

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions II

Physical Organic Chemistry

CONTENTS

- 255 A new approach to ^{13}C chemical shift additivity parameters **Yousif A. Shahab and Haitham A. Al-Wahab**
- 257 Retention indices and basicity of N^1N^1 -dimethyl- N^2 -phenylformamidines. *ortho*-Substituent effect **Ewa Dolecka, Ewa D. Raczynska, and Tadeusz Drapala**
- 261 Apparent dipole moments and molar volumes of β -carbolines and carbazole in dioxane solution **Isidro S. Monzo, Armando Codoñer, Piedad Medina, Amparo Olba, and Rosa Valero**
- 265 A study of the crystal and molecular structures of phenols with only intermolecular hydrogen bonding **Keith Prout, John Fail, Richard M. Jones, Rachael E. Warner, and John C. Emmett**
- 285 Oxidation of benzene to phenols with molecular oxygen promoted by copper(I) chloride **Sotaro Ito, Toshimichi Yamasaki, Hiroshi Okada, Susumu Okino, and Kazuo Sasaki**
- 295 Side-chain nucleophilic reactivity of five-membered heterocyclic rings: base-catalysed reactions of aldehydes with phenyl-acetonitrile **Gaetano Alberghina, M. Emanuela Amato, Salvatore Fisichella, and Danila Pisano**
- 299 An experimental study of the conformational energies of poly(neopentyl glycol succinate) **Evaristo Riande and Julio Guzmán**
- 305 Reaction of SO_4^{2-} with methylated uracils. An electron spin resonance study in aqueous solution **Günter Behrens, Knut Hildenbrand, Dietrich Schulte-Frohlinde, and Janko N. Herak**
- 319 Piezoelectric quartz crystal detection of benzene vapour using chemically modified cyclodextrins **Colin S. I. Lai, Gwilym J. Moody, J. D. Ronald Thomas, David C. Mulligan, J. Fraser Stoddart, and Ryszard Zarzycki**
- 325 The conformational analysis of three derivatives of erythromycin A: (9S)-9-hydroxy-9-deoxyerythromycin A, (9S)-9,11-O-isopropylidene-9-deoxyerythromycin A, and (9S)-erythromycylamine A by nuclear magnetic resonance spectroscopy and molecular modelling **Jeremy R. Everett and John W. Tyler**
- 339 A quantitative measure of solvent solvophobic effect **Michael H. Abraham, Priscilla L. Grellier, and R. Andrew McGill**
- 347 Tautomerism in aromatic hydroxy *N*-heterocyclics in the gas phase by metastable ion mass spectrometry **Michael A. Baldwin and G. John Langley**
- 351 Terpenoid ether formation in superacids **Graham Carr, Christopher Dean, and David Whittaker**
- 355 Kinetics and mechanism of oxidation of thiosemicarbazide in the pure state and in its metal complex by chloramine T, bromamine T, and dichloramine T in acid medium **B. Thimme Gowda and Mrs. R. Vijayalakshmi Rao**
- 363 Single-step methods for calculating activation parameters from raw kinetic data **Nigel J. Bunce, Christine L. Forber, Campbell McInnes, and Jeremy M. Hutson**
- 369 On the electrochemical oxidation of enamines **Wolfgang W. Schoeller, Juergen Niemann, and Paul Rademacher**
- 375 Effect of static pressure on the ultrasonic activation of chemical reactions. Selective oxidation at benzylic carbon in the liquid phase **Giampietro Cum, Raffaele Gallo, Agatino Spadaro, and Giovanni Galli**

