Thematic Section: Physico-Chemical Research. **Short Communication**
Subsection: Phase Equilibrium. *Reference Object Identifier* – ROI: jbc-02/15-42-6-109
The article is published as a material of correspondence participation in International Scientific Forum "Butlerov Heritage-2015". http://foundation.butlerov.com/bh-2015/ *(English Preprint)*
Submitted on March 27, 2015.

Investigation of the phase equilibria in the system diphenyl – *n*-hexadecane

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Keywords: the differential scanning calorimetry, biphenyl, *n*-hexadecane, the phase equilibrium.

Abstract

The phase equilibria in the system diphenyl – *n*-hexadecane was considered. Melting temperature and composition of the eutectic were determined. Liquidus of the system was constructed according to the experimental data. Furthermore, the phase equilibrium was calculated by the method of Schroeder – Le Chatelier and physical and chemical properties of the eutectic composition's alloy were identified, such as the flash point and density. The dependence of the kinematic viscosity of the alloy of the eutectic composition at temperatures ranging from 25 to 50 °C was constructed.