

N-Heterocyclic carbene copper(I) complex-catalyzed synthesis of 2-aryl benzoxazoles and benzothiazoles

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Abstract

A new and efficient synthesis of 2-arylbenzoxazoles and benzothiazoles using a copper N-heterocyclic carbene complex is described. In a simple protocol a variety of 2-substituted benzoxazoles and benzothiazoles were obtained via intramolecular coupling cyclization of 2-haloanilides/2-halothioanilides in good to excellent yields..