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Pyrrole Chemistry Xvii Alkylation Of The Pyrrolyl

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Citing articles; Pyrrole chemistry.
XVII. Alkylation of the pyrrolyl
ambident anion. Nam-Chiang
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Alkylation of the pyrrolyl ...

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

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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

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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

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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,

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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

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formation of halomagnesy
derivatives 170.

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Alkylation Of The Pyrrolyl

Palladium-Catalyzed Direct C-H
Alkylation of Electron-Deficient
Pyrrole Derivatives. *Angewandte
Chemie International Edition*
2013, 52 (23), 6080-6083. DOI:

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10.1002/anie.201301154. Tara L.
S. Kishbaugh.

**Alkylation Reactions of the
Pyrrole Grignard Reagent1a**

...

Abstract: The asymmetric
Friedel–Crafts (FC) alkylation of

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pyrrole with nitroalkenes was mediated by 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

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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-

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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

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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

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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.

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

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

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air. Substituted derivatives are also called pyrroles, e.g., N-methylpyrrole, $C_4H_4NCH_3$.

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The potassium salts of indole, pyrrole, and 2,5-dimethylpyrrole

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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

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used; when 2-iodopropane was
em

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

Sefan Asamitsu, Yusuke
Kawamoto, Fumitaka Hashiya,

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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

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trinucleotide repeats, Bioorganic
& Medicinal Chemistry,
10.1016/j.bmc.2014.07.019, 22,
17, (4646 ...

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

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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

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**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 -

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Of The Pyrrole
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

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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,

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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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