It also deals with reaction techniques carried out directly on the chromatographic system. The other chapters deal with more specialized topics such as the formation of fluorescent derivatives in liquid chromatography (chapter 9) and the formation of nitrophenyl derivatives (chapter 10). Chapters 11 and 12 are concerned with the derivatization techniques of anions and cations specifically for gas chromatography. The separation of optically active compounds is discussed in chapter 13. The book finishes off with a chapter on ion-pair formation for extraction and chromatography.

One has to credit the editors for trying a new approach in dealing with the topic of derivatization and although the experiment has not been fully successful one can without hesitation recommend this book as a valuable source of information to any scientist using chromatographic techniques to solve his analytical problems.

“Recently published by the WHO International Reference Centre for Community Water Supply is a comprehensive report by Dr. A. W. Garrison of the U.S. Environmental Protection Agency. Entitled *Analysis*

of Organic Compounds in Water to Support Health Effects Studies, it has been published as IRC Technical Paper Series No. 9. The study examines and classifies the data available thus far on organic compounds in water and summarizes the current status of the analytical methodology for these compounds. The need for certain improvements in the methodology is shown, and factors are discussed that must be considered when developing protocols for the analysis of organic compounds in water to support epidemiological studies. The report has been prepared to assist those involved in health-effects studies relating to the re-use of wastewater for human consumption. It forms part of the IRC programme for the exchange of scientific information and the coordination of research in this field.”

WHO International Reference Centre for Community Water Supply,
P.O. Box 140 2260 AC, Leidschendam, The Netherlands