Graphical Abstracts

Heterocycl. Commun. 9 (2003) 433-436

EPOXIDATION OF *cis/trans*-ENOL ESTERS BY DIMETHYLDIOXIRANE: KINETICS

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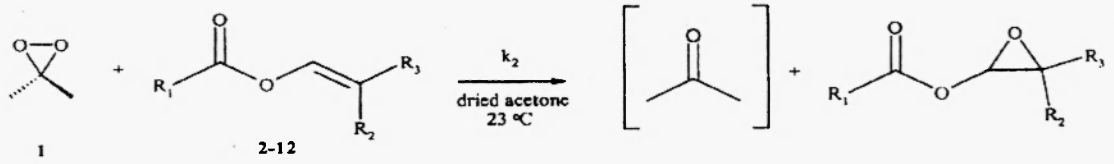


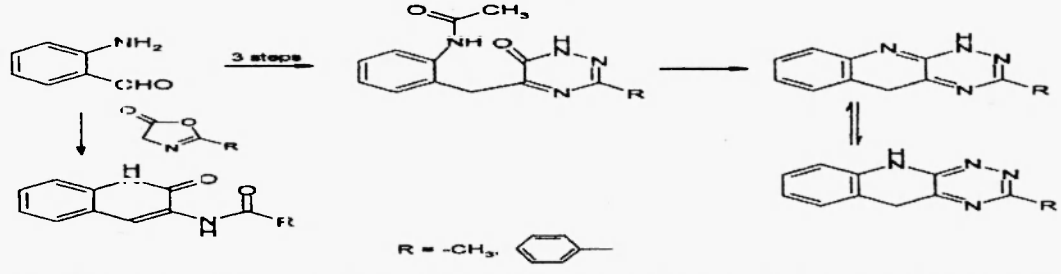
1 2-12

cis **(R_3=H) R_1, R_2: (2) Me, Ph; (3) Me, Me; (4) Me, Et; (5) Me, IPr; (6) Et, iPr**
trans **(R_2= H) R_1, R_3: (7) Me, Ph; (8) Me, Me; (9) Me, Et; (10) Me, iPr; (11) Et, iPr; (12) Me, tBu**

Heterocycl. Commun. 9 (2003) 437-442

Cyclocondensation Reactions of Heterocyclic Carbonyl Compounds VIII. Synthesis of some [1,2,4]triazino[6,5-b] quinoline derivatives.

Tomáš Gucky, Jan Slouka and Iveta Wiedermannová
Department of Organic Chemistry, Faculty of Science, Palacky University, Tr. Svobody 8, 771 46 Olomouc, Czech Republic, E-mail: wiedermannova@prfnw.upol.cz

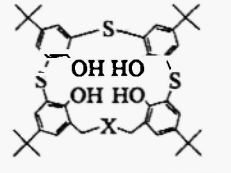


Heterocycl. Commun. 9 (2003) 443-448

Synthesis and Properties of
Homooxa- and Homoaza-thiacalix[4]arenes

Hiroyuki Teraura, Kazuaki Ito, Naoya Morohashi and Yoshihiro Ohba*
Department of Chemistry and Chemical Engineering, Faculty of Engineering, Yamagata University, Yonezawa 992-8510, Japan

New thiacalix[4]arene analogs incorporating a homooxa-moiety and a homoaza-moiety including amino acid residues were prepared. These macrocycles showed the extraction ability to soft metal ions such as Co^{2+}, Cu^{2+}, and Zn^{2+}. Homoazacalix[4]arenes having amino acid residues formed the chiral concave.

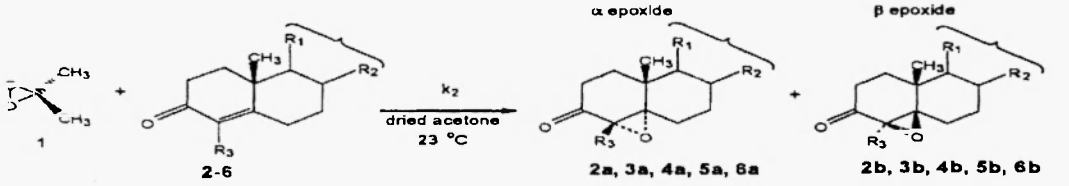


X= O, NR, N-CO2CH3 (*) R'

Heterocycl. Commun. 9 (2003) 449-452

EPOXIDATION OF BICYCLIC AND STEROIDAL α,β-UNSATURATED CARBONYL COMPOUNDS BY DIMETHYLDIOXIRANE: KINETICS

Angela M. Navarro-Eisenstein, Pedro C. Vásquez, Paul J. Franklin and A.L. Baumstark*
Department of Chemistry, Center for Biotech and Drug Design
Georgia State University, Atlanta, Georgia 30303-3083, USA



