

Catalytic and selective synthesis of lactones and bis-lactones by palladium acetate/1,4-bis(diphenylphosphino)butane system under syngas conditions.

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Journal of Molecular Catalysis A: Chemical (2003), 204-205 97-105.

Abstract

The combination of palladium acetate and 1,4-bis(diphenylphosphino)butane (dppb) proved once again to form an effective catalytic system for the selective cyclocarbonylation of 2-allylphenols and bis-2-allylphenols. The reactions afforded five-, six- and seven-membered ring lactones and bis-lactones. The seven-membered ring lactones were predominant in most reactions.