Thematic Section: Theoretical Research Full Pa	ıper
--	------

Subsection: Physical Chemistry. Registration Code of Publication: 14-38-6-21

Publication is available for discussion in the framework of the on-line Internet conference "Butlerov readings".

http://butlerov.com/readings/ Contributed: August 08, 2014.

Accounting the concentration of complexes with hydrogen bonds during the kinetic description of reactions with associated compounds

© Alexander Ya. Samuilov, Nelly N. Shishkin, and Yakov D. Samuilov

Department of Synthetic Rubber Technology. Institute of Polymers. Kazan National Research Technological University. K. Marx St., 68. Kazan, 420015. Tatarstan Republic. Russia.

Phone: +7 (843) 231-95-89. E-mail: ysamuilov@yandex.ru

*Supervising author; *Corresponding author

Keywords: complexes with hydrogen bonds, reactivity, kinetic equations.

Abstract

It is shown that between the computed concentrations of the compounds, calculated under the assumption that all of the compounds are in monomeric form, the concentrations of individual associates (complexes with hydrogen bonds) showed a linear dependence. The fact of the possibility of using the calculated concentrations of substances forming associates in the kinetic equations can be an indication that the transformations involved associates.