ABSTRACT OF THE DISCLOSURE

A heterogeneous catalyst used for producing an oxirane compound by reacting an olefinic compound with an organic hydroperoxide which catalyst is substantially insoluble in the reaction mixture, comprises at least one silicon compound, selected from the group consisting of silica and inorganic silicates, in chemical combination with an oxide or hydroxide of titanium, and is obtained by a process comprising the steps of

(a) impregnating the silicon compound with a titanium compound in a solvent for impregnation,

(b) removing the solvent for impregnation

(c) then washing the remaining composition with a washing solvent and removing the washing solvent, and

(d) then calcining the residual composition.

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