Thematic	Section:	Prepa	arative	Research		 	_ Anal	ytical	Revi	ew

Subsection: Organic Chemistry.

Reference Object Identifier – ROI: jbc-02/15-42-4-1

The article is published on materials of the report on "International Scientific Forum Butlerov Heritage – 2015". http://foundation.butlerov.com/bh-2015/ (English Preprint) Submitted on March 28, 2015.

Synthesis of partially hydrogenated nitrogen heterocycles. How does the heterocyclization on Ritter proceed?

© Yury V. Shklyaev,* Tatiana S. Vshivkova, Yulia S. Rozhkova, Olga G. Stryapunina and Andrew A. Smolyak

Institute of Technical Chemistry, Ural Branch of the Russian Academy of Sciences. St. Academician KorolevSt., 3. Perm, 614013. Russia. Phone: (342) 237-82-89. E-mail: yushka@newmail.ru

Keywords: Ritter reaction, nitrogen-containing heterocycles, spiro- σ -complex stabilization, 3,4-dihydroisoquinoline, spirain, neospiran.

Abstract

On the vast experimental material the authors propose the concept on of heterocyclization proceeding by Ritter reaction through the formation of spiro- σ -complex, the different ways of stabilization of which produce 3,4-dihydroisoquinolines, spirains, neospirains and other heterocyclic systems.

^{*}Supervising author; *Corresponding author