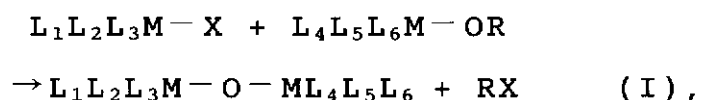


ABSTRACT

A process for producing a titanium-containing silicon oxide catalyst, comprising subjecting a titanium-containing silicon oxide prepared by non-hydrolytic condensation represented by the following formula (I) in a liquid phase in the absence of water to silylation; and a process for producing an oxirane compound by reacting an olefin type compound with a hydroperoxide in the presence of a catalyst produced by the above process:



wherein M represents Si or Ti, X represents a halogen group or carboxy group, R represents a hydrogen atom or hydrocarbon group, and L₁ to L₆ independently represent an alkoxy group, halogen group, carboxy group, hydrogen atom or hydrocarbon group.