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## **Xvii Alkylation Of**

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## **Pyrrole chemistry. XVII. Alkylation of the pyrrolyl ...**

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

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

## **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<sub>2</sub>H Alkylation of Electron-Deficient Pyrrole Derivatives. *Angewandte Chemie International Edition* 2013, 52

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(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  $\text{C}_4\text{H}_4\text{NH}$ . It is a colorless volatile liquid that darkens readily upon exposure to air. Substituted derivatives are also called pyrroles, e.g., N-methylpyrrole,  $\text{C}_4\text{H}_4\text{NCH}_3$ . 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

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with unactivated secondary aliphatic alcohols by a Brønsted acid-catalyzed redox chain reaction mechanism.

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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 ...**

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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 ...

## **Hugh J. Anderson's research works | Memorial University of ...**

Chiral Ni(II)-complexes of N,N'-dioxides show high catalytic activity and enantioselectivity in catalysing the asymmetric Friedel-Crafts C3-alkylation of 2,5-dimethyl pyrrole to  $\beta,\gamma$ -unsaturated  $\alpha$ -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,

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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.

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