

Title (en)  
EPOXIDES PRODUCED BY THE OXIDATION OF OLEFINS WITH AIR OR OXYGEN

Title (de)  
EPOXIDEN DURCH OXIDATION VON OLEFINEN MIT LUFT ODER SAUERSTOFF

Title (fr)  
EPOXYDES PRODUITS PAR OXYDATION D'OLEFINES AVEC DE L'AIR OU DE L'OXYGENE

Publication  
**EP 0869843 A1 19981014 (DE)**

Application  
**EP 95942700 A 19951219**

Priority

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- DE 4447232 A 19941230
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- EP 9505027 W 19951219

Abstract (en)  
[origin: WO9620788A1] Compounds of the general formula (1):  $MxOy(L)z$  as catalysts for the selective epoxidisation of alkenes in which the indices x, y and z have the following meanings: x is a whole number from 1 to 3, y is a whole number from 1 to  $2x + 1$ , where Y is selected so that the sum of x + z gives a metal oxidation number of +5 (vanadium) or +6 (molybdenum, ruthenium), z is a whole number in the range from 2 to 2x, M is molybdenum, ruthenium or vanadium and L is an N, O or S donor ligand. The description also relates to heterogeneous catalysis for the selective oxidation of olefins in the presence of oxygen containing an inorganic or organic base stock and compounds of the general formula (1), and a process for the selective epoxidisation of alkenes of the formula (a) with atmospheric oxygen in the presence of a catalyst of the general formula (1).

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IPC 8 full level  
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