1925 1,3-Dipolar cycloadditions: Part VII—Cycloaddition of C,N-diarylnitrones to ethyl crotonate

IPC: Int.Cl. 7 C 07 D 261/02

The cycloaddition reactions of C-aryl-N-phenyl nitrones 1-4 and C-aryl-N-(p-chlorophenyl) nitrones 5 and 6 to ethyl crotonate have been investigated. The 3,4-trans-4,5-trans-3-aryl-4-carbethoxy-5-methylisoxazolidines are obtained regio- and stereoselectively as the major products with the corresponding diastereomeric 3,4-cis-4,5-trans-isomers as minor cycloadducts. Structures and stereochemistry of the products have been determined by detailed NMR studies and X-ray crystallographic analysis.

Avijit Banerji*, Saugandha Dasgupta (Mrs Ray), Piyali Sengupta (Mrs Saha), Thierry Prange & Alain Neuman

1934 Low-valent titanium mediated synthesis of hydroxystilbenoids: Some new observations

IPC: Int.Cl. 7 C 01 G 23/02

Dihydrostilbenes are formed with phenolic aldehydes. Aliphatic substrates do not undergo depyranylation.

U Shadakshari, S Rele, S K Nayak & S Chattopadhyay*
1939  
Synthesis and spectroscopic characterization of cholesteryl hydrogen phthalate and its derivatives

IPC: Int.Cl.7 C 07 J 1/00

The synthesis and spectroscopic characterization of cholesteryl hydrogen phthalate and its derivatives are reported in this paper. Cholesterol as well as phthalic anhydride are used as the starting materials in preparing cholesteryl hydrogen phthalate.

P F Ng, T W Sum, M C Feng, C B Yeoh & M G Tay*

1944  
Synthesis and fluorescence properties of 3-benzoxa- and thiazol-2-ylquinoline-5 or 7-maleimides

IPC: Int.Cl.7 C 07 D 215/00

Synthesis of four new 5- or 7-benzoxa/thiazol-2-ylquinolinemaleimides is described. Among these, 3-benzoxazol-2-ylquinoline-7-maleimide is found to be a useful protein label that gives highly fluorescent bioconjugate.

J S Nair & K N Rajasekharan*

1950  
Ultrasound promoted synthesis of (±)-8-hydroxy-5-isopropyl-8-methyl-6(E)-nonen-2-one ((±)-solanone hydrate) and 3,7-dimethyl-2(E),7-octadienylpropionate

IPC: Int.Cl.7 C 07 C

A facile synthesis of the title compounds in good yield has been achieved via sonication as the key step.

Vasundhara Singh*, Sangeeta Chaudhary, Varinder Sapehiyia, Irvinder Kaur, Goverdhan Lal Kad & Javinder Singh

INDIAN J CHEM, 43B (9) 2004
A simple and efficient method for the synthesis of 1,2-benzisoxazoles: A series of its potent acetylcholinesterase inhibitors

IPC: Int.Cl. 7 C 07 D 263/54

A simple and efficient method for the synthesis of 6-fluoro-3-(4-piperidinyl)-1,2-benzisoxazole hydrochloride is achieved. This reaction involves hydroxylamine sulfate/KOH mediated, *in situ* generated oxime formation and its subsequent internal cyclisation followed by alkaline hydrolysis of N-protected ketone in one step. Synthesis of 1,2-benzisoxazole analogues is described and they are found to be potent acetylcholinesterase inhibitors.

Basappa, K Mantelingu, M P Sadashiva & K S Rangappa*

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Theoretical perspectives on the Cope rearrangement in bullvalene systems

IPC: Int.Cl. 7 C 07 C 13/23

Pebam Munindro Singh & R H Duncan Lyngdoh*

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Structure of ethyl-[(2-amino-4-phenyl)-5-thiazolyl]acetate

IPC: Int.Cl. 7 C 07 D 277/00

The crystal structure of ethyl-[(2-amino-4-phenyl)-5-thiazolyl]acetate has been determined by X-ray methods. The molecule on the whole is non-planar and the crystal structure is stabilized significantly by intra and intermolecular hydrogen bonds.

