The preparation of epoxides from olefins and hydrogen peroxide or hydroperoxides

Abstract

A process for preparing epoxides from olefins and hydrogen peroxide or hydroperoxides in liquid phase using an oxidation catalyst based on titanium or vanadium silicates with a zeolite structure, wherein the concentration of hydrogen peroxide or of the hydroperoxides in the reaction mixture is in the range from 0.05 to less than 1% by weight during the reaction is described.