Title (en)

METHOD FOR PRODUCING GAMMA,DELTA-UNSATURATED KETONES BY CARROLL-REACTION

Title (de)

VERFAHREN ZUR HERSTELLUNG GAMMA,DELTA-UNGESÄTTIGTER KETONE DURCH CARROLL-REAKTION

Title (fr)

PROCEDE POUR PREPARER DES CETONES GAMMA,DELTA-INSATUREES PAR REACTION DE CARROLL

Publication

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Application

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Abstract (en)

[origin: WO0014046A1] The invention relates to a method for producing gamma , delta -unsaturated ketones of general formula (I) by reacting an acetoacetic alkyl ester with an allyl alcohol or a propargyl alcohol of general formula (II) in which R<1> can represent H or a saturated or unsaturated, branched hydrocarbon radical which is optionally substituted by methoxy groups and which has 1 to 33 C-atoms, and the dashed line can represent another bond between the C-atoms carrying the same. The reaction is carried out at temperatures ranging from 150 to 220 DEG C in an optionally modified Carroll reaction, in the presence of an aluminum catalyst, and by distilling off the alkanol formed during the reaction. The inventive method is characterized in that an acetoacetic ester of general formula (III) is used as an acetoacetic alkyl ester in which R<2> represents an alkyl group with 1 to 4 C-atoms.

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