

Title (en)
PREPARATION OF alpha,beta-ETHYLENICALLY UNSATURATED CARBOXYLIC SALTS BY CATALYTIC CARBOXYLATION OF ALKENES

Title (de)
HERSTELLUNG VON ALPHA,BETA-ÄTHYLENISCH UNGESÄTTIGTEN CARBONSÄURESALZEN DURCH KATALYTISCHE CARBOXYLIERUNG VON ALKENEN

Title (fr)
PRÉPARATION DE SELS D'ACIDES CARBOXYLIQUES À INSATURATION ALPHA,BETA-ÉTHYLÉNIQUE PAR CARBOXYLATION CATALYTIQUE D'ALCÈNES

Publication
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Application
EP 12861287 A 20121227

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Abstract (en)
[origin: WO2013098772A1] In a process for preparing an alkalimetal or alkaline earth metal salt of an alpha,beta-ethylenically unsaturated carboxylic acid, a) a transition metal-alkene complex is reacted with CO₂ to give a metallalactone, b) the metallalactone is reacted with a base to give an adduct of the alkalimetal or alkaline earth metal salt of the alpha,beta-ethylenically unsaturated carboxylic acid with the transition metal complex, and c) the adduct is reacted with an alkene to release the alkalimetal or alkaline earth metal salt of the alpha,beta-ethylenically unsaturated carboxylic acid and regenerate the transition metal-alkene complex. The base is selected from alkalimetal or alkaline earth metal hydroxides and alkali metal or alkaline earth metal superbases. The alkene is, for example, ethene. The transition metal complex comprises, for example, nickel and a bidentate P,P, P,N, P,O or P,carbene ligand, such as 1,2-bis(di-tert-butylphosphino)ethane.

IPC 8 full level
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Citation (search report)
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