

Abstract

Ruthenium complexes of the formula I



where

X is an anionic ligand,

R is hydrogen or a substituted or unsubstituted C₁-C₂₀-alkyl radical or C₆-C₂₀-aryl radical and

L¹ and L² are, independently of one another, uncharged electron donor ligands,

are prepared by

- (a) reaction of RuX₃ with a diene in a solvent based on one or more aliphatic secondary alcohols in the presence or absence of a reduction aid, and then with L¹ and L² in the presence of at least one coordinating weak base and hydrogen and, without isolation of intermediates,
- (b) subsequent reaction with compounds of the formula II



where R is as defined above, in the presence of a soluble chloride source.