

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions II**Physical Organic Chemistry****CONTENTS**

- 89 The mechanism of thermal elimination. Part 14. Pyrolysis of diacetamide, 2-acetoxypyridine, diacetyl sulphide, and thioacetic acid: possible involvement of enol forms in gas-phase eliminations **Roger Taylor**
- 97 Steric effects on the formation of alkyl radicals and alkyl carbenium ions **Marvin Charton**
- 105 Proximity effects in diaryl derivatives. Part 7. Mechanism of base-catalysed rearrangement of 2-(hydroxyamino)aryl phenyl sulphones to 2-hydroxy-2'-(phenylsulphonyl)azoxybenzenes **Robert J. Cummings, Michael F. Grundon, Anthony C. Knipe, and Adil S. Wasfi**
- 109 Study of non-conjugated bichromophoric systems. Part 3. The photocyclomerization of 9-(1-naphthylmethoxymethyl)-anthracene and 9-(2-furylmethoxymethyl)anthracene. Interest of the $\text{CH}_2-\text{O}-\text{CH}_2$ link **Jean-Pierre Desvergne, Najib Bitit, Alain Castellan, and Henri Bouas-Laurent**
- 115 Hydrogen bond rearrangements in organic solids. Part 2. Cyclodehydration of *o*-acetamidobenzamide **Margaret C. Etter**
- 123 Oxidation by cobalt(III) acetate. Part 5. Kinetics and mechanism of the oxidative cleavage of hydrobenzoins **Takashi Morimoto and Masao Hirano**
- 127 A single crystal electron spin resonance study of a nitroxide radical exhibiting hyperfine coupling with a β -proton **The'o Berclaz, Michel Geoffroy, Edwin A. C. Lucken, and Jean M. J. Tronchet**
- 131 Control of the 'extended' E1cB mechanism of acyl group transfer in activated esters of acrylic acids **Kenneth T. Douglas and Andrew Williams**
- 135 Unstable intermediates. Part 205. Radical cations of pyrrole, furan, and thiophen derivatives: an electron spin resonance study **D. N. Ramakrishna Rao and Martyn C. R. Symons**
- 139 Reactions of oxygenated radicals in the gas phase. Part 12. The reactions of isopropylperoxy radicals and alkenes **Mohammed I. Sway and David J. Waddington**
- 145 An electron spin resonance study of the fluorene radical anion in the presence of 18-crown-6 and dicyclohexyl-18-crown-6 **E. John Rothwell and Brian J. Tabner**
- 149 Structures of vicinal polyketones **Menahem Kaftory and Mordecai B. Rubin**
- 155 Stereochemistry of the formation of 4-alkoxyimino-5,6-dihydro-6-alkoxyaminopyrimidin-2(1*H*)-ones from cytosines and hydroxylamines **Paul J. Atkins and C. Dennis Hall**
- 161 Reactivities of free ions and crown ether-complexed ion pairs in the protonation of fluorensodium by 9-methyl-fluorene **Kam-Han Wong and Johannes Smid**
- 165 Nitrogen bridgehead compounds. Part 28. Isomerism of 9-arylaminomethylene-6,7,8,9-tetrahydro-4-oxo-4*H*-pyrido-[1,2-*a*]pyrimidines **Gábor Tóth, Áron Szöllösy, Benjamin Podányi, István Hermecz, Ágnes Horváth, Zoltán Mészáros, and István Bitter**
- 171 Solute-solute interaction in liquid crystal solvents: a nuclear magnetic resonance study of pyridine-iodine molecular complex in the nematic phase **Donata Catalano, Carlo Alberto Veracini, Pier Luigi Barili, and Marcello Longeri**

- 175 Electrochemical oxidation of 1-phenylpyrazolidin-3-ones. Part 2. 1-Aryl-4,4-dimethylpyrazolidin-3-ones **Anthony J. Bellamy, David I. Innes, and Peter J. Hillson**
- 179 Electrochemical oxidation of 1-phenylpyrazolidin-3-ones. Part 3. Reaction mechanism **Anthony J. Bellamy, David I. Innes, and Peter J. Hillson**
- 183 Cyclic voltammetry of azopyridines, phenylazopyridines, and azobenzene in acetonitrile and dimethylformamide **Anthony J. Bellamy, Iain S. MacKirdy, and Catriona E. Niven**
- 187 Photolysis of alkylcobalamins and coenzyme B₁₂: an electron spin resonance study **D. N. Ramakrishna Rao and Martyn C. R. Symons**
- 191 Electron spin resonance data for mono- and di-anions of *m*-dinitrobenzene: radiation-induced addition of two electrons at 77 K **Martyn C. R. Symons, S. Paul Maj, David E. Pratt, and Lynn Portwood**
- 197 Properties of the liquid crystals formed by certain 2-*p*-alkoxybenzylideneamino-9,10-dihydrophenanthrenes **David J. Byron, David J. Harwood, and Robert C. Wilson**
- 201 A ¹H nuclear magnetic resonance study of the protonation of methacrylamide and of the tautomerism of its cation **Milica Liler and Charles M. M. Thwaites**
- 205 The influence of crown ether on cation migration processes. Part 3. The 5,12-dihydrotetracene radical anion with lithium or potassium as counterion **Alan J. Burke and Brian J. Tabner**
- 209 Conformational analysis of imidoyl radicals by electron spin resonance spectroscopy **Alwyn G. Davies, Jean-Yves Nedelec, and Roger Sutcliffe**

AUTHOR INDEX

- Atkins, P. J., 155
Barili, P. L., 171
Bellamy, A. J., 175, 179, 183
Berclaz, T., 127
Bitit, N., 109
Bitter, I., 165
Bouas-Laurent, H., 109
Burke, A. J., 205
Byron, D. J., 197
Castellan, A., 109
Catalano, D., 171
Charton, M., 97
Cummings, R. J., 105
Davies, A. G., 209
Desvergne, J-P., 109
- Douglas, K. T., 131
Etter, M. C., 115
Geoffroy, M., 127
Grundon, M. F., 105
Hall, C. D., 155
Harwood, D. J., 197
Hermecz, I., 165
Hillson, P. J., 175, 179
Hirano, M., 123
Horváth, Á., 165
Innes, D. I., 175, 179
Kaftory, M., 149
Knipe, A. C., 105
Liler, M., 201
Longeri, M., 171
- Lucken, E. A. C., 127
MacKirdy, I. S., 183
Maj, S. P., 191
Mészáros, Z., 165
Morimoto, T., 123
Nedelec, J-Y., 209
Niven, C. E., 183
Podányi, B., 165
Portwood, L., 191
Pratt, D. E., 191
Rao, D. N. R., 135, 187
Rothwell, E. J., 145
Rubin, M. B., 149
Smid, J., 161
Sutcliffe, R., 209
- Sway, M. I., 139
Symons, M. C. R., 135, 187,
191
Szöllösy, Á., 165
Tabner, B. J., 145, 205
Taylor, R., 89
Thwaites, C. M. M., 201
Tóth, G., 165
Tronchet, J. M. J., 127
Veracini, C. A., 171
Waddington, D. J., 139
Wasfi, A. S., 105^{*}
Williams, A., 131
Wilson, R. C., 197
Wong, K-H., 161

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

