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anion. Nam-Chiang Wang, , Kang-Er Teo, and , Hugh J. Anderson

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Conversion is 100% of isolated material in either

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**Friedel-Crafts Alkylation of pyrrole via pyrrole-2 ...**

Pyrrole is very much less basic than secondary amines but much more acidic. Pyrrole is, however, still a very weak acid ( $pK_a = 17.5$ ). The nitrogen-bound proton can be abstracted from pyrrole by the use of strong bases such as sodium amide in liquid ammonia and n-butyllithium in hexane. Reaction of pyrrole with Grignard reagents results in the formation of halomagnesyl derivatives 170.

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Palladium-Catalyzed Direct C-H Alkylation of Electron-Deficient Pyrrole Derivatives. *Angewandte Chemie International Edition* 2013, 52 (23), 6080-6083. DOI: 10.1002/anie.201301154. Tara L. S. Kishbaugh.

**Alkylation Reactions of the Pyrrole Grignard Reagent1a ...**

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

**organic chemistry - Friedel-Crafts**

**Alkylation of Pyrrole ...**

Pyrrole is a heterocyclic aromatic organic compound, a five-membered ring with the formula C<sub>4</sub>H<sub>4</sub>NH. It is a colorless volatile liquid that darkens readily upon exposure to air.

Substituted derivatives are also called pyrroles, e.g., N-methylpyrrole, C<sub>4</sub>H<sub>4</sub>NCH<sub>3</sub>.

Porphobilinogen, a trisubstituted pyrrole, is the biosynthetic precursor to many natural products such as heme. Pyrroles are components of more complex macrocycles, including the porphyrinogens and products derived therefrom, including porph

**Pyrrole - Wikipedia**

Abstract Secondary role: Indole and pyrrole derivatives are alkylated with unactivated secondary aliphatic alcohols by a Brønsted acid-catalyzed redox chain reaction mechanism.

**Redox Chain Reaction—Indole and Pyrrole Alkylation with ...**

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**Pyrrole Chemistry Xvii Alkylation Of The Pyrrolyl**

The potassium salts of indole, pyrrole, and 2,5-dimethylpyrrole were converted into -alkyl derivatives in high yield in dimethyl sulphoxide by use of iodomethane, iodoethane, 1-iodopropane, and benzyl bromide.

Dehydrohalogenation occurred when 2-iodo- and 2-bromo-2-methylpropane were used; when 2-iodopropane was em

**N-alkylation of indole and pyrroles in dimethyl sulphoxide ...**

Sefan Asamitsu, Yusuke Kawamoto, Fumitaka Hashiya, Kaori Hashiya, Makoto Yamamoto, Seiichiro Kizaki, Toshikazu Bando, Hiroshi Sugiyama,

Sequence-specific DNA alkylation and transcriptional inhibition by long-chain hairpin pyrrole-imidazole polyamide-chlorambucil conjugates targeting CAG/CTG trinucleotide repeats, *Bioorganic & Medicinal Chemistry*, 10.1016/j.bmc.2014.07.019, 22, 17, (4646 ...

**Sequence-Specific Alkylation by Y-Shaped and Tandem ...**

Pyrrole chemistry. XVII. Alkylation of the pyrrolyl ambident anion. Article. Feb 2011; Nam-Chiang Wang. Kang-Er Teo. Hugh J. Anderson. A series of experiments were carried out to find optimum ...

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Chiral Ni(II)-complexes of N,N'-dioxides show high catalytic activity and enantioselectivity in catalysing the asymmetric Friedel-Crafts C<sub>3</sub>-alkylation of 2,5-dimethyl pyrrole to β,γ-unsaturated α-ketoesters. A dramatic reversal of enantioselectivity is realized with ligands derived from the same type of chiral source of L-ramipril, by slightly tuning the amide units.

### Reversal of enantioselective Friedel-Crafts C3-alkylation ...

New hairpin polyamide-CPI (CPI=cyclopropylpyrroloindole) conjugates, compounds 12 - 14, were synthesized and their DNA-alkylating activities compared with the previously prepared hairpin polyamide, compound 1, by high-resolution denaturing gel electrophoresis with 450 base pair (bp) DNA fragments and by HPLC product analysis of the synthetic decanucleotide.

Abstract Secondary role: Indole and pyrrole derivatives are alkylated with unactivated secondary aliphatic alcohols by a Brønsted acid-catalyzed redox chain reaction mechanism.

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 polyamide-CPI (CPI=cyclo-  
 propylpyrroloindole) conju-  
 gates, compounds 12 -  
 14, were synthesized and

their DNA-alkylating activi-  
 ties compared with the  
 previously prepared hair-  
 pin polyamide, compound  
 1, by high-resolution dena-  
 turing gel electrophoresis  
 with 450 base pair (bp)  
 DNA fragments and by  
 HPLC product analysis of  
 the synthetic decanu-  
 cleotide.

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 ly**

The potassium salts of in-  
 dole, pyrrole, and 2,5-  
 dimethylpyrrole were con-  
 verted into -alkyl deriva-  
 tives in high yield in  
 dimethyl sulphoxide by  
 use of iodomethane, io-  
 doethane, 1-iodopropane,  
 and benzyl bromide. Dehy-  
 drohalogenation occurred  
 when 2-iodo- and 2-bro-

mo-2-methylpropane were  
 used; when 2-iodopropane  
 was em

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