

Title (en)

METHOD FOR OXIDISING SUBSTITUTED HYDROCARBON DERIVATIVES

Title (de)

VERFAHREN ZUR OXYDATION VON SUBSTITUIERTEN KOHLENWASSERSTOFFDERIVATEN

Title (fr)

PROCEDE D'OXYDATION DE DERIVES HYDROCARBONES SUBSTITUES

Publication

EP 1003697 A1 20000531 (FR)

Application

EP 98941513 A 19980731

Priority

- FR 9801713 W 19980731
- FR 9709890 A 19970801

Abstract (en)

[origin: FR2766818A1] The invention concerns a method for controlled oxidation of a substituted hydrocarbon substrate, consisting in contacting said substituted hydrocarbon substrate with a source of oxygen in the presence of at least a catalyst selected among those whereof the active phase is obtained from a heteropolyacid of formula (I): Hf[C_aD_bE_cO_x] in which: C represents Mo and/or W; D represents phosphorus, arsenic, antimony, silicon, germanium and/or boron; E represents an element selected among vanadium optionally in combination with at least a metal of columns VA, VIIA, VIII or chromium; x being the oxygen number required to observe valences; A represents at least a monovalent cation; B represents VO<2+>, VO<3+>, an ion of an alkaline-earth metal or of one metal of columns VIIA, VIII, IB, IVB and VB of the periodic table of elements; f = a + alpha b with alpha being the ion B charge, i.e. equal to 2, 3 or 4; c varies between 5 and 20 inclusively; d varies between 1 and 5 inclusively; e varies between 1 and 9 inclusively; and said substrate has a chain > CH- bearing an electroattractive group (or atom). The invention is applicable to organic synthesis.

IPC 1-7

C07B 33/00; B01J 27/188; B01J 27/199

IPC 8 full level

B01J 27/186 (2006.01); **C07C 53/18** (2006.01); **B01J 27/188** (2006.01); **C07B 33/00** (2006.01); **C07B 41/04** (2006.01); **C07B 41/06** (2006.01); **C07C 41/01** (2006.01); **C07C 43/12** (2006.01); **C07C 51/215** (2006.01); **C07C 67/39** (2006.01); **C07C 69/63** (2006.01)

CPC (source: EP)

B01J 27/188 (2013.01); **C07B 33/00** (2013.01); **C07C 41/01** (2013.01); **C07C 51/215** (2013.01); **C07C 67/39** (2013.01)

Citation (search report)

See references of WO 9906338A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

FR 2766818 A1 19990205; FR 2766818 B1 19990910; AU 8986498 A 19990222; EP 1003697 A1 20000531; JP 2001512089 A 20010821; WO 9906338 A1 19990211; ZA 986754 B 20000131

DOCDB simple family (application)

FR 9709890 A 19970801; AU 8986498 A 19980731; EP 98941513 A 19980731; FR 9801713 W 19980731; JP 2000505103 A 19980731; ZA 986754 A 19980729