

Graphical Abstracts

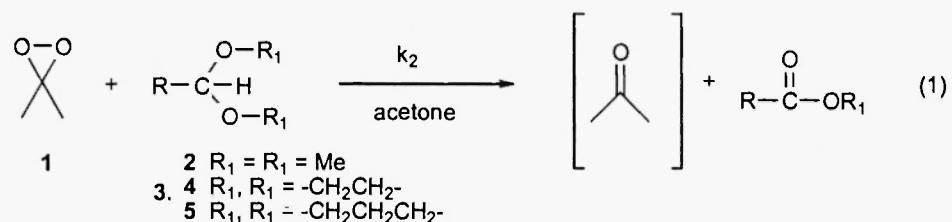
OXIDATION OF ACETALS BY DIMETHYLDIOXIRANE

A.L. Baumstark,* Franci Kovac and Pedro C. Vasquez

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Heterocycl. Commun. 8 (2002) 9-12

Kinetic data (k_2 's, LFER and activation parameters) for the oxidation of a series of acetals by dimethyldioxirane to the corresponding esters in dried acetone are reported; the results are consistent with either a H-atom abstraction or direct insertion mechanism.



Heterocycl. Commun. 8 (2002) 13-18

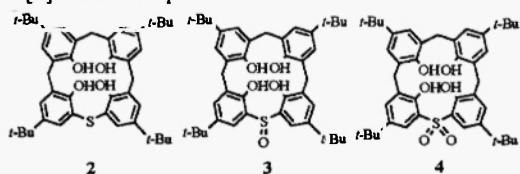
Synthesis and Conformational Behavior of Sulfanyl- or Sulfonyl-bridge Containing

p-tert-Butylcalix[4]arenes

Daisuke Watanabe, Toshio Ito, Kazuaki Ito, and Yoshihiro Ohba*

Department of Chemistry and Chemical Engineering, Faculty of Engineering, Yamagata University, Yonezawa 992-8510, Japan

Calix[4]arene derivatives incorporating the sulfanyl or sulfone moiety as bridge were synthesized by the oxidation of the monothiocalix[4]arene. Direct information concerning dynamic inversion behavior of monosulfanyl- or monosulfonylcalix[4]arene are reported.



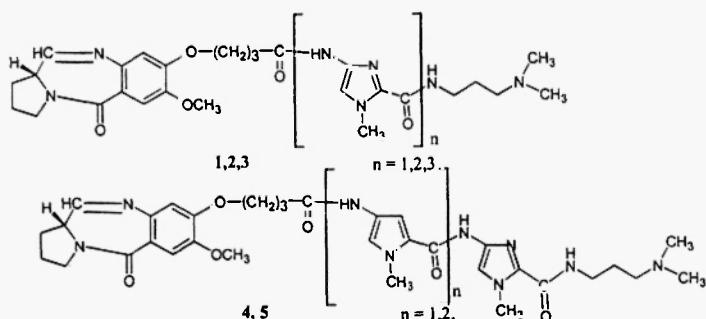
Heterocycl. Commun. 8 (2002) 19-26

Design and Synthesis of Novel Pyrrolo[2,1-c][1,4]benzodiazepine-Imidazole Containing Polyamide Conjugates

Rohtash Kumar, B.S.Narayan Reddy and J.William Lown*

Department of Chemistry, University of Alberta, Edmonton, AB, Canada, T6G 2G2

A series of novel pyrrolo[2,1-c][1,4]benzodiazepine (PBD) - polyamides conjugates (1-5) containing imidazole units was synthesized as DNA minor groove binding agents.

