Facile synthesis of various 4-carboxylic acid derivatives and their amide analogues of benzopyrans

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Effect of some pyridinium based compounds on the hydrolysis of carboxylate ester

The three pyridinium compounds 4-(-1-aminoxyiminomethyl)-1-dodecylpyridinium bromide (4-AHIDDPB), 3-hydroxy-1-dodecylpyridinium bromide (3-HDDPB) and 3-hydroxyiminomethyl-1-dodecylpyridinium bromide (3-HIDDPB) have been synthesized and nucleophilic reactivities of these compounds studied.

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617 Quantitative structure activity relationship analysis of bisbenzofuran cations as antimalarial agents employing multivariate statistical approach

A 2D QSAR study has been conducted on 43-bisbenzofuran derivatives with antimalarial activity using multiple linear regression (MLR) and partial least squares (PLS) methods.

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Notes

631 An efficient total synthesis of (±)-pregabalin

The synthesis of (±)-pregabalin has been accomplished by oxidation and reduction of 2-benzyl-4-methyl-pentanenitrile.

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635 Antiviral activity of a new flavone glycoside from Emilia sonchifolia DC.

A new flavone glycoside has been isolated from seeds of Emilia sonchifolia DC. It has been characterized as 3,7,3',4'-tetrahydroxy-flavone-3-O-β-D-xylopyranosyl-(1→3)-O-β-D-galactopyranosyl-(1→4)-O-α-L-rhamnopyranoside by various chemical degradations and spectral analysis.

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Synthesis, characterization and potential anticonvulsant activity of various 3-(substituted)-benzylidene-7-chloro-5-phenyl-1,3-dihydro-benzo[e][1,4]diazepin-2-one

Some new 3-(substituted)-benzylidene derivatives of 7-chloro-5-phenyl-1,3-dihydro-benzo[e][1,4]diazepin-2-one have been synthesized and their anticonvulsant activity tested through Maximal Electroshock (M.E.S.) model and PTZ animal model by using Phenytoin and Diazepam as reference drugs respectively. The five compounds 4a, 4b, 4d, 4h and 4j have shown significant anticonvulsant activity as compared to reference drugs.

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Effects of phenols, amines and alcohols on the reactivity of triphenyltin hydride towards alkyl cinnamates

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650 A mild protocol for the synthesis of 2-arylbenzoxazoles from phenolic Schiff bases promoted by superoxide

An easy and efficient oxidative cyclization of Schiff bases, derived from the condensation of \(\alpha\)-aminophenol with aromatic aldehydes, to 2-arylbenzoxazoles is described using \textit{in situ} generated tetraethylammonium superoxide in aprotic solvent, at room temperature.

\[
\begin{align*}
1 \rightarrow 2 & \quad \text{R} = \text{H}, \text{R}^1 = \text{C}_6\text{H}_5 \\
& \quad \text{b} : \text{R} = \text{H}, \text{R}^1 = \text{4-CH}_3\text{C}_6\text{H}_4 \\
& \quad \text{c} : \text{R} = \text{H}, \text{R}^1 = \text{4-CH}_3\text{OC}_6\text{H}_4 \\
& \quad \text{d} : \text{R} = \text{H}, \text{R}^1 = \text{2-CH}_3\text{OC}_6\text{H}_4 \\
& \quad \text{e} : \text{R} = \text{H}, \text{R}^1 = \text{NO}_2 \\
& \quad \text{f} : \text{R} = \text{H}, \text{R}^1 = \text{S}
\end{align*}
\]

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653 Microwave accelerated synthesis of 2-aminothiophenes in ionic liquid \textit{via} three component Gewald reaction

Microwave accelerated synthesis of substituted 2-aminothiophenes by a three-component Gewald reaction using a basic ionic liquid, 1,1,3,3-tetramethylguanidine lactate [TMG] [Lac] as solvent as well as catalyst has been developed. The products are obtained in good to high yields and the ionic liquid is reusable over several cycles without significant loss in catalytic activity.

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Sleek synthesis of 2,3-dihydrobenzofurans

2-Benzoyl-3-phenacyl-2,3-dihydrobenzofurans are synthesized by the reaction between 2-hydroxychalcones and 2-bromoacetophenones with potassium carbonate in boiling acetone in good yield.

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