5554753

CATALYTIC ENANTIOSELECTIVE SYNTHESIS OF ALPHA-AMINO ACID DERIVATIVES BY PHASE-TRANSFER CATALYSIS

O'Donnell Martin; Wu Shengd; Esikova Irena; Mi Aiqiao Indianapolis, IN, UNITED STATES assigned to Indiana University Foundation

Described are improved processes for the enantioselective synthesis of alpha-amino acids which involve combinations of solvents, highly-mixed and low-temperature reaction conditions, and novel catalysts. Also described are novel catalysts and precursors to alpha-amino acid derivatives.

NEW CATALYST FORMULATIONS

5540833

SULFUR TOLERANT BIMETALLIC ZEOLITIC REFORMING CATALYSTS

Larsen Gustavo; Haller Gary L; Resasco Daniel E; Durante Vincent New Haven, CT, UNITED STATES assigned to Sun Company Inc (R&M)

New compositions of matter comprise a metal from the group consisting of platinum, rhodium and palladium, a metal from the first row of Group VIII of the Periodic Table and a nonacidic L-zeolite. A preferred composition is Pt-Ni/KL-zeolite. Such catalysts are prepared by coimpregnation of the zeolite with the metals. Methods of using the catalysts in reforming, aromatization or dehydrogenation are provided.

5543374

ISOMERIZATION CATALYST AND USE THEREOF IN ALKANE/CYCLOALKANE ISOMERIZATION

Wu An-hsiang Bartlesville, OK, UNITED STATES assigned to Phillips Petroleum Company

A catalyst composition is prepared by a method comprising impregnating alumina with at least one platinum compound, followed by calcining, reducing treatment, and heating with gaseous aluminum chloride and gaseous titanium thus-prepared catalyst tetrachloride. The composition is employed in the isomerization of saturated C4-C8 hydrocarbons (alkanes and/or cycloalkanes), preferably n-butane.

5543379

HYDROGENATION CATALYST, AND A METHOD FOR ITS PREPARATION AND USE, IN PARTICULAR FOR HYDROGENATION AND/OR HYDROGENOLYSIS OF CARBOHYDRATES AND POLYHYDRIC ALCOHOLS

Gubitosa Giusepp; Casale Bruno Novara, ITALY assigned to Montecatini Technologie S r l

A metallic catalyst composition on an inert support, suitable in particular for hydrogenolysis reactions of higher polyhydric alcohols, characterized in that it comprises the following relative to 100 parts of the catalyst: a) 0.5 to 5 weight % ruthenium; b) 1 to 10 weight % of a metal selected from the group consisting of palladium, platinum and rhodium; and c) 0.5 to 2.5 weight % copper, in which the copper content is lower than the content of the metal b). The catalyst is used in particular for producing