

Title (en)  
METHOD FOR THE SYNTHESIS OF CITRIC ACID ESTERS

Title (de)  
VERFAHREN ZUR SYNTHESE VON CITRONENSÄUREESTERN

Title (fr)  
PROCÉDÉ DE SYNTHÈSE D'ESTERS DE L'ACIDE CITRIQUE

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Abstract (en)  
[origin: WO2013057110A1] The present invention discloses a targeted synthesis method for the synthesis of asymmetric monoesters and/or symmetrical diesters of citric acid through acidic esterification by using boric acid or a boronic acid as a catalyst. The boric/boronic acid simultaneously acts as a catalyst, as well as a "protecting group" for the tertiary carboxylic acid, and therefore specifically only the asymmetric monoesters or symmetrical diesters are created.

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