

Graphical Abstracts

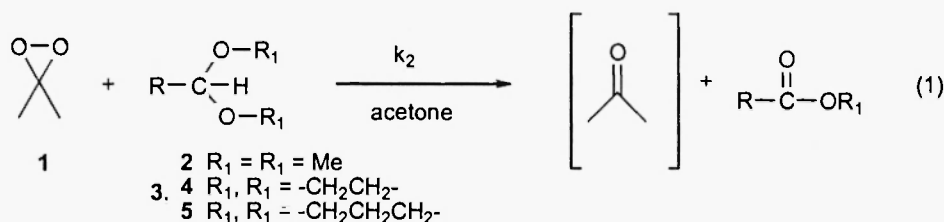
OXIDATION OF ACETALS BY DIMETHYLDIOXIRANE

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

Department of Chemistry, Center for Biotech and Drug Design, Georgia State University, Atlanta, Georgia 30303-3083, USA

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.



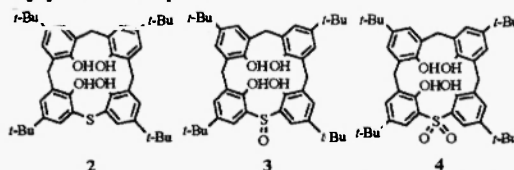
Heterocycl. Commun. 8 (2002) 13-18

Synthesis and Conformational Behavior of Sulfinyl- 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 sulfinyl or sulfone moiety as bridge were synthesized by the oxidation of the monothiacalix[4]arene. Direct information concerning dynamic inversion behavior of monosulfinyl- or monosulfonylcalix[4]arene are reported.



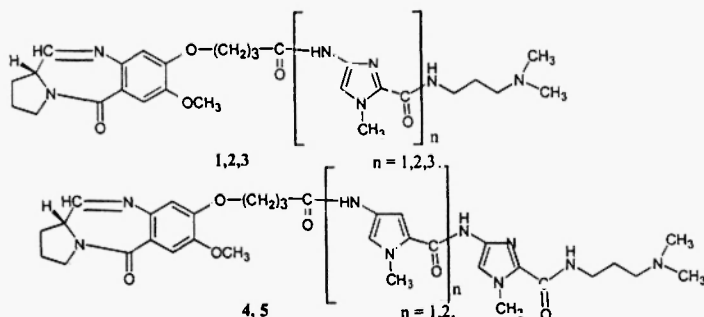
Heterocycl. Commun. 8 (2002) 19-26

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.

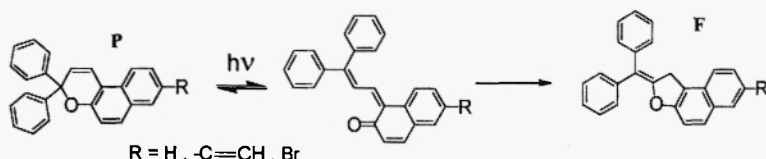


PHOTOCHEMICAL REACTIVITY OF 3H-NAPHTHO[2,1-b]PYRANS : AN EXAMPLE OF PHOTOINDUCED ISOMERISATION

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

LCMOM, UMR CNRS 6114, Université de la Méditerranée, Faculté 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.



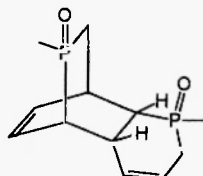
NOVEL BRIDGED P-HETEROCYCLES FROM 1,2-DIHYDROPHOSPHININE 1-OXIDES

György Keglevich, ^{**} János Kovacs, ^{*} Krisztina Ludanyi^b and László Tóke^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

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

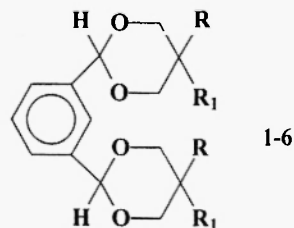
M. Pop^a, I. Grosu^a, G. Plé^b, S. Mager^a, L. Muntean^a, D. Marginean^c and N. Dinca^d

^a "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, Faculté des Sciences de Rouen, 76821 Mont Saint Aignan, Cedex, France

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

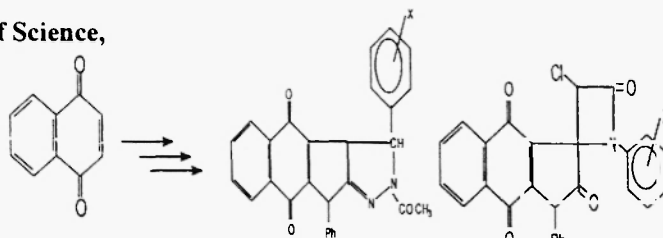
The synthesis and the stereochemistry of new 1,3-dioxane derivatives obtained from 1,3-benzenedicarboxaldehyde is reported



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.

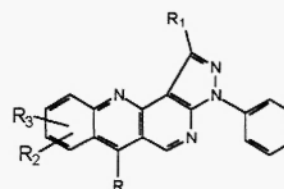
New fused and spiro heterocyclic compounds were Obtained starting from 1,4-naphthquinone.



