

Title (en)

METHOD FOR FORMING A CARBON-CARBON OR CARBON-HETEROATOM BOND

Title (de)

VERFAHREN ZUR BILDUNG EINER KOHLENSTOFF-KOHLSTOFF- ODER KOHLENSTOFF-HETEROATOM-BINDUNG

Title (fr)

PROCEDE DE FORMATION D UNE LIAISON CARBONE-CARBONE OU CARBON E-HETEROATOME.

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Application

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Abstract (en)

[origin: WO2005023731A2] The invention relates to a method for forming a carbon-carbon or carbon-heteroatom bond by reacting an unsaturated compound carrying a leaving group and a nucleophilic compound, in the absence of a ligand. The aim of the invention is especially to form carbon-nitrogen bonds according to a method for the arylation of nitrogenated organic derivatives. According to the inventive method, a carbon-carbon or carbon-heteroatom bond is formed by reacting an unsaturated compound carrying a leaving group with a nucleophilic compound donating a carbon atom or a heteroatom (HE) that can substitute the leaving group, thus forming a C-C or C-HE bond, in the presence of a copper-based catalyst and a base. Said metal is characterised in that the reaction takes place in the absence of a ligand and in a nitrile-type solvent.

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