

The Mechanism of the Heterogeneous Catalytic Monooxidation of Thiophene Derivatives at the S Position by Hydrogen Peroxide

I. T. Nagieva

Baku State University, Baku, Azerbaijan

e-mail: inara10@yahoo.com

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Abstract—A biomimetic catalytic reaction system for hetero-oriented monooxidation of heteroaromatic compounds was developed experimentally. The system consisted of two interacting synchronous reactions of the decomposition of H_2O_2 and substrate oxidation. The problem related to the preparation, isolation, and identification of thiophene derivative S-monoxides was solved.

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