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5750778

FUNGICIDE INTERMEDIATES

Crowley Patrick Jelf; Lawson Kevin Robert; Smith Douglas John; Moseley Donn Warwick Crowthorne, UNITED KINGDOM assigned to Zeneca Limited

Certain fluoroalkanoic acids and derivatives, including 2-fluoroisobutyric acid and 2-fluoroisobutyryl chloride, useful as intermediates for fungicides, and methods of preparing them.

5750807

PRODUCTION OF HYROFLUOROCARBONS

Burgess Leslie; Butcher Jane Lesley; Ryan Thomas Anthony; Clayton Peter Paul Runcorn, UNITED KINGDOM assigned to Imperial Chemical Industries PLC

A process for the production of a hydro(halo)fluorocarbon which comprises heating an alpha-fluoroether in the vapor phase at elevated temperature. alpha-fluoroethers are obtained by reacting a non-enolisable aldehyde with hydrogen fluorideto form an intermediate and reacting the intermediate with an alcohol or a halogenating agent. Novel alpha-fluoroethers are also provided.

5753776

LIQUID-PHASE FLUORINATION

Bierschenk Thomas R; Juhlke Timothy J; Kawa Hajimu; Lagow Richard J Round Rock, TX, UNITED STATES assigned to Exfluor Research Corporation

This invention pertains to a method for liquid phase fluorination for perfluorination of a wide variety of hydrogen-containing compounds.

5756804

HOMOGENEOUS PROCESS FOR CARRYING OUT CROSS-COUPLING REACTIONS

Haber Steffen; Kleiner Hans-Jerg Germersheim/Rhein, GERMANY assigned to Hoechst Aktiengesellschaft

A process for preparing polycyclic aromatic compounds, which comprises reacting a) an aromatic boron compound with b) an aromatic halogen compound or an aromatic perfluoroalkylsulfonate in the presence of c) a base, d) a nickel or palladium catalyst, e) a phosphorus-containing ligand and f) a polyhydric alcohol, a sulfoxide or sulfone. The process gives high yields, in particular also in the coupling of chloroaromatics.

5756834

PROCESS FOR PREPARING FLUORINATED AROMATICS

Pasenok Serge; Appel Wolfgan Liederbach, GERMANY assigned to Hoechst Aktiengesellschaft

It is known to prepare fluorinated aromatic compounds of the formula I (*See Patent for Chemical Structure*) in which X, Y and Z can have the meaning specified in the description, by reacting aromatic compounds of the formula II (*See Patent for Chemical Structure*) in which X, Y and Z have the meaning specified for formula I, with fluorine in a reaction medium. According to the invention, the direct fluorination is carried out in reaction medium containing polyfluoroalkanesulfonic acids of the formula III(*See Patent for Tabular Presentation*) PS in which m, n and Y have the meaning specified in the description. By this means, it is possible, particularly advantageously to provide a process, which improves the known processes not only with

regard to the selectivity and the yield, but also with respect to the quality of the resulting products of the process in a manner not readily predictable. Fluorinated aromatic compounds of the formula I as intermediates for active compound synthesis.

5756841

PROCESS FOR PREPARING FLUOROXY-OR CHLOROXY-PERFLUOROACYLEFLUOR IDES

Desmarteau Derryl D; Anderson John David; Navarrini Walter Clemson, SC, UNITED STATES assigned to Ausimont S p A

fluoroxy-**Process** preparing for chloroxy-perfluoroacylfluorides FC(O)-RF-CF2OX, wherein RF perfluoroalkylenic or perfluoropolyoxyalkylenic chain. X is -F or -Cl, by fluorination or chlorofluorination of the corresponding perfluorodiacylfluoride FC(O)-RF-C(O) F with X-F in the presence of an hydrogenfluoride corresponding to the formula MeFy.zHF, wherein: Me is an alkaline or alkaline-earth metal, y is 1 when Me is an alkaline metal, or y is 2 when Me is an alkaline-earth metal; z is comprised between 0.5 and 4.

