

Nucleophilic Substitution in 4-Bromo-5-nitrophthalonitrile: XIV.¹ Synthesis and Properties of 4,5-Bis[4-(1-methyl-1-phenylethyl)phenoxy]phthalonitrile and Phthalocyanines Therefrom

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Received May 12, 2016

Abstract—4,5-Bis[4-(1-methyl-1-phenylethyl)phenoxy]phthalonitrile was prepared by the nucleophilic substitution of the nitro group and bromine in 4-bromo-5-nitrophthalonitrile. The product was used to synthesize the corresponding octasubstituted phthalocyanine, as well as its magnesium, copper, zinc, cobalt, and nickel complexes. The spectral properties of the synthesized phthalocyanines were studied.

Keywords: 4-bromo-5-nitrophthalonitrile, nucleophilic substitution, metal phthalocyanines, electronic absorption spectra

DOI: 10.1134/S1070363216110165