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- 369 The Reactivity of Some Primary Amines in S_N2Ar Reactions with 2-Chloro-3,5-Dinitropyridine **Eugenia Cristina Brenelli and Paulo José Samenho Moran**
(M 2816)
- 370 Competition between Methoxide Attack at Ring Carbon and at the Cyano Group of Cyanonitroanisoles. The Effects of Cations **Paula C. M. F. Castilho, Michael R. Crampton, and Jack Yarwood**
(M 2801)
- 372 Reductive Dechlorination of Chloro-phenols and -benzoic acids by Raney Co-Al Alloy in an Alkaline Deuterium Oxide Solution and Preparation of Deuteriated Salicylic Acids **Masashi Tashiro, Hirohisa Tsuzuki, Jun-ichi Matsumoto, Shuntaro Mataka, Kouji Nakayama, Youichi Tsuruta, and Tadashi Yonemitsu**
(M 2826)
- 374 Generation and Trapping of 2- and 3-Pyridylhalogenocarbenes from Diazirines **Mark S. Baird and Ian Bruce**
(M 2852)
- 376 Generation and Trapping of (Thiophen-3-yl)halogenocarbenes from 3-Dihalogenomethylthiophenes or 3-Chloro-3(thiophen-3-yl) diazirine **Mark S. Baird and Ian Bruce**
(M 2872)
- 378 Decalin Derivatives for Sesquiterpene Synthesis **Ajoy K. Banerjee, Héctor E. Hurtado, María G. Diaz, and Carmen A. Peña**
(M 2930)
- 380 The Synthesis and Spectroscopic Properties of Flavones: Special Mass Spectral Characteristics of 3-Methylflavones **Roy M. Letcher**
(M 2901)
- 381 A Novel Synthesis of Alkyl Aryl Sulphones *via* the Trialkylstibine-assisted Coupling of Arensulphonyl Chloride with Alkyl Halides **Chen Chen, Fanghua Zhu, and Yao-Zeng Huang**
(—)
- 382 Synthesis of 6-[(*E*)-4-Acetoxy-3-methylbut-2-enylamino]-9- β -D-ribofuranosylpurine, a New Metabolite of Zeatin Riboside **René Mornet and Michel Laloue**
(—)
- 384 Use of 1H N.M.R. Aromatic Chemical-shift Effects in the Structural Differentiation of C-2a *versus* C-3a Side-chain-substituted *N*-Acyl-2,3-Dialkylindoles **Helena Nandin de Carvalho**
(—)
- 386 Reissert Compound Formation by Use of Solid-Liquid Phase Transfer Catalysis **Barrie C. Uff, Donald L. W. Burford, and Yee-Ping Ho**
(—)
- 388 A Re-investigation of the Reaction between Quinoline and Calcium Hydride **Alan G. Osborne and Miriam L. Staley**
(—)
- 390 Stereochemistry and Mechanism of Deoxygenation and Reductive Cleavage of an α,β -Epoxyketone in a Tricyclo[5.2.2.0^{2,6}]-undecane Framework **Vishwakarma Singh and Pradeep T. Deota**
(—)
- 392 Kinetics and Mechanism of Reactions between 1-Halogeno-2,4,6-trinitrobenzene and 2-Hydroxypyridine **Luciano Forlani, Grazia Guastadisegni, and Luca Raffellini**
(—)
- 394 Electrodimerisation of Alkyl Halides in the Presence of a Sacrificial Anode **Jean Claude Folest, Jean Yves Nedelec, and Jacques Perichon**
(—)
- 396 Correlation of Hammett Substituent Constants with Charge Densities calculated using the 6-31G*(5D) Basis Set **Tadeusz Marek Krygowski, Krzysztof Woźniak, Charles W. Bock, and Philip George**
(—)
- 398 Partially Acylated Glucose and Sucrose Derivatives from *Salpiglossis sinuata* (Solanaceae) **Mariano Castillo, Joseph D. Connolly, Patience Ifeadike, Cecilia Labbé, David S. Rycroft, and Neill Woods**
(—)

N.B. The numbers in parentheses, prefaced by *M*, indicate the first frame occupied by the *full-text version* of the paper in *J. Chem. Research (M)*. Where no such number is given, the paper as published in *J. Chem. Research (S)* is complete in itself, and there is no extra material in Part *M*.

Heinz Falk

The Chemistry of Linear Oligopyrroles and Bile Pigments

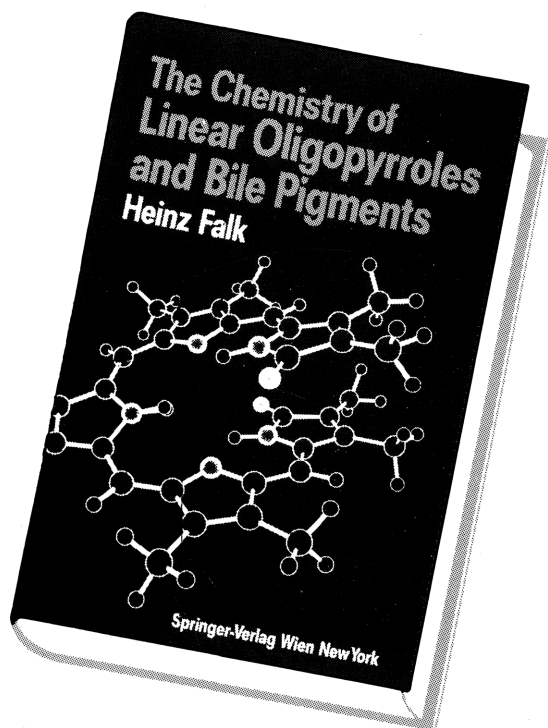
This monograph will be helpful to the specialist or researcher as well as to the newcomer in this interdisciplinary field of linear oligopyrrole chemistry, which ranges from medicinal and biological to physical sciences.

Linear oligopyrroles and bile pigments are important as antenna pigments of photosynthesis, light sensory pigments in plants, and products of animal and human

metabolism. Whereas di-, tri-, penta- and polypyrroles play no part in nature, they are useful as synthons in the synthesis of e.g. porphyrins and corrins, and even as organic conductors.

Discussion of the chemistry of linear oligopyrroles is started with reviews of nomenclature, occurrence, formation, importance, and history. Their structural and stereochemical aspects are illustrated by ball and stick models of X-ray crystallographic determinations as well as by the results obtained by various methods for their state of solution. The synthesis of these compounds is treated in a methodological way providing typical examples instead of listing all syntheses executed so far. Selected physical properties like absorption, emission, chiroptical data, and nuclear magnetic resonance are covered in detail. Nucleophilic, electrophilic, and radical reactions are discussed from the standpoint of semiempirical calculations providing typical examples. Moreover, their photochemistry, carrier mediated transport, skeletal transformations, redox properties, and catalytic function are included.

The book will provide advanced students approaching the subject from a variety of disciplines with the chemical background necessary to cope with the sometimes rather complicated material, but it will also provide the active researcher in this field with a timely review to inspire future work.



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