Title (en)

METHOD FOR THE PRODUCTION OF VINYL-ARENES, -HETEROARENES AND 1,3-DIENES FROM ARYL-, HETEROARYL- OR VINYL-CARBOXYLIC ACID DERIVATIVES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON VINYLARENEN, -HETEROARENEN UND 1,3-DIENEN AUS ARYL-, HETEROARYL- BZW. VINYLCARBONSÄUREDERIVATEN

Title (fr)

PROCEDE DE FABRICATION DE VINYLARENES, VINYLHETEROARENES ET 1,3-DIENES A PARTIR DE DERIVES D'ACIDES ARYLCARBOXYLIQUES, HETEROARYLCARBOXYLIQUES OU VINYLCARBOXYLIQUES

Publication

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Application

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Abstract (en)

[origin: WO03043958A1] The invention relates to a method for the production of vinyl-arenes, -heteroarenes and 1,3-dienes by Heck olefination of carboxylate esters, thioesters or amides with olefins and the elimination of carbon monoxide, in the presence of a transition metal catalyst. The carboxylate derivatives can be optionally applied in isolated form or generated in the reaction mixture from carboxylic acids. Said method permits the simple preparation of a number of valuable olefins from easily produced and handled carboxylate derivatives. The alcohols, thiols or amines produced as by-products can be converted again into carboxylate esters, thioesters or amides, by conventional methods with carboxylic acids and thus recycled.

IPC 1-7

C07B 37/04; C07C 1/32; C07C 1/20; C07C 1/207; C07C 253/30; C07D 213/06; C07D 333/08

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