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Abstract: The asymmetric  
Friedel-Crafts (FC)  
alkylation of pyrrole with  
nitroalkenes was mediated by  
 $\text{CuBr}_2$  and a novel  
bisphenol A-derived chiral  
catalyst at room  
temperature. The catalyst  
was found to be applicable

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for the asymmetric FC alkylation of pyrrole with a wide range of nitroalkenes, affording optically active alkylated pyrroles with enantioselectivities up to 94%.

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...

Pyrrole is a heterocyclic aromatic organic compound, a five-membered ring with the formula  $C_4H_4NH$ . It is a colorless volatile liquid that darkens readily upon exposure to air. Substituted derivatives are also called pyrroles, e.g., N-methylpyrrole,  $C_4H_4NCH_3$ .

3. Porphobilinogen, a

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trisubstituted pyrrole, is the biosynthetic precursor to many natural products such as heme.

Pyrrole - Wikipedia

A highly enantioselective Friedel-Crafts (F-C) alkylation of pyrrole with a wide range of simple nonchelating chalcone derivatives catalyzed by a chiral  $(\text{Zn}^2\text{EtL})_n$  ( $L = (S,S)\text{-}1$ ) complex has been developed. The catalyst  $(\text{Zn}^2\text{EtL})_n$  complex was prepared in situ by reacting the chiral ligand  $(S,S)\text{-}1$  with 2 equiv of diethylzinc. A series of  $\beta$ -pyrrole-substituted dihydrochalcones were usually ...

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reversal of  
enantioselectivity is  
realized with ligands  
derived from the same type  
of chiral source of L-  
ramipril, by slightly tuning  
the amide units.

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alkylation of pyrrole and  
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catalysis with primary ...

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by a Brønsted acid-catalyzed  
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mechanism. Broad

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functional?group tolerance has been demonstrated and preliminary studies suggest that 1,4?reduction of a putative indolyl carbocation is the dominant mechanistic pathway.

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Alkylation of the pyrrolyl  
ambident anion A series of  
experiments were carried out  
to find optimum conditions  
for C- and N-alkylation of  
the pyrrolyl ambident anion.  
While almost total C-  
alkylation could be  
obtained, isolation of a  
single alkylation product

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was not feasible.

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Pyrrole synthesis - Organic Chemistry

Conversion is 100% of isolated material in either case, although intermediate reaction times lead to inseparable mixtures of both isomers. These results are replicated if the Friedel-Crafts alkylation is performed on pyrrole-2-carboxaldehyde. If the synthesis is attempted



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as described above, prior distillation of pyrrole will give improved yields.

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