

ABSTRACT

Water soluble phthalocyanine compounds of the formula $Pc(SO_2CH_2CH_2OSO_3H)_4$ have been prepared where Pc is the phthalocyanine radical containing metal. The synthesis is accomplished in two steps; first synthesizing the metal phthalocyanine complex (I) and then converting it into its derivative dye. In the intermediate steps, (I) is first reacted with chlorosulfonic acid to give phthalocyanine sulfochloride which in a subsequent reaction with chloroethanol and a final esterification with sulfuric acid yields the end product. These phthalocyanine compounds are suitable as water-soluble dyestuffs for dyeing the cellulose fiber containing hydroxyl groups to which these are applicable in a basic aqueous medium, and are subsequently fixed under heating to give a bright turquoise blue shade with excellent dyeing and fastness properties.