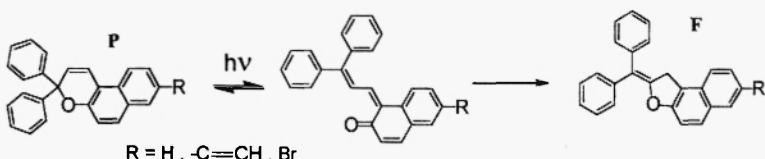


PHOTOCHEMICAL REACTIVITY OF 3H-NAPHTHO[2,1-b]PYRANS : AN EXAMPLE OF PHOTOINDUCED ISOMERISATION

Serge Coen ^{*}, Nicoleta Lehadus, Corinne Moustrou, Andre Samat, Robert Guglielmetti

LCMOM, UMR CNRS 6114, Universite de la Mediterranee, Faculte des Sciences de Luminy, Case 901, 163 Avenue de Luminy, F-13288 Marseille Cedex 9, France

UV irradiation of 3,3-diphenyl-3H-naphtho[2,1-b]pyrans induces the pyranic ring cleavage and a thermodynamic equilibrium between the pyranic and open forms; recyclisation leads either to the starting pyranic or to a furanic compound. The influence of a solid or liquid matrix is discussed.



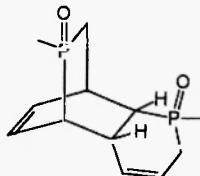
NOVEL BRIDGED P-HETEROCYCLES FROM 1,2-DIHYDROPHOSPHININE 1-OXIDES

György Keglevich,^{**} János Kovacs,^a Krisztina Ludanyi^b and László Toke^c

^a Department of Organic Chemical Technology, Budapest University of Technology and Economics, 1521 Budapest, Hungary

^b Hungarian Academy of Sciences, Chemical Research Center, 1525 Budapest, Hungary

^c Research Group of the Hungarian Academy of Sciences at the Department of Organic Chemical Technology, Budapest University of Technology and Economics, 1521 Budapest, Hungary.



SYNTHESIS AND STEREOCHEMISTRY OF SOME NEW 1,3-DIOXANE DERIVATIVES OBTAINED FROM 1,3-BENZENEDICARBOALDEHYDE

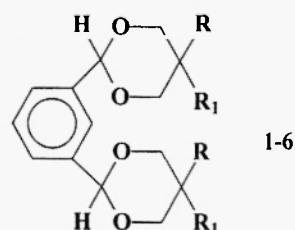
M. Pop^a, I. Grosu^a, G. Plé^b, S. Mager^a, L. Muntean^a, D. Marginean^c and N. Dinca^d

^{a,c} "Babes-Bolyai" University, Organic Chemistry Department and CSOFSTM^a, Inorganic Chemistry Department^c, 11 Arany Janos str., RO-3400, Cluj-Napoca, Romania

^b Université de Rouen, IRCOF, UMR-6014, Faculte des Sciences de Rouen, 76821 Mont Saint Aignan, Cedex, France

^d "Aurel Vlaicu" University Arad, 81 Revolutiei b-l, Arad, RO-2900, Romania

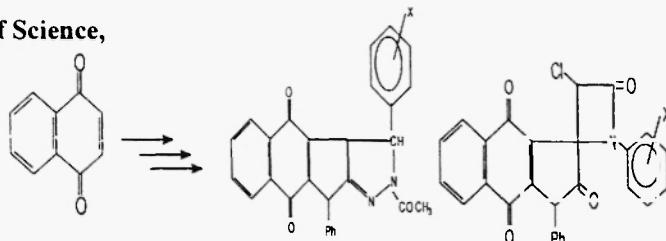
The synthesis and the stereochemistry of new 1,3-dioxane derivatives obtained from 1,3-benzeneddicarboxaldehyde is reported



SYNTHESIS AND BIOLOGICAL ACTIVITY OF NEW SELECTED DIFFERENT HETEROCYCLIC NITROGEN COMPOUNDS INCORPORATING 1,4-NAPHTHQUINONE

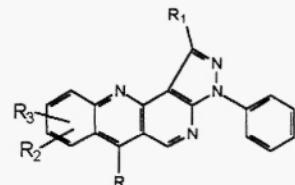
Ali Kamel Khalafallah,
Department of Chemistry, Aswan Faculty of Science,
Aswan, Egypt.

