

# Catalytic hydrogenation of N-benzylideneaniline using a new complex of ruthenium(II) derived from 2-ferrocenyl-1,8-naphthyridine

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2-Ferrocenyl-1,8-naphthyridine (1) and cis,cis,cis-dicarbonyl-dichloro-bis (2-ferrocenyl-1,8-naphthyridine) ruthenium(II) complex (2) have been synthesized and characterized by IR, <sup>1</sup>H-NMR spectroscopy and elemental analysis. The structure of the compounds was determined by X-ray analysis. The complex (2) showed catalytic activity in the hydrogenation reaction of N-benzylideneaniline by hydrogen transfer with conversions between 89% and 33% for catalyst/substrate relations 200/1 and 400/1. © 2011 Elsevier B.V.