5756861

METHOD FOR PRODUCTION FOR PHENOL AND ITS DERIVATIVES

Panov Gennady Ivanovich; Kharitonov Alexandr Sergeevich; Sheveleva Galina Antolievan Novosibirsk, assigned to Monsanto Company

PCT No. PCT/RU95/00066 Sec. 371 Date Jan. 7, 1997 Sec. 102(e) Date Jan. 7, 1997 PCT Filed Apr. 12, 1995 PCT Pub. No. WO95/27691 PCT Pub. Date Oct. 19, 1995. A method for partial oxidation of aromatic compounds such as benzene, phenol,

chlorobenzene, fluorobenzene, toluene, ethylbenzene and the like, with a molar deficiency of nitrous oxide over a catalyst such as a ZSM-5 or ZSM-11 zeolite. The method is advantageous for producing phenol from benzene at high production rates, high nitrous oxide conversion and high selectivity toward the production of phenol.

5756868

PRODUCTION OF HYDROFLUOROCARBONS

Burgess Lesli; Ryan Thomas Anthon; Powell Richard Llewellyn Runcorn, UNITED KINGDOM assigned to Imperial Chemical Industries PLC

A process for the production of hydrofluorocarbons, in particular hydrofluoroalkanes such as difluoromethane, which comprises contacting an alpha-fluoro-ether, in particular a fluorinated dialkyl ether such as bis(fluoromethyl)ether in the liquid phase with a Lewis acid such as a fluoride of Nb, Sb, B, Ta, Al or Ti.

5756869

METHOD OF PREPARING HYDROFLUOROCARBON

Yoshikawa Satoshi; Takada Naoto; Oshio Hideki Kawagoe, JAPAN assigned to Central Glass Company Limited

The invention relates to a method of preparing a saturated hydrofluorocarbon represented by CnHpFz, by reducing a chlorofluorocarbon or hydrochlorofluorocarbon represented by CnHxClyFz by hydrogen in the presence of a catalyst having palladium and bismuth, wherein n is an integer within a range from 3 to 6, x is an integer within a range from 0 to 2n, each of y and z is an integer within a range from 1 to 2n+1,

x+y+z=2n+2 or 2n, p=x+y when x+y+z=2n+2, and p=x+y+2 when x+y+z=2n. The catalyst has a long lifetime in the reduction. According to the invention, conversion of the chlorofluorocarbon or hydrochlorofluorocarbon is high, and the saturated hydrofluorocarbon is prepared with a high yield and a high selectivity.

5759442

POLYIMIDE ALIGNMENT FILM FROM 2,2-BIS (3,4-DICARBOXYPHENYL)-HEXAFLUOR OPROPANE DIANHYDRIDE AND ORTHO-SUBSTITUTED AROMATIC DIAMINES FOR ACTIVE MATRIX LIQUID CRYSTAL DISPLAYS

Auman Brian Carl; Bohm Edga; Fiebranz Bernd Newark, DE, UNITED STATES assigned to E I du Pont de Nemours and Company; Merck Patent Gm

A polyimide alignment film based on 2,2-bis(3,4-dicarboxyphenyl)hexafluoropropane dianhydride and ortho-substituted aromatic diamines, such as 2,3,5,6-tetramethyl-p-phenylene diamine, 2,4,6-trimethyl-m-phenylene diamine and

1,5-diaminonaphthalene, providing high voltage holding ratio and high tilt angle when used in active matrix liquid crystal displays.

5760255

PROCESS FOR THE CONVERSION OF HYDROXYL GROUPS INTO THE CORRESPONDING FLUORINE COMPOUNDS

Vorbruml uggen Helmu; Bennua-Skalmowski Buml arbel Berlin, GERMANY assigned to Bayer AG

PCT No. PCT/EP95/04192 Sec. 371 Date Jun. 25, 1996 Sec. 102(e) Date Jun. 25, 1996 PCT Filed Oct. 25, 1995 PCT Pub. No. WO96/13474 PCT Pub. Date May 9, 1996. The invention is drawn to a process for the conversion of primary and secondary alcohols into the corresponding fluorine compounds in the presence of an organic solvent, equivalents of a strong base and perfluoroalkylsulphonyl fluorides, such perfluorobutanesulphonyl fluoride or higher homologues.



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