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### C-Phosphorylation of Compounds with the Electron-Rich Double Carbon-Nitrogen Bond

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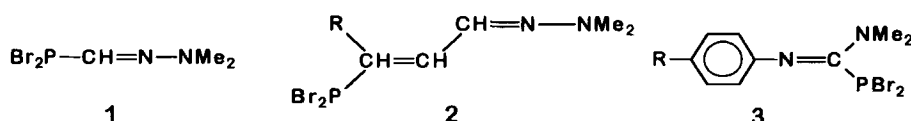
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## C-PHOSPHORYLATION OF COMPOUNDS WITH THE ELECTRON-RICH DOUBLE CARBON-NITROGEN BOND

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C-phosphorylation of N,N-dimethylhydrazones and N,N-dimethyl- N'-arylamidines by phosphorus tribromide was first accomplished. It directs to the formation of novel types of functional P(III) derivatives (1-3).



The N,N-dimethylhydrazono- or N,N-dimethylamidino groups can be used as the electrodonating substituents for the activation of heteroaromatic compounds in their reactions of electrophilic phosphorylation, what let to synthesize such phosphines as 4 and 5, benzazophosphole derivatives (6), heteroaromatic aldehydes(7) and other types of phosphorus compounds.

