

Catalytic Reduction of Esters

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Reduction of esters is a common reaction in organic chemistry, however, the classical methods using main-group hydrides are hazardous and they are accompanied by excessive formation of chemical waste. New ruthenium and osmium complexes from our laboratory are today's most efficient and selective catalysts facilitating the 'green' ester reduction process affording alcohols under H₂, under basic or neutral conditions at 40 – 100 °C, while using ≤ 0.05 mol% catalyst loading.



References:

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