2, $R_1R_2R_3$= H; 3, R_1(=O), R_2R_3= H; 4, R_1R_2= H, R_3= Me; 5, 4-cholesten-3-one; 6, progesterone

Heterocycl. Commun. 9 (2003) 453-456

Synthesis of Pyrazolo[1,5-a]pyrimido[4,3-d] benzopyrans and 2-Pyrazolo[1,5-a]pyrimidinyl phenols from the reaction of 5(3)-Amino pyrazoles

G. Jagath Reddy *, D. Latha, K. Pallavi and K. Srinivasa Rao

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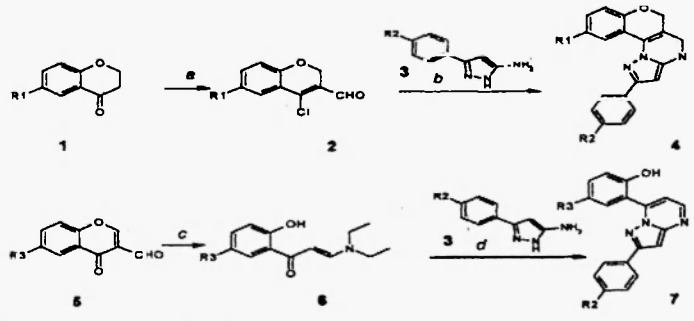
and

Md. Khalilullah

Department of Chemistry, Jawaharlal Nehru Technological University, Hyderabad-500072, India.

A number of Pyrazolo[1,5-a]pyrimido[4,3-d]benzopyrans(4a-m) and 2-(Pyrazolo[1,5-a]pyrimidinyl) phenols (7a-k) have been prepared from the reaction of 5(3)-Amino pyrazoles 3.

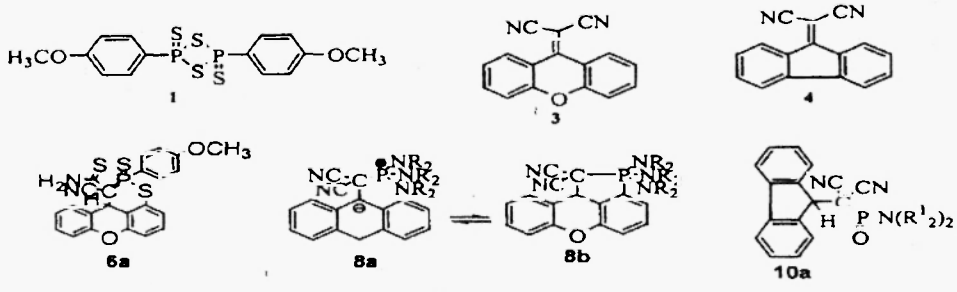


Heterocycl. Commun. 9 (2003) 457-464

THE BEHAVIOUR OF LAWESSON'S REAGENT AND DIALKYLAMINOPHOSPHINES TOWARDS DICYANOMETHYLENE DERIVATIVES OF XANTHONE AND FLUORENONE

Hoda A. Abdel-Malek
Department of Pesticide Chemistry, National Research Centre, D 12622-Dokki Cairo, Egypt.

The reaction of Lawesson's reagents **1** with xanthone **3** and fluorenone**4** to give adducts **6a**,**8a**,**8b**and **10a**.

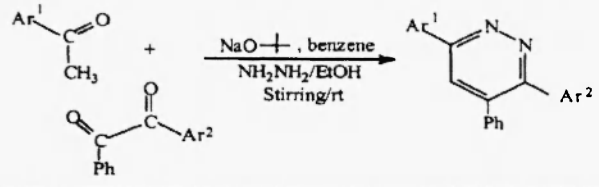


Heterocycl. Commun. 9 (2003) 465-472

A NOVEL ONE-POT SYNTHESIS OF SUBSTITUTED PYRIDAZINES:A GENERAL METHOD OF PREPARATION OF 3,4,6-TRI ARYL PYRIDAZINES.

Rishan Lang Nongkhlaw, Ridaphun Nongrum and Bekington Myrboh*
Department of Chemistry, North Eastern Hill University, Shillong- 793022. Meghalaya, INDIA.

Abstract: 3, 4, 6-triaryl pyridazines 4 were conveniently prepared in one step by the condensation of aryl methyl ketones and 1,2-diketones in presence of base, followed by cyclisation with hydrazines.

