

Abstract

METHOD FOR PRODUCING ETHYLENE CARBONATE AND ETHYLENE GLYCOL

A method for producing ethylene carbonate comprises the steps of obtaining a reaction solution containing ethylene carbonate by reacting carbon dioxide and ethylene oxide in the presence of a catalyst and purifying produced ethylene carbonate by means of crystallization, the method comprising extracting a solution containing the catalyst from the reaction solution, adding water to the extracted solution in an amount of not less than 20 times by weight an amount of the catalyst dissolved in the extracted solution to deposit undissolved matters, removing the deposited undissolved matters from the extracted solution, and then circulating the solution to the reaction solution. Accordingly, it is possible to efficiently produce ethylene carbonate from which any colored component is removed. Further in an ethylene glycol production process, the operation can be performed stably for a long period of time while avoiding the clog-up or blockade.

No figure