

**CRC Handbook of Chemistry and Physics. 91st Edition.** Edited by W. M. Haynes. CRC Press (Taylor and Francis Group), Boca Raton, FL. 2010. xi +2610 pp. 22 × 29 cm. ISBN 978-1-4398-2077-3. \$149.95.

Weighing 7.4 pounds, this edition has 194 fewer pages than the previous edition, and its price is the same, so it is still a bargain for those who insist on having the latest tables of data. The 2011 CD-ROM edition (\$169.95) was published in August and is somewhat more convenient to search than the print version. At my institution the 91st edition of the Handbook is accessible online.

For medicinal chemists who purchased the 90th print edition, there are few new sections that will be of interest. The section on physical constants of organic compounds contains exactly the same number of entries (10 877) as in the 90th edition, and the section on structure and function of common drugs also is identical (107 entries). Some of the figures in the tables of bond dissociation energies, electron affinities, and atomic and molecular polarizabilities have been updated. Tables of the thermophysical properties of organic

compounds have been validated through the cooperation of the Thermodynamics Research Center of the National Institute of Standards and Technology. There are new tables of abbreviations in the area of polymer science (two pages), and physical properties of 20 polymers are tabulated (two pages). Unfortunately, in order to keep the text “portable”, the indices of Chemical Abstracts registry numbers for organic and for inorganic compounds have been deleted. These are, however, available in the electronic versions of the Handbook.

Every chemist will have occasion to refer to this text from time to time, but I cannot necessarily recommend updating it for one’s personal library each year.

**J. Keith Guillory**

*College of Pharmacy  
The University of Iowa  
Iowa City, Iowa 52242, United States  
E-mail: keith-guillory@uiowa.edu*

DOI: 10.1021/jm101422n  
Published on Web 11/23/2010