ISSN 0300-9580 JCPKBH(11) 2241–2560(1996)

JOURNAL OF THE CHEMICAL SOCIETY

PERKIN 2 TRANSACTIONS

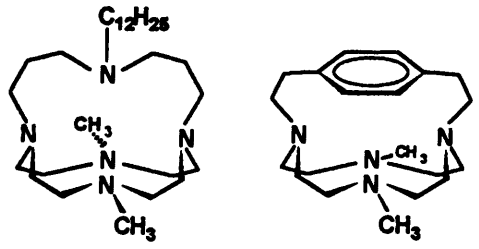
# Physical Organic Chemistry

CONTENTS

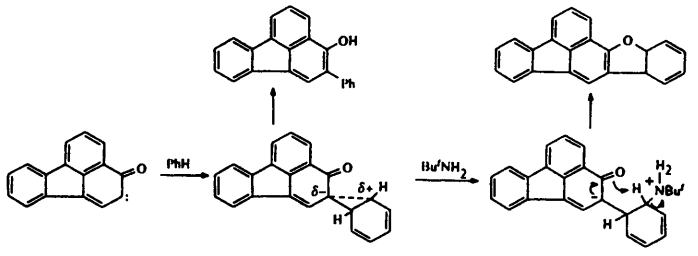
## Communications



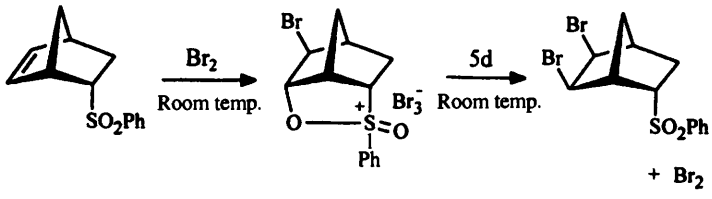
## Articles



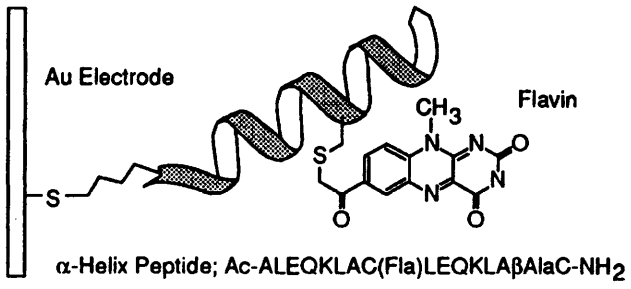


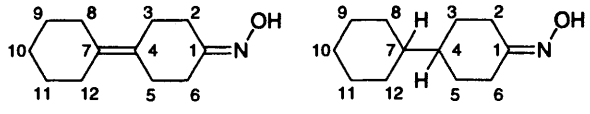




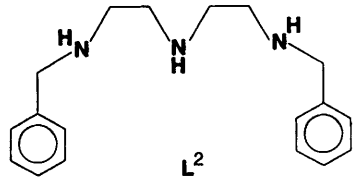



**1a** **3a**

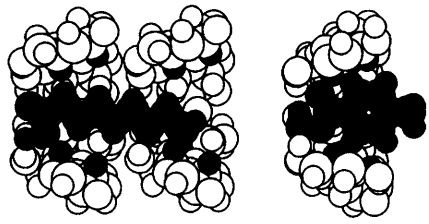
Long-range substituent effects on $^{13}C$ NMR chemical shifts



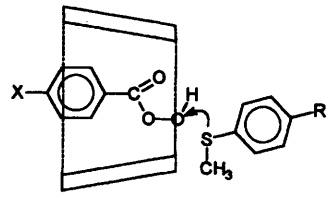


$L^2$

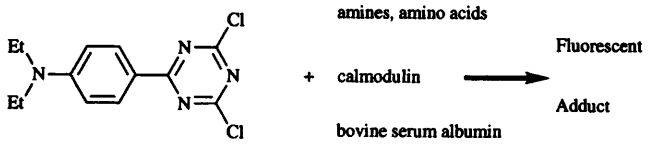
Acid–base behaviour of dibenzylated polyamines has been studied by potentiometry, NMR, UV–VIS and steady-state fluorescence emission and adduct formation with hexacyanocobaltate(III) by steady-state fluorescence emission





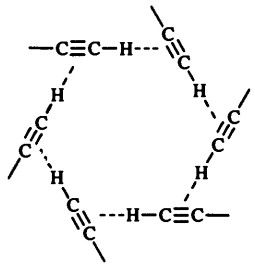




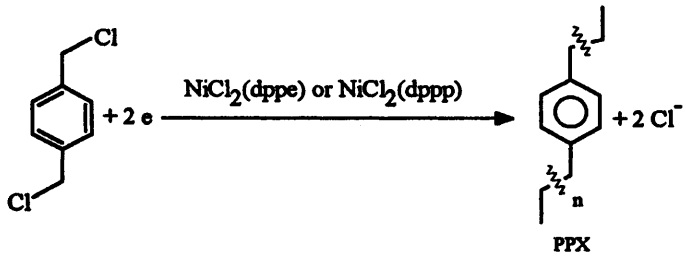




Hydrophobic interactions strongly influence the reaction kinetics and the positional selectivity of coupling to the amino group(s) in the substrate

