

Title:

Developing an orthometallation organic synthesis laboratory activity with applications to agriculture.

Abstract:

The organolithiation of tertiary amides proves useful in the production of various herbicides to protect a variety of plants. The purpose of this project is to react a number of different secondary amines with o-toluoyl chloride followed by an organolithiation reaction to create different herbicides. These herbicides will have differing yields which we are interested to find the values attached to the changing secondary amines. All of this work will be used in creating an upper-level organic chemistry laboratory activity for fourth-year students.

References:

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