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(54) Title: METHOD FOR PREPARING CARBOXYLIC ACIDS BY PALLADIUM CARBONYLATION

(54) Titre : PROCEDE DE PREPARATION D'ACIDES CARBOXYLIQUES PAR CARBONYLATION AU PALLADIUM.

(57) Abstract: The invention concerns a method for preparing beta, gamma saturated or unsaturated carboxylic acids. More particularly, the invention concerns hydroxycarbonylation of an organic compound comprising a conjugated unsaturation, such as butadiene, through the action of carbon monoxide and water in the presence of a palladium catalyst. The resulting carboxylic acids are preferably pentenoic acids. The invention is characterised in that the reaction medium at the end of the hydroxycarbonylation step is treated with hydrogen to reduce the palladium present in palladium 2 + oxidation state to zero oxidation state and to recover the precipitated palladium.

(57) Abrégé : La présente invention concerne un procédé de préparation d'acides carboxyliques bêta, gamma insaturés ou saturés. Elle concerne plus particulièrement l'hydroxycarbonylation d'un composé organique comprenant une insaturation conjuguée, comme le butadiène, par action de monoxyde de carbone et d'eau en présence d'un catalyseur à base de palladium. Les acides carboxyliques ainsi obtenus sont de préférence, les acides penténoïques. Selon l'invention, le milieu réactionnel après la fin de l'étape d'hydroxycarbonylation est traité par l'hydrogène pour réduire le palladium présent à l'état d'oxydation 2 + en palladium à l'état d'oxydation zéro et récupérer le palladium précipité.

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