

JOURNAL
OF
THE CHEMICAL SOCIETY

PERKIN TRANSACTIONS II
Physical Organic Chemistry

CONTENTS

	PAGE
Crystal structure of corynoline <i>p</i> -bromobenzoate By TETSUJI KAMETANI, TOSHIO HONDA, MASATAKA IHARA, HIROTAKA SHIMANOCHI, and YOSHIO SASADA	1605
A study of the helix-coil transition of ι -carrageenan segments by light scattering and membrane osmometry By ROBERT A. JONES, EDWIN J. STAPLES, and ALISTAIR PENMAN	1608
Furazans and furazan oxides. Part IV. The structures and tautomerism of some unsymmetrically substituted furoxans By A. GASCO and A. J. BOULTON.	1613
Directive effects in benzylic hydrogen atom abstraction. Part V. Halogenation of benzyl chlorides and α -substituted toluenes By KHENG H. LEE and T. O. TEO	1617
Kinetic electron spin resonance spectroscopy. Part III. Proton exchange rates for ketyl radicals in organic solvents By PETER B. AYS COUGH and ROGER C. SEALY	1620
Quenching of acetone fluorescence by inorganic anions By ANTHONY HARRIMAN and BERNARD W. ROCKETT	1624
Studies on the hydroxylation of sodium 9,10-dihydro-9,10-dioxoanthracene- α -sulphonates By JOHN O. MORLEY	1626
Electrophilic aromatic reactivities <i>via</i> pyrolysis of 1-arylethyl acetates. Part IX. The effect of the trimethylsilyl substituent By ERNEST GLYDE and ROGER TAYLOR	1632
Vapour phase chemistry of arenes. Part II. Thermolysis of chlorobenzene and reactions with aryl radicals and chlorine and hydrogen atoms at 500° By ROBERT LOUW, JASPER W. ROTHUIZEN, and RONALD C. C. WEGMAN	1635
Anodic oxidation of amines. Part III. Cyclic voltammetry and controlled potential electrolysis of 4-dimethylaminoantipyrine (4-dimethylamino-2,3-dimethyl-1-phenyl- Δ^3 -pyrazolin-5-one) in acetonitrile By HIROTERU SAYO and MASAICHIRO MASUI	1640
Carbonium ion rearrangements: competitive migration of the electronically contrasted groups methyl and diphenylphosphinyl By DAVID HOWELLS and STUART WARREN	1645
Conformations of peptides in solution by nuclear magnetic resonance spectroscopy. Part I. Application of nuclear magnetic double resonance spectroscopy to the determination of <i>cis</i> - and <i>trans</i> -conformations of peptide bonds By DAVID B. DAVIES and MD. ABU KHALED.	1651
Free radical addition of isobutyric acid to α,ω -diolefins. A new route to $\alpha,\alpha,\alpha',\alpha'$ -tetramethylalkanedioic acids By MICHAEL A. M. BRADNEY, ALAN D. FORBES, and JOHN WOOD	1655

	PAGE
Anisotropic effects in α -substituted methoxystilbenes By KEITH W. BLAKE and BRIAN JAQUES	1660
Electroreduction and related studies on 2-aminoacrylic acid derivatives. Part I. Electroreactivity of 2-acetamidocinnamic acid By DUANE N. SCHLUTER, GLEB MAMANTOV, and JOHN R. VERCELLOTTI	1663
Electroreduction and related studies on 2-aminoacrylic acid derivatives. Part II. Electroreactivity of 2-acetamidoacrylic acid By DUANE N. SCHLUTER, GLEB MAMANTOV, and JOHN R. VERCELLOTTI	1670
The kinetics and mechanism of the electrophilic substitution of heteroaromatic compounds. Part XXXIV. The hydrogen-exchange rates of methylpyrazoles By SERGIO CLEMENTI, PAUL P. FORSYTHE, C. DAVID JOHNSON, and ALAN R. KATRITZKY	1675
Intramolecular general acid catalysis in the halogenation of ketones By RONALD P. BELL and MICHAEL I. PAGE	1681
Mesoionic compounds. Part III. Acid-catalysed hydrolysis and protonation behaviour of 4,5-diphenylisodnone By ALAN J. BUGLASS and JOHN G. TILLET	1687
High resolution nuclear magnetic resonance studies of the conformation of luteinizing hormone releasing hormone (LH-RH) and its component peptides By PHILLIPUS L. WESSELS, JAMES FEENEY, HARRY GREGORY, and JAMES J. GORMLEY	1691
The solvolytic fragmentation of trialkoxy-2-halogenoethylsilanes By MAURICE J. GREGORY	1699
On the use of the electron spin resonance-flow technique in the study of short-lived radicals By DAN MEISEL, GIDEON CZAPSKI, and AMRAM SAMUNI	1702
The competing mechanisms of substitution, hydrolysis, and cyclization of 1-chloro- and 1,4-dichloro-2,3-diazabuta-1,3-dienes By JAMES CRONIN, ANTHONY F. HEGARTY, PATRICK A. CASHELL, and FRANCIS L. SCOTT	1708
Elimination-addition mechanism for the hydrolysis of carbamates. Trapping of an isocyanate intermediate by an <i>o</i> -amino-group By ANTHONY F. HEGARTY and LEO N. FROST	1719

