

## **A Convenient Two-Step Synthesis of Phosponium Salts from Hydroxyarylalkenylphosphine Oxides**

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### **Abstract**

Copyright © 2015 Taylor & Francis Group, LLC. A new two-step method for obtaining of phosponium salts from phosphine oxides was developed. The method includes a cyclization of the dialkyl-2-(2-hydroxy-5-chlorophenyl)-2-phenylethenylphosphine oxides caused by sulfinyl chloride followed by the ring opening under the action of Grignard reagent.

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### **Keywords**

cyclization, organomagnesium reagents, phosphine oxide, Phosponium salt, ring opening, sulfinyl chloride