

8-(Furan-2-yl)-4,5-dihydroacenaphtho[5,4-*d*]thiazole. Synthesis and Reactions of Electrophilic Substitution

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Abstract—Condensation of 1,2-dihydroacenaphthylen-5-amine with furoyl chloride in 2-propanol afforded *N*-(1,2-dihydroacenaphthylen-5-yl)furan-2-carboxamide, whose treatment with excess P₂S₅ in anhydrous toluene led to the formation of the corresponding thioamide, and the oxidation with potassium ferricyanide in alkaline medium by Jacobson procedure resulted in 8-(furan-2-yl)-4,5-dihydroacenaphtho[5,4-*d*]thiazole. The latter was brought into electrophilic substitution reactions: nitration, bromination, formylation, acylation. Depending on the reaction conditions either the furan ring or the acenaphthene fragment suffer the attack.

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