

Palladium acetate catalyzed synthesis of cycloalkylacetic acids by regioselective hydrocarboxylation of methylenecycloalkanes with formic acid and 1,4-bis(diphenylphosphino)butane.

El Ali, Bassam; Alper, Howard. Ottawa-Carleton Chem. Inst., Univ. Ottawa, Ottawa, ON, Can. Journal of Organic Chemistry (1993), 58(13), 3595-6.

Abstract

Methylenecycloalkanes, e.g., methylenecyclohexane, undergo selective hydrocarboxylation to cycloalkylacetic acids, e.g., cyclohexylacetic acid, catalyzed by palladium acetate and 1,4-bis(diphenylphosphino)butane in the presence of formic acid and carbon monoxide.