

Book Reviews

Progress in Heterocyclic Chemistry. Volume 5. By H. Suschitzky and E. F. V. Scriven. Pergamon: Oxford, 1993, 341 pp., hardback £ 80. ISBN 0-0804-2074-5. paperback £ 14.40. ISBN 0-0804-2075-3.

Volume 5 extends this useful series by surveying the literature published during 1992. H. Suschitzky and E. F. V. Scriven as Editors have assembled under 8 completely independent chapters, the work described in some 1659 separate published articles.

Chapters 1 and 2 are given over to reviews, in Chapter 1 (R. A. Aitken, I. Gosney and J. Cadogan) SO₂ extrusion from five-membered rings, which completes a previous review on this topic, is covered. Chapter 2 (B. Stanovnik) presents the use of methyl (Z)-2-benzoylamino-3-dimethylaminopropenoate, a masked α -formyl- α -amino acid derivative, as a useful building block for the synthesis of heterocyclic systems, in which the α -amino acid structural element, is incorporated into the ring system.

The following six chapters, which are logically organised by the ring size and complexity of the heterocyclic system, cover a wide spectrum of topics in heterocyclic chemistry, including developments in new synthetic methodology and reactivity. Each of the chapters, which contains a reference section covering relevant publications are all written by leading researchers in their field.

Chapter 3 (A. Padwa, S. S. Murphree, 15 pp, 64 refs) Three-Membered Ring Systems; Chap-

ter 4 (J. Parrick, L. K. Mehta, 13 pp, 78 refs); Chapter 5.1 (J. B. Press, R. K. Russel, 28 pp, 281 refs) Five-Membered Ring Systems: Thiophenes and Se and Te Analogs; Chapter 5.2 (R. J. Sundberg, P. Van Nguyen, 19 pp, 64 refs) Five-Membered Ring Systems: Pyrroles and Benzo Derivatives; Chapter 5.3 (C. W. Bird, 14 pp, 55 refs) Five-Membered Ring Systems: Furan and Benzo Derivatives; Chapter 5.4 (S. A. Lang Jr, V. J. Lee, 16 pp, 142 refs) Five-Membered Ring Systems: With More than One N atom; Chapter 5.5 (R. Tanaka, I. Shinkai, 14 pp, 68 refs) Five-Membered Ring Systems: With N and S (Se) Atoms; Chapter 5.6 (R. A. Aitken, 12 pp, 103 refs) Five-Membered Ring Systems: With O and S (Se, Te) Atoms; Chapter 5.7 (G. V. Boyd, 17 pp, 60 refs) Five-Membered Ring Systems: With O and N Atoms; Chapter 6.1 (J. G. Keay, J. E. Toomey Jr, 18 pp, 69 refs) Six-Membered Ring Systems: Pyridine and Benzo Derivatives; Chapter 6.2 (D. T. Hurst, 19 pp, 45 refs) Six-Membered Ring Systems: Diazines and Benzo Derivatives; Chapter 6.3 (D.T. Hurst, 23 pp, 55 refs) Six-Membered Ring Systems: Triazines, Tetrazines and Fused Ring Polyaza Systems; Chapter 6.4 (J. D. Hepworth, B.

M. Heron, 26 pp, 110 refs) Six-Membered Ring Systems: With O and/or S Atoms. Chapter 7 (J. M. Kane, N. P. Peet, 32 pp, 149 refs) Seven-Membered Rings. Chapter 8 (G. R. Newkome, 16 pp, 134 refs) Eight-Membered and Larger Rings.

The style and format of the chapters are not rigidly uniform throughout, since they are presented directly as submitted by the authors and the presentation is marred by a number of errors, which include listed references which are never cited in the text.

The book is a good source of references, but the presentation of the references is less than ideal because the book lacks an author index. It is impossible to search the 1600 or so references by author. Overall, this volume will be of significant use as a reference to those working in the field of heterocyclic chemistry.

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