

Synthesis, structure of some nitrosoarenoles and 2-nitrosodiphenilamines. Cyclization of 2-nitrosodiphenilamines into phenazine-*N*-oxides.

© Elena A. Bocharova,⁺ Leonid M. Gornostaev,* and Nikolai V. Geets
Chemistry Department. V.P. Astaf'ev Krasnoyarsk State Pedagogical University.
Lebedeva St., 89. Krasnoyarsk, 660049. Russia.
Phone: +7 (391) 217-17-29. E-mail: gornostaev@kspu.ru

*Supervising author; ⁺Corresponding author

Keywords: 4-nitrosoarenoles, 2-nitrosodiphenilamines, nitroso-oxime tautomerism.

Abstract

Some nitrosoarenoles and 2-nitrosodiphenilamines were prepared by nitrosation of halogenphenoles, bromination and iodination of 4-nitrosoarenoles, amination of 3,5-dibromo-4-nitrosophenol and 3,5-dibromo-4-nitrosoanilines.

The structure of initial and final products (nitroso-oxime tautomerism) and protonation several of them was investigated by UV-, NMR ¹H-, NMR ¹³C-spectroscopy methods. It was shown that the state of tautomeric equilibrium depends on both of type of substituents and its position in the molecule. It is found out that 2-nitrosodiphenilamines are cyclized into corresponding phenazine-*N*-oxides.