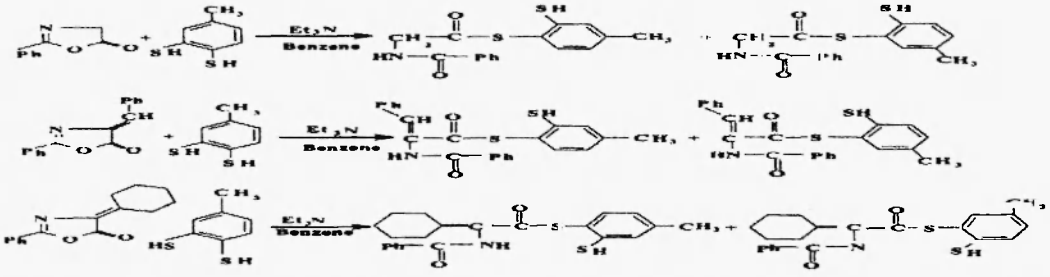


Heterocycl. Commun. 9 (2003) 473-478

REACTION OF 3,4-DITHIO-TOLUENE WITH 4-BENZYLIDENE-2-PHENYLOXAZOL-5(4H)-ONE GIVE BENZODITHIAN-3-ONE DERIVATIVE

Ahmad Momeni Tikdari*, Samieh Fozooni
Department of Chemistry, Shahid Bahonar University of Kerman, Kerman, Iran
e-mail: amomeni@mail.uk.ac.ir

2-Benzamideo-2-cyclohexyl-7-methyl-1,4-benzodithian-3-one have been prepared by the reaction of 2-phenyl-4-cyclohexylidene-5-(4H)oxazolone with 3,4-dithio-toluene and triethylamine at 120-130°c.

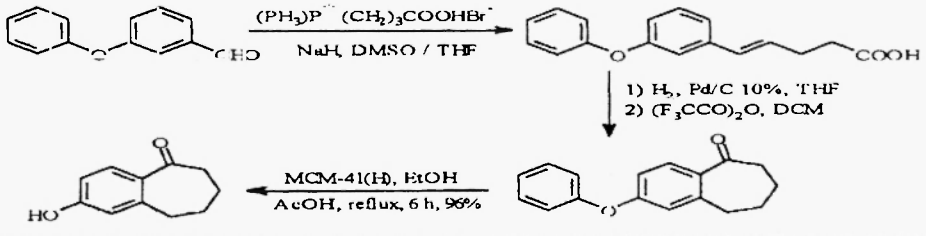


Heterocycl. Commun. 9 (2003) 479-482

A CONVENIENT NEW METHOD FOR 2-HYDROXY-6,7,8,9-TETRAHYDRO-5*H*-BENZOCYCLOHEPTEN-5-ONE

Lingaiah Nagarapu* and B. Srinivasulu
Organic Chemistry Division-II
Indian Institute of Chemical Technology, Hyderabad-500 007, India.

A novel approach has been developed for the synthesis of 2-hydroxy-6,7,8,9-tetrahydro-5*H*-benzocyclohepten-5-one is reported using 4-carboxybutyl triphenyl phosphonium bromide (Wittig salt) in excellent yield.

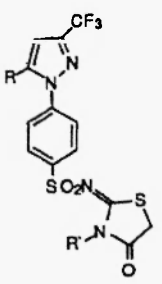


Heterocycl. Commun. 9 (2003) 483-488

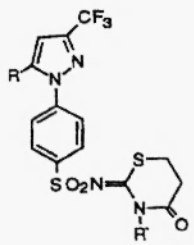
SYNTHESIS OF 1-*P*-SULFAMYLPHENYL-3 TRIFLUOROMETHYLPYRAZOLES CLASS OF CYCLOOXYGENASE-2 INHIBITORS

Abdullah M. Asiri[a], Hassan M. Faidallah[b], Hassan M. Albar[a], and E. M. Sharshira[a,b]

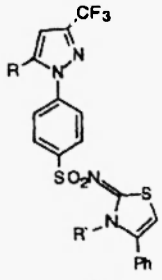
[a] Chemistry Department, Faculty of Science, University of King Abdulaziz , Saudi Arabia
[b] Chemistry Department, Faculty of Science, Alexandria University, Alexandria, Egypt



5a-c



6a-d



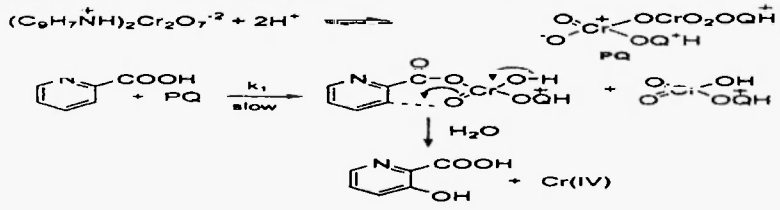
7a-c

Heterocycl. Commun. 9 (2003) 489-492

Quinolinium Dichromate oxidation of Heterocyclic Carboxylic Acids

Hauzazchin Suante and Mahendra K. Mahanti*
Department of Chemistry, North-Eastern Hill University
Shillong-793022, India e-mail: mkmahanti@yahoo.com

Oxidation of heterocyclic carboxylic acids by quinolinium dichromate in sulfuric acid, in 50% acetic acid-water as solvent is reported.

