

# Pyrrrole Chemistry XVII Alkylation Of The Pyrrolyl

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## Pyrrrole - Wikipedia

Pyrrrole 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

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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  $\alpha,\beta$ -unsaturated  $\beta$ -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.

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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.

Pyrrrole studies. XVII. Alkylation of pyrrolythallium(I ...

Pyrrrole 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.

Pyrrrole Chemistry XVII Alkylation Of The Pyrrolyl

Pyrrrole is very much less basic than secondary amines but much more acidic. Pyrrrole 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.

Alkylation Reactions of the Pyrrrole Grignard Reagent 1a ...

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organic chemistry - Friedel-Crafts Alkylation of Pyrrrole ...

PDF (160 K) PDF-Plus (226 K) Citing articles; Pyrrrole chemistry. XVII. Alkylation of the pyrrolyl ambident anion. Nam-Chiang Wang, , Kang-Er Teo, and , Hugh J. Anderson

Pyrrrole Chemistry XVII Alkylation Of

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

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

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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

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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 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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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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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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