

Iminofuran Chemistry: VII.* Intramolecular Cyclization of 2-N-Aryl-Substituted Derivatives of 2-Amino-4-aryl-4-oxobut-2-enoic and 2-Amino-5,5-dimethyl-4-oxohex-2-enoic acids

**A. V. Tyuneva^a, N. M. Igidov^b, N. N. Koryagina^a, A. Yu. Borodin^b,
A. V. Zakhmatov^b, A. S. Makarov^b, Yu. C. Toksarova^b, and A. E. Rubtsov^a**

^aPerm State University, Perm, 61499 Russia

e-mail: Rubtsov@psu.ru

^bPerm State Pharmaceutical Academy, Perm, Russia

Received March 17, 2010

Abstract—The cyclization at the treatment of acetic anhydride of 4-aryl-2-arylamino-4-oxobut-2-enoic and 2-arylamino-5,5-dimethyl-4-oxohex-2-enoic acids was investigated furnishing derivatives of 5-aryl-3-aryl-imino-3*H*-furan-2-ones and 4-arylamino-2-*tert*-butyl-2,5-dihydro-5-oxofuran-2-yl acetate respectively. 2-N²-Methylene-substituted 4-aryl-2-hydrazino-4-oxobut-2-enoic and 5,5-dimethyl-2-hydrazino-4-oxohex-2-enoic acids cleanly underwent cyclization under the effect of acetic anhydride into 5-aryl-3-hydrazono-3*H*-furan-2-ones and 5-*tert*-butyl-3-hydrazono-3*H*-furan-2-ones.

DOI: 10.1134/S1070428011020163