A new quinone from *Maesa indica* (roxb.) A. dc, (myrsinaceae)

A new benzoquinone, *kiritiquinone* 2,5-dihydroxy-6-methyl-3-(henicos-16-enyl)-1,4-benzoquinone, has been isolated from the fruits of *Maesa indica* (Roxb.) A.D.C.

Gina R Kuruvilla, M Neeraja, A Srikrishna* G S R Subba Rao, A V S Sudhakar & Padma Venkatasubramanian

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Synthesis and biological screening of novel derivatives of 3-(N-substituted carboxamidoethylthio)-(4H)-1,2,4-triazoles

3-Mercapto-(4H)-1,2,4-triazole has been synthesized from 1-formylthiosemicarbazide. Different N-substituted β-chloropropionamides have been prepared by reacting substituted amines with β-chloropropionylchloride. Different N-substituted β-chloropropionamides have been condensed with 3-mercaptopo-(4H)-1,2,4-triazole in basic medium to obtained various 3-(N-substituted carboxamidoethylthio)-(4H)-1,2,4-triazoles.

Anil M Manikrao*, Ravindra A Fursule, K S Rajesh, Harish K Kunjwani & Prafulla M Sabale

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Total synthesis of three natural products: Decyl 8-hydroxyheptadecanoate, undecyl hexadecanoate and 2,3-dihydroxypropyl hexadecanoate

First syntheses of decyl 8-hydroxy-heptadecanoate 1 and undecyl hexadecanoate 2 via utilization of microwave energy have been achieved and a new synthesis of 2,3-dihydroxypropyl hexadecanoate 3 has also been accomplished from readily available starting compound hexadecanol.

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Notes

Aluminium nitrate as an efficient and reusable catalyst for the three components one-pot Mannich reaction: Synthesis of β-amino carbonyl compounds

Three components one-pot Mannich reaction of aromatic ketones, aromatic aldehydes and aromatic amines has been efficiently catalysed by recyclable aluminium nitrate at ambient temperature to give various β-amino carbonyl compounds in high yields.

Min Wang*, Yan Liang & Zhiguo Song
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Quantitative structure activity relationships for the nematicidal activity of 4-amino-5-substituted aryl-3-mercapto-(4H)-1,2,4-triazoles

The relationship between the structure of a series of 4-amino-5-substituted aryl-3-mercapto-(4H)-1,2,4-triazoles and their nematicidal activity against M. incognita and R. reniformis has been studied using physicochemical parameters of the molecules.

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Division of Agricultural Chemicals, Division of Nematology, Indian Agricultural Research Institute, New Delhi 110 012, India
1662 Synthesis of benzothiazole appended β-lactams through [2+2]-cycloaddition reaction

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\begin{align*}
\text{COOH} & \quad \text{PPA} \quad 180^\circ \text{C} \\
\text{SH} & \quad \text{gl, acetic acid} \\
\text{NH}_2 & \quad \text{Ethanol} \\
\text{CAC} & \quad \text{Dioxane}
\end{align*}
\]

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1667 Synthesis of \( N-1-(3,5\text{-dimethyl-4-isoxazolyl})-3-(4\text{-aryl-5-thioxo-4,5-dihydro-1H-1,2,4-triazol-3-yl})\)propanamides as possible antitumor agents

Synthesis of \( N-1\) (3, 5-dimethyl-4-isoxazolyl)-3-(4-aryl-5-thioxo-4,5-dihydro-1H-1,2,4-triazol-3-yl)-propanamides \( 7 \) have been accomplished from 4-amino-3,5-dimethylisoxazole \( 1 \) in five steps. The structural elucidation of the synthesized compounds has been performed by IR, \( ^1\text{H} \) NMR and mass spectroscopic data besides elemental analyses.

Ch V Narsimha Reddy, S Raju, M Nagi Reddy & E Rajanarendar*

Department of Chemistry, Kakatiya University, Warangal 506 009, India
Synthesis and bioactivity evaluation of pyrazolone derivatives

A series of 3-methyl pyrazolone derivatives have been synthesized and characterized. All the compounds have shown significant analgesic and anti-inflammatory activity.

Mariappan G*, Saha B P, Sutharson L & Haldar A

Department of Pharmaceutical Chemistry, Himalayan Pharmacy Institute, Majhitar, East Sikkim 737 136, India

Studies of antimicrobial activity of picryl amino pyridine N-oxides

Biologically active picryl amino pyridines and their N-oxide have been successfully synthesized and screened for their antimicrobial potency to set up the structure activity relationships and found to possess better antibacterial activity than antifungal activity.

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High atom efficient and environment-friendly preparation of herbicides bromoxynil and ioxynil

High atom efficient and environment-friendly preparation of herbicides bromoxynil and ioxynil using bromide/bromate and iodide/iodate couple as halogenating reagent in water at room temperature is described.

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Annual Index

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