

## 5-Amino-3-methylthio-1,2,4-triazole as a key intermediate in the synthesis of antiviral drug Triazavirin®: the synthesis on an industrial scale and quantitative determination by HPLC

© Andrey A. Tomasov, Gregory A. Artemiev,\* Dmitry S. Kopcuk,<sup>2+</sup> Vladimir L. Rusinov,<sup>2</sup> Eugeny N. Ulanski,<sup>2</sup> Oleg N. Chupakhin<sup>1,2</sup> and Valery N. Charushin<sup>2</sup>

<sup>1</sup>*Institute of Organic Synthesis m.a. I.Ya. Postovskogo UB RAS.  
Kovalevskaya St, 22/Akademicheskaya St., 20. Ekaterinburg, 620990. Russia.*

*Tel./Fax: +7 (343) 369-30-58. E-mail: dkopchuk@mail.ru*

<sup>2</sup>*Ural Federal University. World St, 19. Ekaterinburg, 620002. Russia.*

*Tel./Fax: (343) 375-45-01.*

\*Leader of the thematic course; <sup>+</sup>Corresponding author

**Keywords:** HPLC, 5-amino-3-methylthio-1,2,4-triazole, column “Kromasil”

### Abstract

Designed by hardware scheme of obtaining 5-amino-3-methylthio-1,2,4-triazole (the key intermediate product) during the synthesis of the antiviral drug "Triazavirin" on an industrial scale, as well as the methods of quantitative determination using the method of HPLC.