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

Alexandre Reis de Azevedo, Izabel C.P.P. Frugulhetti, 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 3*H*-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 recorder.

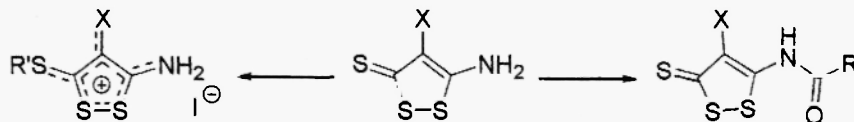


Regioselectivity of electrophilic attacks to 5-amino-3-thioxo-3*H*-1,2-dithiole-4-carboxylic acid functional derivatives. Elucidation of product structures.

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

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

^b Department 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.

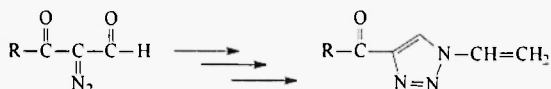
SYNTHESIS OF 1-VINYL 1,2,3-TRIAZOLE DERIVATIVES

Kadir Dabak* and Ahmet Akar

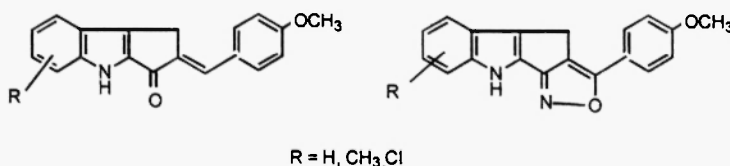
Istanbul Technical University, Faculty of Sciences, Department of Chemistry,
Maslak 80626 Istanbul-Turkey.

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.

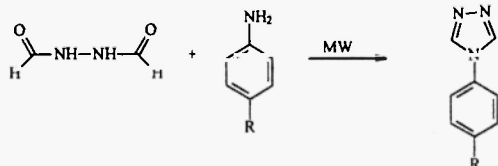
TETRACYCLIC COMPOUNDS FROM CYCLOPENT[*b*]INDOLES. SYNTHESIS OF ISOXAZOLO[3',4':5,4]CYCLOPENT[*b*]INDOLES.

V. SANGEETHA AND K. J. RAJENDRA PRASAD*

Department of chemistry
Bharathiar University
Coimbatore – 641046, IndiaAN EFFICIENT SYNTHESIS OF 4-ARYL-4*H*-[1,2,4]TRIAZOLES UNDER MICROWAVE IRRADIATION IN DRY MEDIA

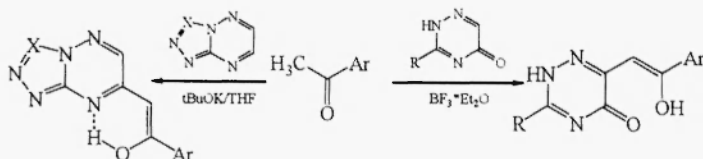
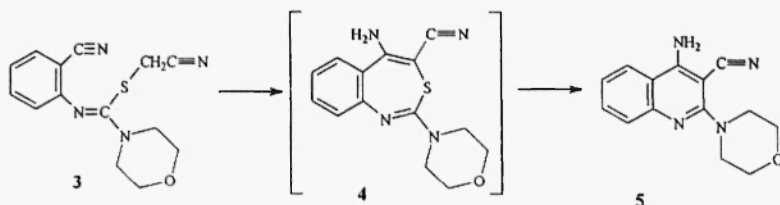
P. Woisel*, F. Cazier, G. Surpateanu, V. Baudel, V. Boursier

Laboratoire de Synthèse Organique et Environnement, EA2599, MREID, Université du Littoral-Côte d'Opale, 145, avenue Maurice Schumann 59140 Dunkerque

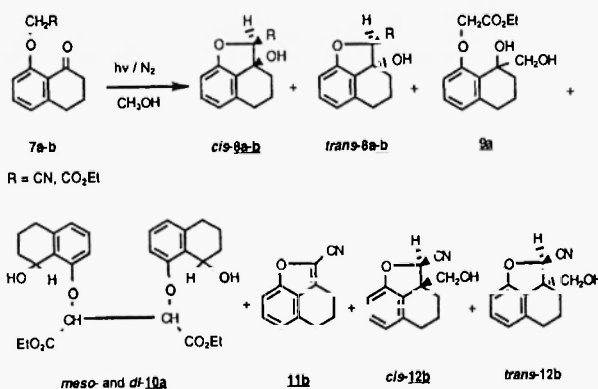
A solvent free synthesis of 4-aryl-4*H*-[1,2,4]triazoles under microwave irradiation.

S_N¹-REACTIONS OF 1,2,4-TRIAZINES DERIVATIVES WITH ACETOPHENONESGennady L. Rusinov, Nadezhda A. Itsikson, Dmitry G. Beresnev, Olga V. Koryakova, Oleg N. Chupakhin[®]

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*}^a Department of Organic Chemistry, Masaryk University, 611 37 Brno, The Czech Republic^b Laboratory 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**

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Department of Chemistry,
Faculty of Science,
Alexandria University,
Alexandria, Egypt

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)

