

## CATALYTIC ASYMMETRIC FRIEDEL CRAFTS ALKYLATIONS B ANDINI MARCO UMANI RONCHI ACHILLE%0A

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Wiley: Catalytic Asymmetric Friedel-Crafts Alkylations ...

Catalytic Asymmetric Friedel-Crafts Alkylations. Marco Bandini (Editor), Achille Umani-Ronchi (Editor) ISBN: 978-3-527-32380-7. 317 pages, August 2009. Read an Excerpt Description. This first comprehensive overview of this important synthetic reaction covers the whole spectrum of this modern and rapidly developing field. Clearly structured, the book presents all the known synthetic approaches.

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Catalytic Asymmetric Friedel Crafts Alkylation Reactions ...

Catalytic Asymmetric Friedel Crafts Alkylation Reactions Copper Showed the Way Thomas B. Poulsen and Karl Anker Jørgensen \* Danish National Research Foundation, Center for Catalysis, Department of Chemistry, Aarhus University, DK-8000 Aarhus C, Denmark.

New Catalytic Approaches in the Stereoselective Friedel ...

Achille Umani-Ronchi Prof. Dr. E-mail It has taken more than a century for asymmetric catalytic versions of this reaction to be developed and subsequently extended to a range of aromatic compounds and alkylating agents. Herein we review recent developments in the design and use of catalytic and stereoselective strategies for the alkylation of aromatic systems and synthesis of a wide range.

Friedel-Crafts Alkylation Reaction Asymmetric Versions

Friedel-Crafts Alkylation Reaction Asymmetric Versions Keith A. Korthals When Pepsi started marketing its products in China a few years back, they translated Catalytic and asymmetric Friedel Crafts alkylation of ...

Catalytic asymmetric Friedel Crafts alkylation of indoles with nitroacrylates Initially, the chiral Lewis acid catalysts prepared from bisoxazoline-type ligands ( L1-L5 , Fig. 1 ) and metal salts were employed in the asymmetric catalytic Friedel Crafts reaction of indole 1a with nitroacrylate ( Z )-2a .

Formation of optically active chromanes by catalytic ... A novel tandem reaction involving an oxa-Michael addition, followed by a Friedel Crafts alkylation has been developed. This catalytic tandem reaction, which provides

facile and efficient access to optically active functionalised chromanes, proceeds under the influence of bisoxazoline-based catalysts to give

#### Chapter 4 Friedel-Crafts alkylation of 2- naphthol using ...

150 4.1 Introduction 2- naphthol is a colourless crystalline solid with the formula C<sub>10</sub>H<sub>7</sub>OH. It is an isomer of 1-naphthol differing by the location of the hydroxyl group on naphthalene.

#### Tandem Catalytic Asymmetric Friedel Crafts/Henry Reaction ...

6 Takayoshi Arai, Chihiro Tokumitsu, Tomoya Miyazaki, Satoru Kuwano, Atsuko Awata, Catalytic asymmetric [3 + 2]-cycloaddition for stereodivergent synthesis of chiral indolyl-pyrrolidines, Org. Biomol.

#### A review of new developments in the Friedel Crafts ...

The development of efficient Friedel Crafts alkylations of arenes and heteroarenes using only catalytic amounts of a Lewis acid has gained much attention over the last decade. Catalytic asymmetric tandem Friedel Crafts alkylation

...

General procedure B for the catalytic asymmetric tandem Friedel Crafts alkylation/Michael addition reaction of indoles with nitroolefin enoates: Into a dried Schlenk tube were added Zn(OTf)<sub>2</sub> (7.3 mg, 0.02 mmol) and ligand 1 (12.2 mg, 0.02 mmol) under argon followed by the addition of toluene (3 mL).

#### A review of new developments in the Friedel-Crafts ...

The development of efficient Friedel-Crafts alkylations of arenes and heteroarenes using only catalytic amounts of a Lewis acid has gained much attention over the last decade. The new catalytic approaches described in this review are favoured over classical Friedel-Crafts conditions as benzyl-, propargyl- and allyl alcohols, or styrenes, can be used instead of toxic benzyl halides.