New fused and spiro heterocyclic compounds were Obtained starting from 1,4-naphthquinone.



NEW TETRACYCLIC HETEROAROMATIC RING SYSTEM 3H-BENZO[*b*]PYRAZOLO[3,4-*h*]-1,6-NAPHTHYRIDINES

Alexandre Reis de Azevedo, Izabel C.P.P. Frugulheti, Misbahul Ain Khan and Samia Khakwani, Alice M. R. Bernardino. Universidade Federal Fluminense, Instituto de Química, Departamento de Química Orgânica, Outeiro de S. João Batista, s/nº, Centro, Niterói. CEP 24020-150, Rio de Janeiro, Brazil



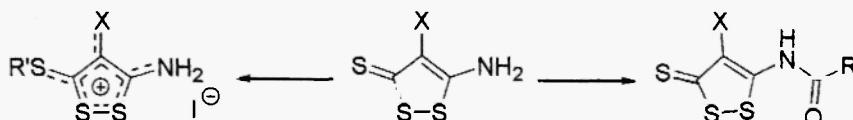
Various derivatives of the tetracyclic ring system 3H-benzo[*b*]pyrazolo[3,4-*h*]-1,6-naphthyridines were prepared from 4-anilino-1*H*-pyrazolo[3,4-*b*]pyridine-5-carboxylic acids. ¹H NMR spectra of derivatives were recorded.

Regioselectivity of electrophilic attacks to 5-amino-3-thioxo-3*H*-1,2-dithiole-4-carboxylic acid functional derivatives. Elucidation of product structures.

Richard Čmelík,^a Jaromír Marek^b and Pavel Pazdera^{a*}

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^bDepartment of Inorganic Chemistry, Masaryk University, 611 37 Brno, The Czech Republic



N-Acylated and *S*-alkylated derivatives of title substrate were confirmed by IR, ¹H, ¹³C NMR spectroscopy and X-ray structural analysis.

SYNTHESIS OF 1-VINYL 1,2,3-TRIAZOLE DERIVATIVES

Kadir Dabak* and Ahmet Akar
Istanbul Technical University, Faculty of Sciences, Department of Chemistry,
Maslak 80626 Istanbul-Turkey.

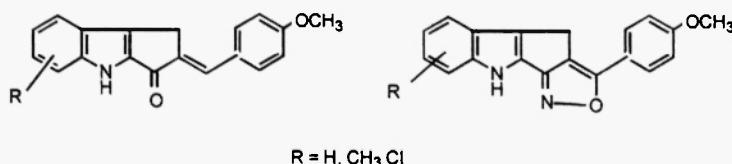
Abstract:

α -Diazo- β -oxoaldehyde derivatives were condensed with 2-bromoethyl amine to yield 1-bromoethyl-4-acyl-1*H*-1,2,3-triazole derivatives in moderate-to-good yields. Two of these triazoles were converted to their 1-vinyl derivatives by reacting with a base.

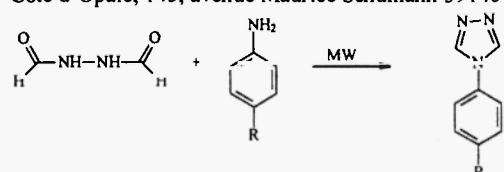
TETRACYCLIC COMPOUNDS FROM CYCLOPENT[*b*]INDOLES. SYNTHESIS OF ISOXAZOLO[3',4':5,4]CYCLOPENT[*b*]INDOLES.

