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IMPROVED PROCESS FOR TITANIUM SILICALITE-CATALYZED EXPOXIDATION

ABSTRACT OF THE DISCLOSURE

The selectivity of an olefin epoxidation process catalyzed by titanium silicalite is improved by performing the epoxidation in the presence of minor amounts of nonbasic salts such as lithium chloride, sodium nitrate, potassium sulfate, and ammonium dihydrogen phosphate. For example, when hydrogen peroxide is reacted with propylene to form propylene oxide, non-selective ring-opening reactions of the propylene oxide are suppressed when low concentrations of a nonbasic salt are added to the hydrogen peroxide feed.

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