

JOURNAL  
OF  
THE CHEMICAL SOCIETY

---

PERKIN TRANSACTIONS II  
Physical Organic Chemistry

CONTENTS

	PAGE
Conformational studies on a 1,2,3,4,5-pentachloro-8-phenyltetralin By MARIA C. AVERSA, GABRIELLA BOMBIERI, GIUSEPPE BRUNO, GIAMPIETRO CUM, PLACIDO GIANNETTO, and GIOVANNI ROMEO . . . . .	1213
A molecular orbital interpretation of the structure of some halogenoalkyl radicals By LLUIS M. MOLINO, JOSEP M. POBLET, and ENRIC CANADELL . . . . .	1217
Protonation of some 3-, 4-, and 5-substituted thiophen-2-carboxamides By GAETANO ALBERGHINA, SALVATORE FISICHELLA, SALVATORE OCCHIPINTI, GIOVANNI CONSIGLIO, DOMENICO SPINELLI, and RENATO NOTO . . . . .	1223
Pterins. Part 9. The structure of quinonoid dihydropterins [2-amino-7,8-dihydropteridin-4(6 <i>H</i> )-ones] By WILFRED L. F. ARMAREGO and PAUL WARING . . . . .	1227
The crystal structure of the amino-terminal pentapeptide of suzukacillin. Occurrence of a four-fold peptide helix By ATHAPPILLY K. FRANCIS, MOHAMMED IQBAL, PADMANABHAN BALARAM, and MAMANNAMANA VIJAYAN . . . . .	1235
The isomerisation of some <i>ortho</i> -substituted nitrobenzenes: a structure correlation analysis By MICHAEL G. HUTCHINGS . . . . .	1241
An electron spin resonance study of trialkylsilyl radical addition to alkyl isocyanates By JEHAN A. BABAN, MALCOLM D. COOK, and BRIAN P. ROBERTS . . . . .	1247
Reaction of a highly spiro-activated electrophilic cyclopropane with pyridines. The substituent effect on the reaction rate By KATSUO OHKATA, TAKASHI NAGAI, AKIRA TAMARU, MASA-AKI NANDATE, and TERUKIYO HANAFUSA . . . . .	1255
Photocontrol of micellar catalyses By SEIJI SHINKAI, KATSUTA MATSUO, AKIKO HARADA, and OSAMU MANABE . . . . .	1261
Silyl halide radical anions By TIMOTHY CLARK . . . . .	1267
Indirect detection of carbenes by electron spin resonance: triplet trapping By ALEXANDER R. FORRESTER and JOHN S. SADD . . . . .	1273
Conformational study of a dinucleoside monophosphate in aqueous solution using the lanthanide probe method By CARLOS F. G. C. GERALDES and ROBERT J. P. WILLIAMS . . . . .	1279
The conformation of thioanisoles studied using nuclear magnetic resonance spectra of liquid crystalline solutions By JAMES W. EMSLEY, MARCELLO LONGERI, CARLO ALBERTO VERACINI, DONATA CATALANO, and GIAN FRANCO PEDULLI . . . . .	1289

	PAGE
Phenylhydrazone derivatives of dimedone: hydrogen bonding, spectral ( $^{13}\text{C}$ and $^1\text{H}$ nuclear magnetic resonance) and conformational considerations. Crystal and molecular structures of 5,5-dimethylcyclohexane-1,2,3-trione 2-(4-methylphenylhydrazone) (1) and 5,5-dimethylcyclohexane-1,2,3-trione 2-(4-nitrophenylhydrazone) (2) By MICHAEL G. B. DREW, (the late) BRIAN VICKERY, and GERALD R. WILLEY . . . . .	1297
Kinetics of reaction of picryl bromide with substituted biphenyl-4-carboxylate ions By PONNAMBALANADAR ANANTHAKRISHNANADAR and NAGARATNAM KANNAN . . . . .	1305
The kinetics and mechanism of the cyclisation of some 2'-hydroxychalcones to flavanones in basic aqueous solution By K. BARRY OLD and LYNDSEY MAIN . . . . .	1309
The mechanism of the gas-phase pyrolysis of esters. Part 13. The very strong activating effects of $\beta$ -trialkyl-metal groups By COLIN EABORN, FOAD M. S. MAHMOUD, and ROGER TAYLOR . . . . .	1313

