Nucleophilic Substitution in 4-Bromo-5-nitrophthalodinitrile: IX. Synthesis of 4-(Morpholin-4-yl)-5-aryloxyphthalodinitriles and Copper Phthalocyanines Based Thereon

A. I. Fedotova^a, V. E. Maizlish^a, G. P. Shaposhnikov^a, C. N. Filimonov^b, and I. G. Abramov^b

 ^a Ivanovo State University of Chemical Technology, pr. Engel'sa 7, Ivanovo 153000 Russia e-mail: ttoc@isuct.ru
^b Yaroslavl' State Technical University, Yaroslavl', Russia e-mail: abramovig@ystu.ru

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Abstract—Nucleophilic aromatic substitution of bromine in 4-bromo-5-nitrophthalodinitrile with the morpholine residue and the subsequent substitution of nitro group with the aryloxy one yielded 4-morpholyl-5-aryloxyphthalodinitriles. From these substances octasubstituted copper phthalocyanines were synthesized, and their physicochemical properties were studied.

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