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(54) Title: DIRECT EPOXIDATION PROCESS USING CARBONATE MODIFIERS

(57) Abstract: The invention is a process for epoxidizing an olefin with hydrogen and oxygen in the presence of a modifier and a catalyst comprising a noble metal and titanium zeolite. The modifier is (a) calcium carbonate in the presence of carbon dioxide or (b) ammonium bicarbonate. The process results in increased catalyst activity, selectivity to epoxide, and increased catalyst life.



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