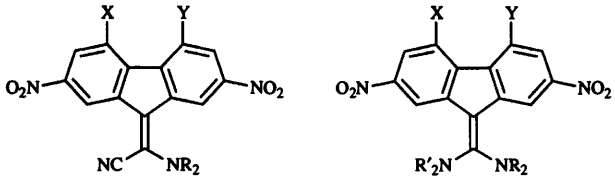









2 3

Intramolecular charge-transfer in compounds **2** and **3** has been studied in solution (NMR and UV–VIS spectroscopy, and cyclic voltammetry) and in the solid state, by an X-ray crystal structure analysis of a derivative of **2**

# AUTHOR INDEX





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

# Forthcoming Articles in *Perkin Transactions 2*

Structural requirements of non-peptide neurotensin receptor antagonists
**L. Quéré, R. Boigegrain, F. Jeanjean, D. Gully, G. Evrard** and **F. Durant**

NMR study of 9,9'-(alkane-α,ω-diyl)diadenine
**T. Itahara**

Simultaneous electrophile–nucleophile Cl···π interactions stabilizing solid state inclusions: a new tool for supramolecular crystal engineering
**I. Csöregh, E. Weber, T. Hens, M. Czugler**

The effect of topologically controlled coulombic interactions on the regioselectivity of the reductive cleavage of alkl phenyl ethers
**U. Azzena, F. Casado, P. Fois, I. Gallardo, L. Pisano, J. Marquet** and **G. Melloni**

Charged cyclophanes with extended conjugation: the effect of the cyclophane hub on the charge distribution
**E. Shabtai, M. Rabinovitz, B. König, B. Knieriem** and **A. de Meijere**

$^{13}C$ NMR spectroscopic comparison of sterically stabilized *meta-* and *para*-substituted *o*-tolydi(adamant-1-yl)methyl cations with conjugatively stabilized benzyl cations
**J.S. Lomas**

Lithiation of diethyl trichloromethyl phosphonate and the transformations of the α-lithiated derivative
**W. Perlikowska, A.M. Modro, T.A. Modro, M.J. Mphahlele**

The first examples of persistent dimethyldihydropyrenium cations: reversal of ring current effects
**K.K. Laali, S. Bolvig, T.J. Raeker** and **R.H. Mitchell**

The influence of common cation $BH^+$ on the products of reactions between C-acids and strong guanidine bases in acetonitrile solvent
**W. Gałezowski, M. Stańczyk, I. Grześkowiak** and **A Jarczewski**

Conformational behaviour of hydroxamic acids: *ab initio* and structural studies
**D.A. Brown, R.A. Coogan, N.J. Fitzpatrick, W.K. Glass, D.E. Abukshima, L. Shiels, M. Ahlgrén, K. Smolander, T.T. Pakkanen, M. Peräkylä**

Reactions of phosphine with hexacyclo[6.6.0.$0^{2,6}$.$0^{3,13}$.$0^{4,11}$.$0^{5,9}$]tetradecan-10-one derivatives
**T.J. Chow, L.-P. Li, V.Y.R. Lee, K.-J. Lin** and **C.-Y. Chen**

Conformational variability in short acyclic peptides. Stabilization of multiple β-turn structures in organic solvents
**S.K. Awasthi, S.Raghothama** and **P. Balaram**

On the mechanism of succinyl transfer from aryl enolsuccinates to enolates of arylketones: addition–elimination *vs.*alkoxide-assisted retro-ene reaction
**W.V. Murray, I.J. Turchi** and **J.C. Bussolari**

Hexa Schiff-base cryptands: solution thermodynamic and X-ray crystallographic studies of main group, transition and heavy metal ions complexes
**R. Abidi, F. Arnaud-Neu, M.G.B. Drew, S. Lahély, D. Marrs, J. Nelson** and **M.-J. Schwing-Weill**

Aryl substituent effects on the thermal interconversion of cylcobutenediones and 1,2-bisketenes
**R. Liu** and **T.T. Tidwell**

Structural and vibrational analysis of indole by density functional and hybrid Hartree–Fock/density functional methods
**S.E. Walden** and **R.A. Wheeler**

Catalysis of the enolization of indan-2-one by cyclodextrins in aqueous solution
**O.S. Tee** and **R.A. Donga**

X-Ray and quantum chemical studies of strained phenanthrenes
**S. Grimme, I. Pischel, M. Nieger** and **F. Vögtle**