INDEX OF AUTHORS' NAMES

- Ayscough, P. B., and Sealy, R. C., 1620
Bell, R. P., and Page, M. I., 1681
Blake, K. W., and Jaques, B., 1660
Boulton, A. J. See Gasco, A., 1613
Bradney, M. A. M., Forbes, A. D., and Wood, J., 1655
Burglass, A. J., and Tillett, J. G., 1687
Cashell, P. A. See Cronin, J., 1708
Clementi, S., Forsythe, P. P., Johnson, C. D., and Katritzky, A. R., 1675
Cronin, J., Hegarty, A. F., Cashell, P. A., and Scott, F. L., 1708
Czapski, G. See Meisel, D., 1702
Davies, D. B., and Khaled, M. A., 1651
Feeney, J. See Wessels, P. L., 1691
Forbes, A. D. See Bradney, M. A. M., 1655
Forsythe, P. P. See Clementi, S., 1675
Frost, L. N. See Hegarty, A. F., 1719
Gasco, A., and Boulton, A. J., 1613
Glyde, E., and Taylor, R., 1632
Gormley, J. J. See Wessels, P. L., 1691
Gregory, H. See Wessels, P. L., 1691
Gregory, M. J., 1699
Harriman, A., and Rockett, B. W., 1624
Hegarty, A. F., and Frost, L. N., 1719
Hegarty, A. F. See also Cronin, J., 1708
Honda, T. See Kametani, T., 1605
Howells, D., and Warren, S., 1645
Ihara, M. See Kametani, T., 1605
Jaques, B. See Blake, K. W., 1660
Johnson, C. D. See Clementi, S., 1675
Jones, R. A., Staples, E. J., and Penman, A., 1608
Kametani, T., Honda, T., Ihara, M., Shimanouchi, H., and Sasada, Y., 1605
Katritzky, A. R. See Clementi, S., 1675
Khaled, M. A. See Davies, D. B., 1651
Lee, K. H., and Teo, T. O., 1617
Louw, R., Rothuizen, J. W., and Wegman, R. C. C., 1635
Mamantov, G. See Schluter, D. N., 1663, 1670
Masui, M. See Sayo, H., 1640
Meisel, D., Czapski, G., and Samuni, A., 1702
Morley, J. O., 1626
Page, M. I. See Bell, R. P., 1681
Penman, A. See Jones, R. A., 1608
Rockett, B. W. See Harriman, A., 1624
Rothuizen, J. W. See Louw, R., 1635
Samuni, A. See Meisel, D., 1702
Sasada, Y. See Kametani, T., 1605
Sayo, H., and Masui, M., 1640
Schluter, D. N., Mamantov, G., and Vercellotti, J. R., 1663, 1670
Scott, F. L. See Cronin, J., 1708
Sealy, R. C. See Ayscough, P. B., 1620
Shimanouchi, H. See Kametani, T., 1605
Staples, E. J. See Jones, R. A., 1608
Taylor, R. See Glyde, E., 1632
Teo, T. O. See Lee, K. H., 1617
Tillett, J. G. See Burglass, A. J., 1687
Vercellotti, J. R. See Schluter, D. N., 1663, 1670
Warren, S. See Howells, D., 1645
Wegman, R. C. C. See Louw, R., 1635
Wessels, P. L., Feeney, J., Gregory, H., and Gormley, J. J., 1691
Wood, J. See Bradney, M. A. M., 1655

* The author to whom correspondence should be addressed is indicated by an asterisk after his name in the heading of the Paper.

