Isomerizations of the Nitromethane Radical Cation in the Gas Phase

The concurrent isomerizations of the nitromethane radical cation to its aci-nitromethane and methylnitrite isomers, respectively, has been established based on metastable ion studies and collision activation mass spectrometry. The energy diagram for the ionized nitromethane/aci-nitromethane tautomeric system has been determined; the aci-nitromethane tautomer was found to be the more stable species by ca. 0.95 eV. Attempts to generate the neutral gaseous aci-nitromethane tautomer by low pressure pyrolysis are summarized.

A Kinetic and Thermodynamic Study of the Reaction of Hydrogen and Deuterium with FeTi at Low Pressures

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Problems of the Kinetic Evaluation of DTA Curves and Non-Isothermal Rate Curves of One-Step Reactions in Solution

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