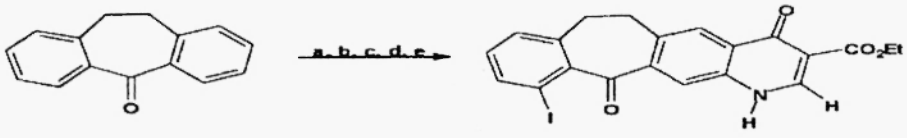


Heterocycl. Commun. 9 (2003) 493-498

SYNTHESIS A NEW BENZOCYCLEHEPTAQUINOLINE SYSTEM

Gilberto A. Romeiro* and Pauko Roberto C. Martinms; Universidade Federal Fluminense, Instituto de Química - GQO/CEG, Campus do Valonguinho S/N, Niterói, CEP 24210-150, RJ, Brasil.

The new heterocyclic benzocycloheptaquinoline 8a was synthetized with 44% yield, starting with dibenzosuberone 3 in five steps. The linear isomer was totaly identified by IR, NMR ^1H and ^{13}C and MS, spectroscopic methods.



a) TTFA / ATF / KI; b) HNO_3 / H_2SO_4 / 0° C; c) Fe^0 / HCl / NH_4Cl / CH_3OH / REFLUX / 8h
d) DEEMM / C_2H_5OH / 3h / REFLUX; e) DOWTHERM / 250 C°/ 15'

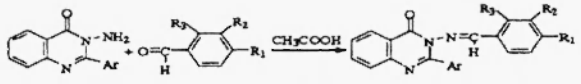
Heterocycl. Commun. 9 (2003) 499-502

SYNTHESIS OF SOME NEW BENZOXAZINE DERIVATIVES OF BIOLOGICAL INTEREST

Manjusha Verma, Sundaram Singh† and K. N. Singh*
Department of Applied Chemistry, Institute of Technology
Banaras Hindu University, Varanasi-221005
E-mail: knsinghbhu@yahoo.co.in

† Bundelkhand Institute of Engineering & Technology, Jhansi-284001

The synthesis of a number of biologically important imino-quinazolones has been achieved by the condensation of 3-amino-2-aryl-4-quinazolone and aromatic aldehydes.



Heterocycl. Commun. 9 (2003) 503-506

SYNTHESIS OF PYRAZOLO [3',4':4,5] PYRIMIDO [2,3-c][1,4] BENZOXAZINES: A NEW HETEROCYCLIC RING SYSTEM

P.S.N. Reddy and Pragati Reddy

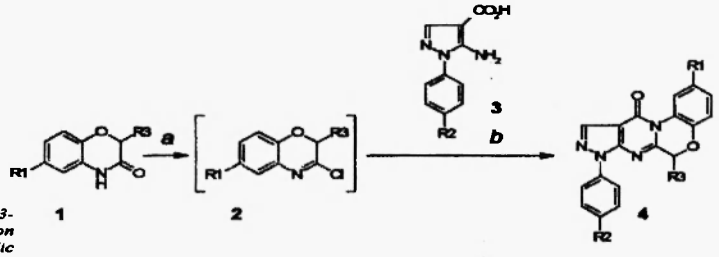
Department of Chemistry, Osmania University, Hyderabad-500 007, India, E-mail: psnreddyou@yahoo.com

and

G. Jagath Reddy * and K. Srinivasa Rao

R & D Laboratories, Dr. Jagath Reddy's Heterocyclics, 81, S.V.Co-op Industrial Estate, Balanagar, Hyderabad – 500 037, India. E-mail-jagathreddy@usa.net; Fax # 91-40-23773487.

