

# Trifluoromethanesulfonic acid catalyzed friedel-Crafts alkylations of 1,2,4-trimethoxybenzene with aldehydes or benzylic alcohols.

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## Abstract

Trifluoromethanesulfonic acid in acetonitrile was found to efficiently catalyze Friedel-Crafts alkylations of 1,2,4-trimethoxybenzene with a variety of simple or functionalized aldehydes to provide di- or triarylmethanes in high yields. The operationally simple protocol allowed a short synthesis of the phenylpropanoid natural product (-)-tatarinoid C establishing its absolute configuration. Under the developed reaction conditions a benzylic alcohol instead of an aldehyde also underwent reactions with 1,2,4-trimethoxybenzene and other nucleophiles to afford unsymmetrically substituted compounds.

## Involved units

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## Identifier

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