Heterogeneous Enantioselective Hydrogenation

Preface. Asymmetric adsorption on minerals.- Introduction.- Attempts of asymmetric adsorption on clays.- Asymmetric adsorption on quartz crystals.- Imprinting chiral adsorbents: specifically modified silica gels.- Heterogeneous hydrogenation catalysts based on quartz: General.- Asymmetric hydrogenation on metal-quartz catalysts.- General comments on adsorption and catalysis using quartz-crystals.- On the mechanism of "Quartz catalysis.- Evaluation of absolute configurations on data from "Quartz-catalysis.- Heterogeneous catalysts supported on chiral carriers.- Pd-silica catalysts.- Metal colloids as asymmetric catalysts.- Asymmetric template catalysis.- Metal catalysts supported on polymers.- Hydrogenation on catalysts based on Ni and bimetals: Background and elaboration of Ni catalysts modified with amino- and hydroxy acids.- Preparation variables for new nickel catalysts modified with tartaric acid.- Bimetallic and multimetallic modified hydrogenation catalysts.- Modified nickel and bimetallic catalysts.- Mechanism of enantioselective hydrogenation.- Asymmetric hydrogenation of 2-oxocarboxylic acid esters and unsaturated carboxylic acids on modified Pt and Pd catalysts: General.- Properties of catalysts.- Structure of the modifiers.- Structure of substrate.- Effects of solvents and additives.- Reaction variables.- On the mechanism of hydrogenation.- Conclusions.- Electrochemical enantioselective reduction: Abstract.-General.- Practical asymmetric catalytic reactions.- Asymmetric metal complex catalysts in industry.- Heterogenized metal complex catalysts.- Asymmetric hydrogenation of alpha-keto esters on chiral metal complexes.- Catalytic synthesis of pantolactone and other pharmaceuticals - using chiral homogeneous metal complexes.- References. EAN/ISBN : 9781402042966 Publisher(s): Springer Netherlands Discussed keywords: Hydrierung Format: ePub/PDF Author(s): Klabunovskii, Evgenii - Smith, Gerard V. - Zsigmond, Agnes

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