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Carel J. van Oss

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This work is a thesaurus of examples of the variegated biochemical substances that can be monitored (often at extremely low concentrations) by various modes of HPLC. In the introductory chapter Waters proposes an intriguing etymology of the word "chromatography".

The book is highly recommended to all clinical chemists, biochemists and analytical chemists. For more general and technical details of the fundamentals of the methods used, the reader may have advantage in consulting, in conjunction with this book, the work discussed below.

Carel J. van Oss

APPLICATIONS OF HIGH PERFORMANCE

LIQUID CHROMATOGRAPHY

A. Pryde and M.T. Gilbert

Chapman and Hall, London; John Wiley and Sons,
New York, 1979; hardbound, 255 pages

In this excellent monograph the theory and practice of high performance liquid chromatography (a term that has the same initials as, and is used interchangeably with, high pressure liquid chromatography) are treated. The book is divided in five parts: I, Theory and practice of HPLC; II, The application of HPLC in pharmaceutical analysis; III, Application of HPLC in biochemical analysis; IV, Environmental analysis by HPLC; and V, Miscellaneous applications. Part I comprises one of the best elucidations of the theory, practice, and subdivision into seven quite distinct modes, of HPLC. Parts II, III and IV furnish a systematic and well-organized background on the applications of HPLC, that usefully supplements the variegated and detailed applications described in the book edited by Hawk (reviewed above). Part V comprises four more chapters on: miscellaneous plant products, analysis of food products,

organometallic and inorganic complexes, and optical resolution, as well as nine appendices treating: 1, The Wilke-Chang equation; 2, Electronic absorption bands for representative chromophores; 3, Packing materials for adsorption and liquid-liquid partition chromatography; 4, Polymer resins and polymer-coated materials for HPLC; 5, Chemically bonded stationary phases for HPLC; 6, Calculation of surface coverage of a bonded phase; 7, Use of reversed phase HPLC to measure partition coefficients and to predict biological activity; 8, Packing materials for exclusion chromatography; and 9, Comparison of mesh numbers and aperture sizes. The work ends with a list of 876 references, a compound index and a subject index. This book is indispensable for all pharmaceutical, clinical, preparative and analytical chemists and biochemists who are, or are intending to become, involved in HPLC.

Carel J. van Oss