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ABSTRACT

Process for manufacturing an oxirane

Process for manufacturing an oxirane by reaction between an olefin and a peroxide compound in a reactor containing a liquid phase, in the presence of water, one or more organic solvents, a catalyst and one or more compounds for increasing the selectivity of the catalyst toward epoxidation reactions, in which:

- if the process is performed in batchwise mode, the liquid phase present in the reactor when the reaction starts
- if the process is performed continuously, all of the liquid phases that are fed continuously into the reactor

has/have a total organic solvent content of at least 0.1 g/kg and of not more than 675 g/kg.

Single figure.