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Friedel Crafts Alkylation and Acylation
Reaction Mechanism - Electrophilic Aromatic
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PDF (160 K) PDF-Plus (226 K) Citing articles; Pyrrole chemistry. XVII. Alkylation of the pyrrolyl ambident anion. Nam-Chiang Wang, , Kang-Er Teo, and , Hugh J. Anderson

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

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Pyrrole chemistry. XVII. 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 was not feasible.

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 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

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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 C²H 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 CuBr_2 and a novel bisphenol A-derived chiral catalyst at room

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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_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, $C_4H_4NCH_3$. 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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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 ...

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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 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.

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