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An Effective Route to a C-Phosphorylated Pyridazinone via use of Ph₂Li. Synthesis and Quantum-chemical Calculations

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Abstract

Reaction of Ph₂PLi and Ph₂PH with 4,5-dichloro-2-phenylpyridazin-3-one was studied. A bis-phosphorylated pyridazinone, 4,5-bis(diphenylphosphino)-2-phenylpyridazin-3-one was prepared. Quantum-chemical calculations were used to examine the electronic structure of the reagents and to evaluate the stability of probable reaction products.