## INDEX OF AUTHORS' NAMES

- ALBERGHINA, G., Fisichella, S., Occhipinti, S., Consiglio, G., Spinelli, D., and Noto, R., 1223  
Ananthkrishnanadar, P., and Kannan, N., 1305  
Armarego, W. L. F., and Waring, P., 1227  
Aversa, M. C., Bombieri, G., Bruno, G., Cum, G., Giannetto, P., and Romeo, G., 1213  
Baban, J. A., Cook, M. D., and Roberts, B. P., 1247  
Balaram, P. See Francis, A. K., 1235  
Bombieri, G. See Aversa, M. C., 1213  
Bruno, G. See Aversa, M. C., 1213  
Canadell, E. See Molino, L. M., 1217  
Catalano, D. See Emsley, J. W., 1289  
Clark, T., 1267  
Consiglio, G. See Alberghina, G., 1223  
Cook, M. D. See Baban, J. A., 1247  
Cum, G. See Aversa, M. C., 1213  
Drew, M. G. B., Vickery, B., and Willey, G. R., 1297  
Eaborn, C., Mahmoud, F. M. S., and Taylor, R., 1313  
Emsley, J. W., Longeri, M., Veracini, C. A., Catalano, D., and Pedulli, G. F., 1289  
Fisichella, S. See Alberghina, G., 1223  
Forrester, A. R., and Sadd, J. S., 1273  
Francis, A. K., Iqbal, M., Balaram, P., and Vijayan, M., 1235  
Geraldès, C. F. G. C., and Williams, R. J. P., 1279  
Giannetto, P. See Aversa, M. C., 1213  
Hanafusa, T. See Ohkata, K., 1255  
Harada, A. See Shinkai, S., 1261  
Hutchings, M. G., 1241  
Iqbal, M. See Francis, A. K., 1235  
Kannan, N. See Ananthkrishnanadar, P., 1305  
Longeri, M. See Emsley, J. W., 1289  
Mahmoud, F. M. S. See Eaborn, C., 1313  
Main, L. See Old, K. B., 1309  
Manabe, O. See Shinkai, S., 1261  
Matsuo, K. See Shinkai, S., 1261  
Molino, L. M., Poblet, J. M., and Canadell, E., 1217  
Nagai, T. See Ohkata, K., 1255  
Nandate, M. See Ohkata, K., 1255  
Noto, R. See Alberghina, G., 1223  
Occhipinti, S. See Alberghina, G., 1223  
Ohkata, K., Nagai, T., Tamaru, A., Nandate, M., and Hanafusa, T., 1255  
Old, K. B., and Main, L., 1309  
Pedulli, G. F. See Emsley, J. W., 1289  
Poblet, J. M. See Molino, L. M., 1217  
Roberts, B. P. See Baban, J. A., 1247  
Romeo, G. See Aversa, M. C., 1213  
Sadd, J. S. See Forrester, A. R., 1273  
Shinkai, S., Matsuo, K., Harada, A., and Manabe, O., 1261  
Spinelli, D. See Alberghina, G., 1223  
Tamaru, A. See Ohkata, K., 1255  
Taylor, R. See Eaborn, C., 1313  
Veracini, C. A. See Emsley, J. W., 1289  
Vickery, B. See Drew, M. G. B., 1297  
Vijayan, M. See Francis, A. K., 1235  
Waring, P. See Armarego, W. L. F., 1227  
Willey, G. R. See Drew, M. G. B., 1297  
Williams, R. J. P. See Geraldès, C. F. G. C., 1279

---

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

