

Study of heat effects of reactions of 6-nitro-1,2,4-triazolo[5,1-c]-1,2,4-triazine-7-on synthesis

© Grigory A. Artem'ev,^{1,2*} Dmitry S. Kopchuk,^{1,2+} Sergey V. Yakovlev,¹
Eugeny N. Ulomsky,^{1,2} Vladimir L. Rusinov,^{1,2} Oleg N. Chupakhin,^{1,2}
and Valery N. Charushin^{1,2}

¹ Technology Group. Postovsky Institute of Organic Synthesis of RAS (Ural Division).
Kovalevskoy St., 22., Akadimicheskaya St., 20. Ekaterinburg, 620990. Russia.

Phone/fax: +7 (343) 369-30-58. E-mail: dkopchuk@mail.ru

² Department of Organic Chemistry. Ural Federal University.

Mira St., 19. Ekaterinburg, 620002. Russia. Phone/fax: +7 (343) 375-45-01.

*Supervising author; +Corresponding author

Keywords: diazotization, heterocyclization, azo coupling, heat effect of reaction, reaction calorimetry, 6-nitro-1,2,4-triazolo[5,1-c]-1,2,4-triazine-7-on.

Abstract

Heat effects of reaction of 6-nitro-1,2,4-triazolo[5,1-c]-1,2,4-triazine-7-on synthesis were studied (this class of compounds is interesting due to the creation of new antiviral drugs) with using of reaction calorimetry system *FlexySys*. It is hardware and software system for automatically carrying out, documenting and measuring the heat flux produced by the reaction processes *SYSTAG* (Switzerland).