695 Design, synthesis and antibacterial activity of novel N-formylhydroxylamine derivatives as PDF inhibitors

Novel N-formylhydroxylamine derivatives 11a-i have been designed and synthesized, and their in vitro antibacterial activity evaluated.

L Yin, J Jia, G L Zhao, W R Xu, L D Tang & J W Wang*
School of Chemistry and Chemical Engineering, Shandong University, Jinan 250100, P. R. China

704 Hybrid macrocyclic receptors based on lower rim functionalised thiacalix[4]arene and amino acids: Synthesis, structure and binding properties towards metal ions

Thulasi Sreeja, Viswanathan Bhagavathy Ganga, Lakshmananpillai Praveen & Ramavarma Luxmi Varma*
Chemical Sciences and Technology Division, National Institute for Interdisciplinary Sciences and Technology (CSIR), Thiruvananthapuram 695 019, India
Lipase catalyzed substituted coumarins with antioxidant activity

Lipase has been employed as green catalyst to esterify 7- and 6-hydroxy-4-methyl-coumarin with different fatty and acetic acids. The esterified coumarins have been evaluated for antioxidant activities.

![Chemical Structures](image_url)

Mazaahir Kidwai*, Vaishali & Roona Poddar
Green Chemistry Research Laboratory, Department of Chemistry, University of Delhi, Delhi 110 007, India

Synthesis of some novel isoxazolyl pyrimido[4,5-d][1,3]-thiazol-7-ones, isoxazolyl-2-(4-oxo-4H-1,3-benzothiazin-2-yl)acetamides and isoxazolyl thiazolidinones from isoxazolyl cyanoacetamide synthon

The synthesis of novel isoxazolyl pyrimido[4,5-d][1,3]-thiazol-7-ones, isoxazolyl-2-(4-oxo-4H-1,3-benzothiazin-2-yl)acetamides and isoxazolyl thiazolidinones has been accomplished from isoxazolyl cyanoacetamide synthon. All the newly synthesized compounds have been fully characterized by spectral studies.

E Rajanarendar*, K Rama Murthy, M Nagi Reddy & K Govardhan Reddy
Department of Chemistry, Kakatiya University, Warangal 506 009, India

Notes

Synthesis and evaluation of N-(α-benзамido cinnamoyl) aryl hydrazone derivatives for anti-inflammatory and antioxidant activities

G Rajitha*, N Saideepa & P Praneetha
Institute of Pharmaceutical Technology, Sri Padmawati Mahila Viswavidyalayam, Tirupati 517 502, India
Synthesis of quinozoline and its imino sugars by using NaY zeolite catalyst under microwave condition

3-Amino-2-phenylquinazolin-4(3H)-one 2 has been synthesized by the treatment of hydrazine hydrate with 2-phenyl-4H-3,1-benzoxazin-4-one 1 using NaY zeolite as a solid support under microwave irradiation. Compound 2 on reaction with various aldoses afforded the corresponding imino sugars 3a-h. Synthesized compounds were characterized by spectral and analytical data.

\[
\begin{align*}
\text{O} & \quad \text{NaY zeolite} \\
\text{O} & \quad \text{K}_2\text{CO}_3 \\
\text{Ph} & \quad 1 \text{.50 min} \\
\text{NH}_2\text{NH}_2 & \quad \text{M.W.} \\
\text{N} & \quad \text{RCHO, NaY Zeolite} \\
\text{O} & \quad 10-19 \text{ min.} \\
\text{Ph} & \quad 3a-h
\end{align*}
\]

Manish Kumar Rawal, Urvashi Tiwari, Bharat Parashar, Rakshit Ameta & Pinki B Punjabi*

*Microwave Chemistry Laboratory, Department of Chemistry, University College of Science, M.L. Sukhadia University, Udaipur 313 001, India

Synthesis of oxadiazoles and pyrazolones as a antimycobacterial and antimicrobial agents

Various oxadiazoles 3a-k and pyrazolone 4a-k derivatives have been synthesized and tested for antimycobacterial and antimicrobial activity. The structures of the compounds have been assigned by IR, $^1$H NMR and mass spectroscopy.

\[
\begin{align*}
\text{Cl} & \quad \text{O} \\
\text{N} & \quad \text{N} \\
\text{N} & \quad \text{N} \\
\text{N} & \quad \text{N} \\
\text{NH} & \quad \text{R} \\
\text{R} & \quad \text{R}
\end{align*}
\]

K M Thaker, R M Ghetiya, S D Tala, B L Dodiya, K A Joshi, K L Dubal & H S Joshi*

Department of Chemistry, Saurashtra University, Rajkot 360 005, India
Microwave assisted one-pot synthesis of nitrogen and oxygen containing heterocycles from acyl Meldrum’s acid

One-pot syntheses of biologically active nitrogen and oxygen containing heterocyclic compounds such as uracils and thiouracils 3, 1,4-benzothiazines 4, 4-methylcoumarins 5 and 4H-1,4-dihydropyridines 6, using acyl Meldrum’s acids are reported.

An efficient Friedlander condensation using Zr(OH)$_2$CO$_3$.ZrO$_2$ as catalyst in the solid state

A simple and efficient method for the synthesis of 1,8-naphthyridines 3 has been achieved by the Friedlander condensation of 2-amino- nicotinaldehyde 1 with various carbonyl compounds containing $\alpha$-methylene group 2 in the presence of Zr(OH)$_2$CO$_3$.ZrO$_2$ under solid state conditions.

D H More & P P Mahulikar*
School of Chemical Sciences, North Maharashtra University, Jalgaon 425 001, India

K Mogilaiah*, T Kumara Swamy & A Vinay Chandra
Department of Chemistry, Kakatiya University, Warangal 506 009, India
An efficient one-pot synthesis of isoxazolyl polyhydroquinolines via Hantzsch condensation using L-proline as catalyst

L-Proline is employed as an efficient organo catalyst for the one-pot, four component Hantzsch reaction for the synthesis of isoxazolyl polyhydroquinoline derivatives. This method is environmentally benign, affords excellent yields and has operational simplicity and isoxazole amines are used for the first time in this synthesis.

\[
\begin{align*}
\text{CHO} & \quad 1 \quad \text{CHO} \quad 2 \quad \text{CO} \quad 3 \quad \text{OC}_2\text{H}_5 \quad 4
\end{align*}
\]

Reflux in EtOH / L-proline

E Rajanarendar*, M Nagi Reddy & S Raju

Department of Chemistry, Kakatiya University, Warangal 506 009, India

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Authors for correspondence are indicated by (*)