

Title (en)

ALTERNATIVE SYNTHESIS OF 1,1-SUBSTITUTED OLEFINS HAVING ELECTRON-WITHDRAWING SUBSTITUENTS

Title (de)

ALTERNATIVE SYNTHESE VON 1,1-SUBSTITUIERTEN OLEFINEN MIT ELEKTRONENZIEHENDEN SUBSTITUENTEN

Title (fr)

VARIANTE DE SYNTHÈSE D'OLÉFINES 1,1-SUBSTITUÉES, EFFECTUÉE AVEC DES SUBSTITUANTS ÉLECTRO-ATTRACTIFS

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Application

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Abstract (en)

[origin: WO2011051001A1] The present invention relates to a three-stage method for synthesizing 1,1-disubstituted olefins, comprising: in a first step, reacting a 1,3-diene with an olefin of the general formula (I), formula (I), where X is an electron-withdrawing substituent and Y a hydrogen atom or a halogen atom, where X and Y are not identical, to form an unsaturated cyclic compound containing the substituents X and Y; in a second step, substituting Y by a substituent W, selected from a C1-C12 hydrocarbon radical, a C2-C12 carboxylic acid ester group, a C3-C12 alkoxycarbonylalkyl group, a C2-C12 alkanoyl group, C4-C12 cycloalkane carbonyl group or C6-C12 (hetero)arene carbonyl group, a C1-C12 hydroxyalkyl group, a C2-C12 phosphonic acid ester group, a C1-C12 sulfonyl group, a C1-C12 sulfanyl group, a C1-C12 sulfonic acid ester group, an aldehyde group, a carbamoyl group, a halogen atom and a cyan group; and in a third step, separating a 1,1-disubstituted olefin of the general formula (II), formula (II), where X and W have the above meanings.

IPC 8 full level

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