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Synthesis ofazole derivatives based on 1,2,3-Dithiazoles with fungicidal activity

Abstract:

Fungicidal drugs are widely used in agriculture and in medical chemistry. Azoles can be attributed to such drugs with a systemic effect. Many drugs include several heterocyclic elements, which makes it possible to enhance the fungicidal effect of the compounds. It is known that 1,2,3-dithiazole derivatives have a wide range of biological activity. For the first time, we obtained compounds based on the initial Appel salt, the structure of which contains both a dithiazole fragment and a functional group of cyanothioanilides, a fragment of the collapse of the heterocyclic ring. The high fungicidal activity of target compounds and intermediate 4-chloro-N-aryl-1,2,3-dithiazole-5-imines was shown in vitro tests vs six species of phytopathogenic fungi.

Biography

Elizaveta is a 5th year student at the Mendeleev University of Chemical Technology and has been actively engaged in the chemistry of heterocycles, in particular azoles, for three years. She has published two scientific papers and actively participates in conferences at various levels.