V N Narasimha Murthy, M K Kokila, Puttaraja, N C Shivaparaksh*, M V Kulkarni & Mahesh
1973 Determination of drugs in pharmaceuticals and pesticides by micellar liquid chromatography

Devasish Bose*, Abhilasha Durgbanshi, M Elisa Capella-Peró, Mayte Gil-Agustí, Samuel Carda-Broch & Josep Esteve-Romero*

1983 Kinetics of base catalysed O-acylation of hydroxamic acids

A S Burungale, S L Padwal, S P Bondage, R D Ingle & R A Mane*

1990 α-Effect of hydroxamate-ions in micellar mediated reactions of p-nitrophenyl acetate

Kallol K Ghosh*, Yurii Simanenko, M L Satnami & Santosh K Sar

1995 The influence of the hydroxylic solvents on the reaction rates of diazodiphenylmethane with cyclohexylcarboxylic and cycloalkylcarboxylic acids

Jasmina B Nikolić, Gordana S Ušćumlić* & Vera V Krstić

INDIAN J CHEM, 43B (9) 2004
A new withanolide from the roots of *Withania somnifera* (Solanaceae) resulted in the isolation of a new withanolide, glucosomniferanolide, characterized as (20R, 22S)-1-oxo-witha-2, 5, 24-trienolide-20-β-ol-20-O-glucopyranoside 1 by spectral analyses and chemical reactions.

A Kumar, M Ali* & S R Mir

Notes

Synthesis of a covalent triferrocenyl cluster using *p*-ferrocenyl phenol

Saumitra Sengupta

Synthesis of steroidal thiazolidinone: 3-Diazo(4'-thiazolidinon) cholest-4-ene

Cholest-5-en-3-one 1 and thiosemicarbazide in the presence of conc. HCl yields cholest-4-en-3-one thiosemicarbazone 2, which on condensation with chloroacetic acid and anhy sodium acetate in glacial acetic acid affords steroidal thiazolidinone 3.

Shamsuzzaman* & Nazish Siddiqui

*Indian J Chem, 43B (9) 2004*
2010 Synthesis of 1,8-naphthyridinyl-pyrazoles using microwave irradiation under solvent-free conditions

IPC: Int.Cl.7 C 07 D 231/00

![Chemical structure](image)

K Mogilaiah* & Ch Srinivas Reddy

2014 Chloramine-T mediated synthesis of 1,8-naphthyridinyl-1,3,4-oxadiazoles

IPC: Int.Cl.7 C 07 D 271/10

![Chemical structure](image)

K Mogilaiah*, K Srinivas & G Rama Sudhakar

2018 Microwave induced eco-friendly solvent-free Biginelli reaction catalyzed by calcium chloride

IPC: Int.Cl.7 C 01 F 11/20

![Chemical structure](image)

Anup Kumar Misra*, Geetanjali Agnihotri & Soni Kamlesh Madhusudan
Bisacetamide hydrochloride: A chemoselective and inexpensive N-acetylating reagent for amino phenols

Yanqing Peng, Gonghua Song* & Fang Ding

Iodoazidation of olefins by polymer-bound iodate (I) reagents

Md Abul Hashem* & Tahmina Haque

Synthesis of some new 4-O-(&-d-glucopyranosyloxy)-4, 6-dialaryl-tetrahydropyrimidine-2-thiones and their biological activities

V N Ingle*, S T Kharche & U G Upadhyay
A convenient synthesis of 2-benzoyl-1,5-diphenylpyrroles, a class of potentially biologically active compounds

Asok K Mallik*, Surya K De & Falguni Chattopadhyay

Book Review

Reviews on Indian Medicinal Plants, Volume 1-(Abe-Ale), Volume 2-(Alli-Ard), Volume 3-(Are-Azi),

Prema Parvatharajan

Authors for correspondence are indicated by (*)

IPC: International Patent Classification
Int. Cl.: International Classification 7 edition, 1999