

Title (en)

METHOD FOR THE PRODUCTION OF BORONIC ACIDS CARRYING CYANOALKYL, CARBOXYL AND AMINOCARBONYL GROUPS AND THEIR DERIVATIVES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON CYANOALKYL-, CARBOXYL- UND AMINOCARBONYLGRUPPEN TRAGENDEN BORONSÄUREN UND IHREN DERIVATEN

Title (fr)

PROCÉDÉ DE PRODUCTION D'ACIDES BORONIQUES PORTANT DES GROUPES CYANOALKYLE, CARBOXYLE ET AMINOCARBONYLE ET LEURS DÉRIVÉS

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Application

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Abstract (en)

[origin: WO2007121805A1] A process for the manufacture of aminocarbonyl boronic acids of formula (IV) by converting the compounds of formula (III) with a Bronsted base Y(OH)_nin a solvent or a solvent mixture, wherein Z represents an optionally substituted arylene, heteroarylene, alkene, heteroalkene, alkylidene, heteroalkylidene, alkenylidene, heteroalkenylidene, alkynylidene, arylalkylene, heteroarylalkylene, arylheteroalkylene, heteroarylheteroalkylene, alkylheteroarylene, heteroalkylheteroarylene, or alkylarylene group; Y represents a metal or ammonium cation of valence n with $0 < n < 5$; and B represents boronic acid, boronic acid ester, or a borate, or a boronic acid anhydride. The aminocarbonyl boronic acids of formula (IV) can be further hydrolyzed to form the carboxy boronic acid of formula (V).

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