

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions I

Organic and Bio-organic Chemistry

CONTENTS

- 215 *peri*-Diketones with the ring system of cyclo-octa[*de*]naphthalene **David A. Jackson, Philip H. Lacy, and Donald C. C. Smith**
- 221 Reaction of 2,1,3-benzoxadiazole 1-oxide with ethyl 2,4-dioxo-4-phenylbutyrate. A route to 2-benzoylquinoxaline, its 1,4-dioxide, and related compounds **Adnan Atfah and John Hill**
- 225 The chemistry of *N*-substituted benzotriazoles. Part 14. Novel routes to secondary and tertiary amines and to *N,N*-disubstituted hydroxylamines **Alan R. Katritzky, Konstantina Yannakopoulou, Ping Lue, Danuta Rasala, and Laszlo Uroldi**
- 235 *N*-Hydroxy amides. Part 6. Synthesis and spectroscopic properties of 1-hydroxypiperazine-2,5-diones **Masayasu Akiyama, Akira Katoh, and Yuko Tsuchiya**
- 241 Photosensitized oxidation of furans. Part 14. Nature of intermediates in thermal rearrangement of some *endo*-peroxides of 2-alkoxyfurans: new rearrangement pathway of furan *endo*-peroxides **M. Liliana Graziano, M. Rosaria Iesce, Guido Cimminiello, and Rachele Scarpati**
- 247 Iminophosphorane-mediated synthesis of fused [1,2,4]triazines: preparation of [1,2,4]triazolo[5,1-*c*][1,2,4]triazine and [1,2,4]triazino[4,3-*b*][1,2,4,5]tetrazine derivatives **Pedro Molina, Mateo Alajarín, and Angel Vidal**
- 251 Allenes. Part 49. 4-Amino-2-(1-hydroxyalkyl)quinolines from phenylhydroxylamine and allenic nitriles **Stephen R. Landor, Z. Taneë Fomum, P. Forche Asobo, Phyllis D. Landor, and Andrew Johnson**
- 255 Synthesis of 5-stannylpyrimidines and their use in Pd-catalysed ketone formation **Joseph Arukwe, Tore Benneche, and Kjell Undheim**
- 261 Direct evidence for three 1,2-hydride migrations in the biosynthesis of cycloartenol from [2-¹³C²H₃] acetate in tissue cultures of *Physalis peruviana* **Shujiro Seo, Atsuko Uomori, Yohko Yoshimura, Ken-ichi Takeda, Haruo Seto, Yutaka Ebizuka, Hiroshi Noguchi, and Ushio Sankawa**
- 265 Synthetic studies relevant to biosynthetic research on vitamin B₁₂. Part 9. Synthesis of 20-methyl and 20-cyano isobacteriochlorins **David M. Arnott, Peter J. Harrison, Graeme B. Henderson, Zhi-Chu Sheng, Finian J. Leeper, and Alan R. Battersby**
- 279 Preparation of α -(*N*-trimethylsilyl)imino esters and their use in the synthesis of α -amino esters and 2-alkoxycarbonyl-imidazol-4(2*H*)-ones **Yoshihiko Matsuda, Shigeo Tanimoto, Tadashi Okamoto, and Syed Mashhood Ali**
- 283 Transformations of trichloromethyl groups during reactions of 3-trichloromethylpyridines with methoxide **Ronald S. Dainter, Tracey Jackson, Abdirahman H. H. Omar, Hans Suschitzky, Basil J. Wakefield, Nigel Hughes, Anthony J. Nelson, and George Varvounis**
- 289 Stepwise intramolecular cycloaddition of nitrile oxide equivalents derived from the Lewis acid-promoted reaction of 1-nitroalkadienes and allylic stannanes **Hidemitsu Uno, Ken-ichi Goto, Noriko Watanabe, and Hitomi Suzuki**
- 297 Total synthesis of analogues of the β -lactam antibiotics. Part 4. 4-*t*-Butoxycarbonyl-8-oxo-1,3,4-triazabicyclo[4.2.0]oct-2-ene-2-carboxylates **Chandra M. Pant, Richard J. Stoodley, Andrew Whiting, and David J. Williams**

- 303 Synthesis of cyclic allylic sulphides (ring sizes 5—15) *via* phenylthio participation **Malcolm Hannaby** and **Stuart Warren**
- 313 Radical induced cyclisations of some cyclic unsaturated allylic sulphones **Thomas A. K. Smith** and **Gordon H. Whitham**
- 319 Radical induced 1,3-rearrangement–cyclisations of some unsaturated allylic sulphones **Thomas A. K. Smith** and **Gordon H. Whitham**
- 327 Dienediolates from unsaturated carboxylic acids. Reaction with *para*-substituted benzaldehydes. Electronic effects on regioselectivity **Margarita Parra**, **Ramon Mestres**, **Domitila Aparicio**, **Nieves Durana**, and **Gloria Rubiales**
- 333 The α -alk-1-ynylation of β -dicarbonyl compounds and nitronate salts by alk-1-ynyl-lead triacetates **Mark G. Moloney**, **John T. Pinhey**, and **Eric G. Roche**
- 343 Structurally novel diterpenoid constituents from the stem bark of *Azadirachta indica* (Meliaceae) **Iffat Ara**, **Bina Shaheen Siddiqui**, **Shaheen Faizi**, and **Salimuzzaman Siddiqui**
- 347 Cyclisation of 5-bromomethyl-cycloheptene and -cyclo-octene: a new route to bicyclo[3.2.1]octanes and bicyclo[4.2.1]nonanes **Finlay MacCorquodale** and **John C. Walton**
- 353 Intramolecular cycloaddition of azoalkenes derived from allylic β -keto esters **Thomas L. Gilchrist**, **Oscar A. Sanchez Romero**, and **Robert C. Wasson**
- 361 Heterocycles by cycloaddition. Part 8. Preparation of [1]benzopyrano[4,3-*b*]pyrroles by intramolecular cycloaddition–extrusion of mesoionic oxazolium-5-olates **Hiroshi Kato**, **Shu-Zhong Wang**, and **Hirofumi Nakano**
- 365 Chemical deoxygenation of the trichothecenes diacetoxyscirpenol and deoxynivalenol **Stuart Cameron** and **Ernest W. Colvin**