V. SANGEETHA AND K. J. RAJENDRA PRASAD*

Department of chemistry
Bharathiar University
Coimbatore – 641046. India

AN EFFICIENT SYNTHESIS OF 4-ARYL-4*H*-[1,2,4]TRIAZOLES
UNDER MICROWAVE IRRADIATION IN DRY MEDIA

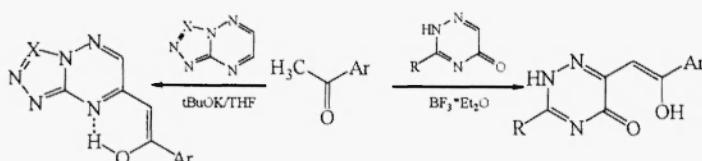
P. Woisel*, F. Cazier, G. Surpateanu, V. Baudel, V. Boursier
Laboratoire de Synthèse Organique et Environnement, EA2599, MREID, Université du Littoral-Côte d'Opale, 145, avenue Maurice Schumann 59140 Dunkerque



A solvent free synthesis of 4-aryl-4*H*-[1,2,4]triazoles under microwave irradiation.

S_N^{II} -REACTIONS OF 1,2,4-TRIAZINES DERIVATIVES WITH ACETOPHENONES

Gennady L. Rusinov, Nadezhda A. Itsikson, Dmitry G. Beresnev, Olga V. Koryakova, Oleg N. Chupakhin^a
 Institute of Organic Synthesis, Russian Academy of Sciences,
 620219, Ekaterinburg, Russian Federation, Fax: +7 3432 74 11 89; e-mail: chupakhin@ios.uran.ru

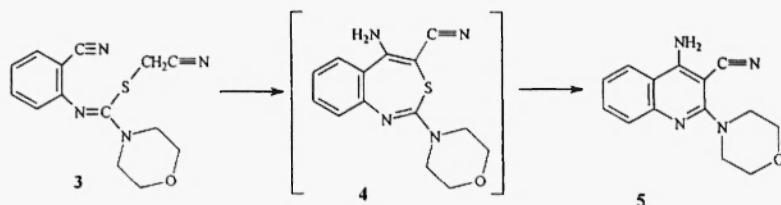


SYNTHESIS of 4-AMINO-3-CYANO-2-MORPHOLINOQUINOLINE

Walid Fathalla^a, Jaromír Marek^b and Pavel Pazdera^a

^aDepartment of Organic Chemistry, Masaryk University, 611 37 Brno, The Czech Republic

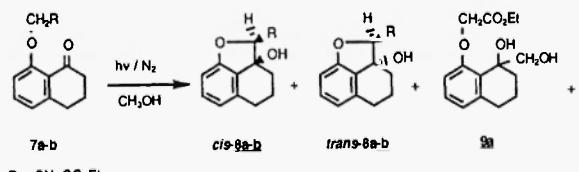
^bLaboratory of Biomolecular Structure and Dynamics, Faculty of Science, Masaryk University, Brno, Czech Republic.



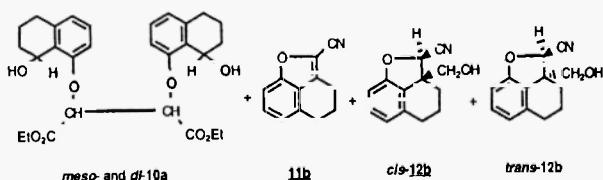
Identity of compounds **3** and **5** were confirmed by IR, ¹H, ¹³C NMR spectroscopy and X-ray structural analysis.

PHOTOCYCLIZATION REACTIONS OF ETHYL 2-(8-OXO-5,6,7,8-TETRAHYDRO-1-NAPHTHYLOXY)-ACETATE and 8-OXO-5, 6, 7, 8-TETRAHYDRO -1-NAPHTHYLOXYACETONITRILE IN METHANOL

Essam Mohamed Sharshira
 Department of Chemistry,
 Faculty of Science,
 Alexandria University,
 Alexandria, Egypt



R = CN, CO₂Et



Reactivity of bisolefinic systems with diazomethane and hydrazine hydrate - part III

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Department of Chemistry, Sri Venkateswara University, Tirupati - 517 502, India

Abstract : Mono and bis pyrazolines were prepared by the cycloaddition and cyclocondensation reactions of diazomethane and hydrazine hydrate with 1,5-diaryl-3-methyl-1,4-pentadien-3-one (1)

