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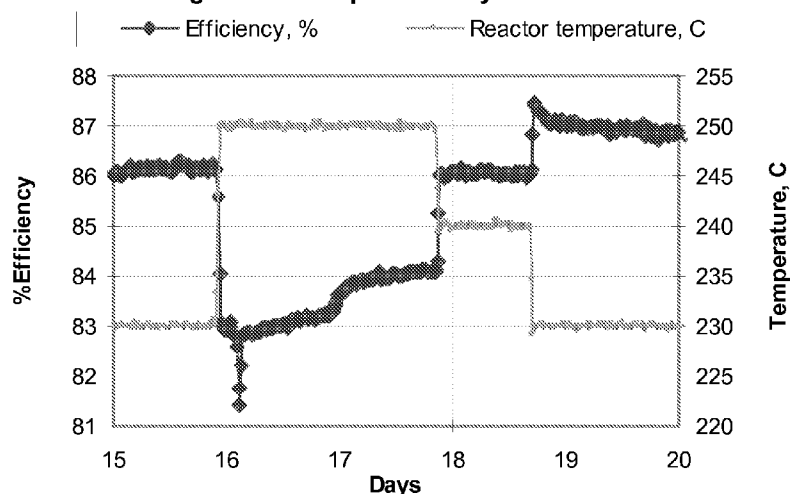
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(54) Title: METHODS FOR ENHANCING THE EFFICIENCY OF RHENIUM-PROMOTED EPOXIDATION CATALYSTS AND EPOXIDATION METHODS UTILIZING THESE

Figure 1. Example of catalyst activation



(57) Abstract: A method for enhancing the efficiency of a rhenium-promoted epoxidation catalyst is provided. Advantageously, the method may be carried out in situ, i.e., within the epoxidation process, and in fact, may be carried out during production of the desired epoxide. As such, a method for the epoxidation of alkylenes incorporating the efficiency-enhancing method is also provided, as is a method for using the alkylene oxides so produced for the production of 1,2-diols, 1,2-carbonates, 1,2-diol ethers, or alkanolamines.