

Source: Khodaei, M. M., [Alizadeh, A.](#), Afshar Hezarkhani, H. (2017). Simple Formylation of Aromatic Compounds Using a Sodium Formate/Triphenylphosphine Ditriflate System. *The Chemical Society of Japan*, 46, 840–843. doi:10.1246/cl.170152. [10.1246/cl.170152](#).

Simple Formylation of Aromatic Compounds Using a Sodium Formate/Triphenylphosphine Ditriflate System

Mohammad M. Khodaei*, [Abdolhamid Alizadeh](#)*, and Hadis Afshar Hezarkhani

Department of Organic Chemistry, Razi University, Kermanshah 67149-67346, Iran

Abstract

A new procedure was developed for formylation of arenes to produce aromatic aldehydes using a sodium formate/triphenylphosphine ditriflate system in ethanol at room temperature in good yields. The simplicity of the procedure, short reaction times, and mild reaction conditions are the other advantages of this metal- and carbon monoxide-free protocol.

Keywords: Formylation of arene, Metal- and CO-free protocol, Aromatic aldehyde.