Perkin Communications

- 371 8π 1,3,4,5-Thiatriazines from cycloadditions of triazolium imide 1,3-dipoles with methyl cyanodithioformate **Richard N. Butler**, **Paul D. O'Shea**, **D. Cunningham**, and **Patrick McArdle**
- 372 Molecular receptors with the calix[4]arene substructure. Synthesis of derivatives with mixed ligating functional groups **Elizabeth M. Collins**, **M. Anthony McKervey**, and **Stephen J. Harris**
- 374 Mechanism of the acid-catalysed rearrangement of α -free pyrromethanes **Anthony H. Jackson**, **Werawat Lertwanawatana**, **Ravindra K. Pandey**, and **K. R. Nagaraja Rao**
- 376 Synthesis of the carbazole alkaloids carbazomycin A and B and hyellazole **Christopher J. Moody** and **Pritom Shah**

AUTHOR INDEX

- Akiyama, Masayasu, 235
Alajarin, Mateo, 247
Ali, Syed Mashhood, 279
Aparicio, Domitila, 327
Ara, Iffat, 343
Arnott, David M., 265
Arukwe, Joseph, 255
Asobo, P. Forche, 251
Atfah, Adnan, 221
Battersby, Alan R., 265
Benneche, Tore, 255
Butler, Richard N., 371
Cameron, Stuart, 365
Cimminiello, Guido, 241
Collins, Elizabeth M., 372
Colvin, Ernest W., 365
Cunningham, D., 371
Dainter, Ronald S., 283
Durana, Nieves, 327
Ebizuka, Yutaka, 261
Faizi, Shaheen, 343
Fomum, Z. Tanee, 251
Graziano, M. Liliana, 241
Gilchrist, Thomas L., 353
Goto, Ken-ichi, 289
Hannaby, Malcolm, 303
Harris, Stephen J., 372
Harrison, Peter J., 265
Henderson, Graeme B., 265
Hill, John, 221
Hughes, Nigel, 283
Iesce, M. Rosaria, 241
Jackson, Anthony H., 374
Jackson, David A., 215
Jackson, Tracey, 283
Johnson, Andrew, 418
Kato, Hiroshi, 361
Kato, Akira, 235
Katritzky, Alan R., 225
Lacy, Philip H., 215
Landor, Phyllis D., 251
Landor, Stephen R., 251
Leeper, Finian J., 265
Lertwanawatana, Werawat, 374
Lue, Ping, 225
MacCorquodale, Finlay, 347
Matsuda, Yoshihiko, 279
McArdle, Patrick, 371
McKervey, M. Anthony, 372
Mestres, Ramon, 327
Molina, Pedro, 247
Moloney, Mark G., 333
Moody, Christopher J., 376
Nakano, Hirofumi, 361
Nelson, Anthony J., 283
Noguchi, Hiroshi, 261
O'Shea, Paul D., 371
Okamoto, Tadashi, 279
Omar, Abdirahman H. H., 283
Pandey, Ravindra K., 374
Pant, Chandra M., 297
Parra, Margarita, 327
Pinhey, John T., 333
Rao, K. R. Nagaraja, 374
Rasala, Danuta, 225
Roche, Eric G., 333
Romero, Oscar A. Sanchez, 353
Rubiales, Gloria, 327
Sankawa, Ushio, 261
Scarpati, Rachele, 241
Seo, Shujiro, 261
Seto, Haruo, 261
Shah, Pritom, 376
Sheng, Zhi-Chu, 265
Siddiqui, Bina Shaheen, 343
Siddiqui, Salimuzzaman, 343
Smith, Donald C. C., 215
Smith, Thomas A. K., 313, 319
Stoodley, Richard J., 297
Suschitzky, Hans, 283
Suzuki, Hitomi, 289
Takeda, Ken-ichi, 261
Tanimoto, Shigeo, 279
Tsuchiya, Yuko, 235
Undheim, Kjell, 255
Uno, Hidemitsu, 289
Uomori, Atsuko, 261
Urogdi, Laszlo, 225
Varvounis, George, 283
Vidal, Angel, 247
Wakefield, Basil J., 283
Walton, John C., 347
Wang, Shu-Zhong, 361
Warren, Stuart, 303
Wasson, Robert C., 353
Watanabe, Noriko, 289
Whitham, Gordon H., 313, 319
Whiting, Andrew, 297
Williams, David J., 297
Yannakopoulou, Konstantina, 225
Yoshimura, Yohko, 261

NOTE: An asterisk in the heading of each paper indicates the author who is to receive any correspondence.