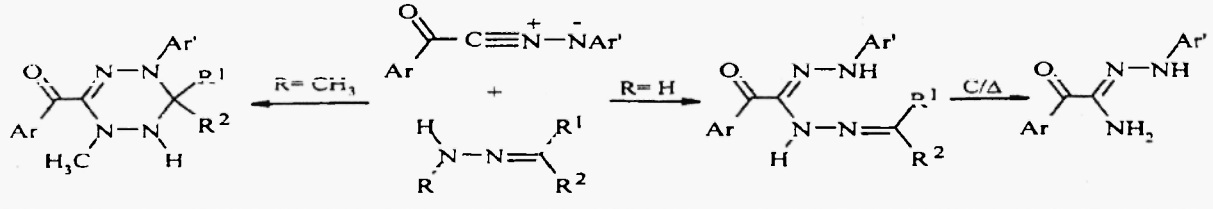
A series of 4-oxo-pyrazolo[3',4':4,5]pyrimido[2,3-c][1,4]benzoxazines(4a-l) have been prepared by cyclocondensation of 1,4-benzoxazinones (1) and with 5-aminopyrazole-4-carboxylic acids(3a-c) in a single step.



Heterocycl. Commun. 9 (2003) 507-514

HETEROCYCLIC SYNTHESIS USING NITRILIMINES: PART 3 (1). SYNTHESIS OF SUBSTITUTED 1,2,4,5-TETRAZINES AND 1,2,4,5-TETRAAZA-2-PENTENES

Hany M. Dalloul*[a], Peter H. Boyle[b]
a) Al-Aqsa University of Gaza, Palestine, *b)* Trinity College, Dublin 2, Ireland.



Heterocycl. Commun. 9 (2003) 515-518

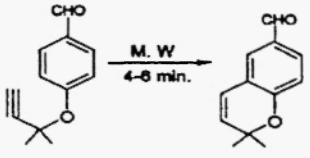
SYNTHESIS OF SOME NEW 3-ARYL-1-(4,6-DIMETHYL-2-PYRIMIDINYL)-4-FORMYLPYRAZOLES USING VILSMEIER HAACK REACTION

Om Prakash*, Ravi Kumar, Vikas Bhardwaj and Pawan K Sharma
***Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana-136119 (India).**

Heterocycl. Commun. 9 (2003) 519-526

Microwave Assisted Synthesis and Anti Microbial Activity of 2,2-Dimethyl Chromenes.

K. Suresh Babu[a], B. China Raju[a], B.Praveen[b], K.Harakishore[b], U.S.N.Murthy[b] and J. Madhusudana Rao[a]*.
[a]Natural Products Laboratory, Organic Division-I, [b]Biology Division, Indian Institute of Chemical Technology, Hyderabad-500 007, India.

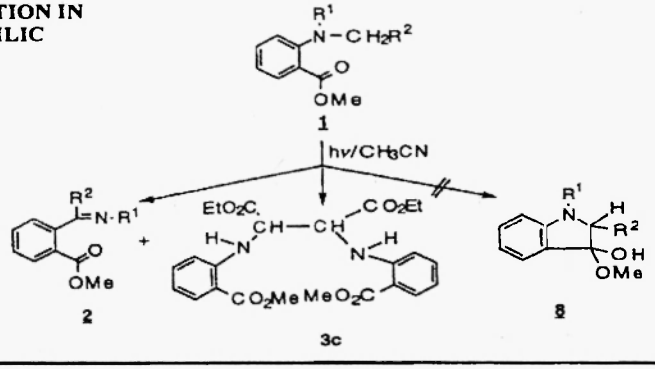


2,2-Dimethyl chromenes (**1b-9b**) were prepared from corresponding propargyl ethers (**1a-9a**) under microwave conditions in high yields and anti microbial activity of (**6b** & **7b**) is reported.

Heterocycl. Commun. 9 (2003) 527-534

NOVEL 1, 3- SPIROCYCLIZATION REACTION IN THE PHOTOCHEMISTRY OF ANTHRANILIC ACID DERIVATIVES IN ACETONITRILE

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



Heterocycl. Commun. 9 (2003) 535-538

SYNTHESIS OF NEW 4,5-DIHYDROISOXAZOLES WITH POTENTIAL ANTI-INFLAMMATORY ACTIVITYY

Cleia Tomaz Molina and Alcino Palermo de Aguiar* Departamento de Química, Instituto Militar de Engenharia, 22290-270, Rio de Janeiro, Brazil.

This work reports the synthesis of different 4,5-dihydroisoxazoles, which may present anti-inflammatory activity. The employed synthetic methodology is based on the 1,3-dipolar cycloaddition of the nitrile oxide derived from vanillin to a series of unsaturated compounds. Trichloroisocyanuric acid was used as a suitable oxidizing reagent to convert the aldoxime to the imidoyl chloride. The products were obtained with yields between 40 and 90%. FTIR, GC/MS, ^{1}H NMR, ^{13}C NMR were employed to characterize all the products.