

THE CHEMISTRY OF ACETALS

M. A. Yurovskaya

A new book by L. A. Yanovskaya, S. S. Yufit, and V. F. Kucherov entitled The Chemistry of Acetals was published this year by Nauka. The chemistry of acetals is not touched upon in the well-known foreign multivolume publication The Chemistry of Functional Groups under the editorship of S. Patai, despite the fact that there is an issue dealing with carbonyl compounds. Nevertheless, the enormous synthetic possibilities of these compounds in the most diverse branches of organic chemistry are well known. The appearance of the book The Chemistry of Acetals, which contains a comprehensive bibliography (over 2250 entries), is therefore very beneficial.

The most diverse aspects of the application and some properties of acetals, the mechanisms of their formation and hydrolysis, synthetic methods, and reactions of the acetal group are examined in the book.

The significant role that acetals also play in the synthesis of various heterocyclic systems is also noted. Thus examples of the preparation of furans, coumarones, naphthofurans, pyrans, pyrylium and dioxolanium salts, dioxanes, pyrans, thiophenes, dithianes, oxathianes, pyrroles, indoles, pyridines, piperidines, quinolines, isoquinolines, pyrazoles, imidazoles, isoxazoles, oxazoles, thiazoles, triazoles, pyrimidines, naphthyridines, dihydropyridazines, and other systems by intramolecular and intermolecular cyclization of substituted acetals are presented.

Thus, in addition to the interest that the book arouses in all organic chemists, it is also useful for specialists doing research in heterocyclic chemistry.

LITERATURE CITED

1. L. A. Yanovskaya, S. S. Yufit, and V. F. Kucherov, The Chemistry of Acetals, Nauka (1975).

*Izd. Nauka, 1975.

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