- 385 Highly selective aromatic chlorinations. Part 2. The chlorination of substituted phenols, anisoles, anilines, and related compounds with *N*-chloroamines in acidic solution **John R. Lindsay Smith, Linda C. McKeer, and Jonathan M. Taylor**
- 393 Crystallographic characterization of the conformation of the 1-aminocyclohexane-1-carboxylic acid residue in simple derivatives and peptides **Giovanni Valle, Marco Crisma, Claudio Toniolo, Nirupa Sen, Muppalla Sukumar, and Padmanabhan Balaram**
- 399 Intramolecular participation by an amide group in ester hydrolysis **Frank Hibbert and Rowena J. Sellens**
- 403 Collision-induced dissociations of substituted benzyl negative ions in the gas phase. The elimination of C₄H₄ **Graeme J. Currie, John H. Bowie, Ralph A. Massy-Westropp, and Gregory W. Adams**
- 409 The cathodic cleavage of the 4-nitrobenzyloxycarbonyl group from amine derivatives in aprotic conditions **Hernani L. S. Maia, Maria-Jose Medeiros, Maria-Irene Montenegro, and Derek Pletcher**
- 413 Radical cations and anions of 1,2,4,5-tetrazines: an electron spin resonance and cyclic voltammetric study **Hans Fischer, Thomas Müller, Irmgard Umminger, Franz A. Neugebauer, Harish Chandra, and Martyn C. R. Symons**
- 423 Cycloaddition reactions of 2,4-diphenyl-3-methyl-1,3-oxazolium 5-oxide with 4-methylene-4,5-dihydroisoxazoles: ¹H and ¹³C nuclear magnetic resonance stereochemical assignments of the products **Piero Dalla Croce, Concetta La Rosa, Maria Luisa Gelmi, and Marzia Ballabio**

AUTHOR INDEX

- Abraham, Michael H., 339
Adams, Gregory W., 403
Al-Wahab, Haitham A., 255
Alberghina, Gaetano, 295
Amato, M. Emanuela, 295
Balaram, Padmanabhan, 393
Baldwin, Michael A., 347
Ballabio, Marzia, 423
Behrens, Günter, 305
Bowie, John H., 403
Bunce, Nigel J., 363
Carr, Graham, 351
Chandra, Harish, 413
Codoñer, Armando, 261
Crisma, Marco, 393
Cum, Giampietro, 375
Currie, Graeme J., 403
Dalla Croce, Piero, 423
Dean, Christopher, 351
Dolecka, Ewa, 257
Drapała, Tadeusz, 257
Emmett, John C., 265
- Everett, Jeremy R., 325
Fail, John, 265
Fischer, Hans, 413
Fisichella, Salvatore, 295
Forber, Christine L., 363
Galli, Giovanni, 375
Gallo, Raffaele, 375
Gelmi, Maria Luisa, 423
Gowda, B. Thimme, 355
Grellier, Priscilla L., 339
Guzmán, Julio, 299
Herak, Janko N., 305
Hibbert, Frank, 399
Hildenbrand, Knut, 305
Hutson, Jeremy M., 363
Ito, Sotaro, 285
Jones, Richard M., 265
La Rosa, Concetta, 423
Lai, Colin S. I., 319
Langley, G. John, 347
Lindsay Smith, John R., 385
Maia, Hernani L. S., 409
- Massy-Westropp, Ralph A., 403
McGill, R. Andrew, 339
McInnes, Campbell, 363
McKeer, Linda C., 385
Medeiros, Maria-Jose, 409
Medina, Piedad, 261
Montenegro, Maria-Irene, 409
Monzo, Isidro S., 261
Moody, Gwilym J., 319
Müller, Thomas, 413
Mulligan, David C., 319
Neugebauer, Franz A., 413
Niemann, Juergen, 369
Okada, Hiroshi, 285
Okino, Susumu, 285
Olba, Amparo, 261
Pisano, Danila, 295
Pletcher, Derek, 409
Prout, Keith, 265
Raczynska, Ewa D., 257
Rademacher, Paul, 369
Rao, R. Vijayalakshmi, 355
- Riande, Evaristo, 299
Sasaki, Kazuo, 285
Schoeller, Wolfgang W., 369
Schulte-Frohlinde, Dietrich, 305
Sellens, Rowena J., 399
Sen, Nirupa, 393
Shahab, Yousif A., 255
Spadaro, Agatino, 375
Stoddart, J. Fraser, 319
Sukumar, Muppalla, 393
Symons, Martyn C. R., 413
Taylor, Jonathan M., 385
Thomas, J. D. Ronald, 319
Toniolo, Claudio, 393
Tyler, John W., 325
Umminger, Irmgard, 413
Valero, Rosa, 261
Valle, Giovanni, 393
Warner, Rachael E., 265
Whittaker, David, 351
Yamasaki, Toshimichi, 285
Zarzycki, Ryszard, 319

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

