

## BOOK REVIEW

Michael A. Peat,<sup>1</sup> Ph.D. and Dennis J. Crouch,<sup>1</sup> B.S.

### A Review of *Instrumental Data for Drug Analysis, Vol. I*

---

**REFERENCE:** Mills, T., Price, W. N., Price, P. T., and Roberson, J. D., *Instrumental Data for Drug Analysis*, Vol. 1, Elsevier Publications, 52 Vandcrbilt Ave., New York, NY, 10017, 1982, 640 pages.

This book is a reference book consisting of chromatographic and spectral data on 300 selected compounds. For each drug there is a monograph that lists the chemical title, molecular formula and weight, synonyms and tradenames, use, and chemical structure. For each drug, ultraviolet, nuclear magnetic resonance, infrared, and mass spectroscopy spectra and tabulations of gas chromatographic and high pressure liquid chromatographic data where available are included. The drugs are presented in alphabetical order. Two appendices are included; one is the listing of Kovats indices obtained using a 1.2-m by 6.35-mm (4-ft by 1/4-in.) 3% OV-1 on Chromosorb WHP 80-100 mesh column. The second appendix is a listing of the ultraviolet maxima in 0.2*N* sulfuric acid, basic and ethanolic solutions, respectively.

This book will be useful for all those involved in drug analysis; drug chemists, however, will find it more beneficial than toxicologists. The appendix listing of Kovats indices will be extremely helpful for the preliminary identification of unknowns. It is, however, unfortunate that a third appendix listing of mass spectral base peak data was not also included, since this would have been of assistance in the identification of unknowns. The spectra data included in the book are of high quality and the authors were particularly careful in standardizing the conditions used for obtaining these data.

This reference is one of the first to list data obtained for liquid chromatography; unfortunately it is sometimes difficult to follow and would have been more complete if a reverse phase system had also been used.

In summary, this reference book is of considerable value to drug chemists and toxicologists as it is one of the first to tabulate such a wide variety of spectral and chromatographic data. Although the cost may be considered by some to be excessive, it is a book that we would recommend for purchase by all laboratories involved in drug analysis.

<sup>1</sup>Associate director and associate toxicologist, respectively, Center for Human Toxicology, University of Utah, Salt Lake City, UT 84112.