Available online at www.sciencedirect.com
SCIENCE DIRECT®
Carbohydrate Polymers 57 (2004) 469–471
Carbohydrate Polymers
www.elsevier.com/locate/carbpol

Book Reviews

Handbook of Basic Tables for Chemical Analysis, 2nd Edition

T.J. Bruno and P.D.N Svoronos. (2003, CRC Press, Boca Raton, USA) 672 pages, ISBN 0-8 493-1573-5

Basic tables are one of the most useful basic data sources for practicing scientists and research students who must use various aspects of chemical analysis in their work. *Handbook of Basic Tables for Chemical Analysis, 2nd Edition* is a single source of information about 'instrumental techniques' (tables on chromatography, spectroscopy and chemical methods), which are most useful in solving common analytical problems. These tables contain information collected from current research papers and provide data that is not easily obtainable elsewhere.

This volume is composed of 15 chapters. Tables of various types of chromatography method are provided in the opening four chapters. Modern methods of solid phase microextraction (SPME), headspace analysis, and new information on detector optimisation in gas chromatography (GC) are discussed in the first chapter. The second chapter covers the most recent chiral stationary phases, detector information, and revised solvent tables in high-performance liquid chromatography (HPLC). General basic tables about solvents, mobile phases and spray reagents for thin-layer chromatography (TLC), and tables of solubility parameters in supercritical fluid extraction and chromatography, are provided in the next two chapters, respectively.

Chapters 5 and 6 provide tables about electrophoresis and electroanalytical methods. This includes information about separation ranges and preparation processes of polyacrylamide gels, and tables about standard parameters of various electrochemical techniques. Tables detailing ultraviolet and infrared spectrophotometry are displayed in the following two chapters, respectively. This includes data about solvents, common liquids and ultraviolet functionality, optical materials, solvents and other related parameters in infrared spectroscopy. Chapter 9 provides detailed information about chemical shifts in NMR spectroscopy, whilst chapters 10 and 11 present standard parameter information for mass spectrometry and atomic absorption spectrometry, respectively. The final 4 chapters focus on general data about qualitative tests, solution properties and laboratory safety, and a selection of miscellaneous tables. The chapter on laboratory safety provides information on all kinds of chemical hazards and electrical hazards in the analytical laboratory. A comprehensive subject index facilitates rapid location of information.

The collection of data tables provides an up-to-date, self-contained source of information, which is of great value as an essential reference tool. It is highly recommended to all practicing scientists and research students who use various aspects of chemistry analysis in their research and design their own analytical methodologies.

John F. Kennedy*,
Meng M. He
Chembiotech Laboratories,
Institute of Research and Development,
University of Birmingham Research Park,
Vincent Drive, Birmingham B15 21, UK

Available online 15 July 2004

*Corresponding author. Tel.: +44-121-414-7029; fax: +44-121-414-7030.
0144-8617/$ - see front matter
doi:10.1016/j.carbpol.2004.06.009

Textile Terms and Definitions, 11th edition

M.J. Denton and P.N. Daniels, editors. (2002, The Textile Institute, Manchester, UK) ix+408 pages, ISBN 1-870-37244-1, £70-00

Textiles are one of the most widely utilised types of materials in modern society and are therefore indispensable in people's life, e.g. clothing, table linen, canvas, lace, etc. The textile manufacturing industry is thus a very large and important industry, and there are many individuals studying and working in this area and it does mainly include carbohydrate polymers—both in unmodified and modified forms. This means that there is a definite need for a clear and concise dictionary of textile terminology. *Textile Terms and Definitions* therefore provides a structured and systematic, up-to-date account of textile terms and definitions and defines around four thousand textile terms, spanning every sector of textiles from fibres to finished products.

The definitions which are supported by numerous illustrations are compiled by panels of experts in their