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Phosphorus, Sulfur, and Silicon and the Related Elements

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On Phosphorylation of Dihydric Phenols with Amines of Phosphoric and Phenylphosphonic Acids

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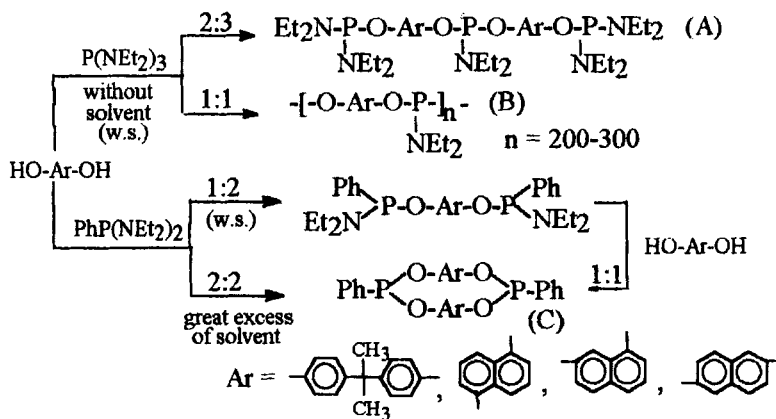
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With the aim to create macrocyclic phosphorus-containing heterocycles (new phosphorus crown-ethers) and corresponding polyesters the interaction between dihydric phenols and complete anides of phosphoric and phenylphosphonic acids was studied. It was shown that, according to reaction conditions and reagents ratio, the resulting products can have a linear structure, with oligo- (A) or polymeric (B) molecules, and a macrocyclic structure (C) alike : phospho(III)arylene crown-ethers obtained for example by the consecutive assembling of planned macrocyclic systems or by the direct interaction.



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