

Abstract

METHOD FOR IMPROVING REACTION YIELD

5 Provided is a method for improving a reaction yield. By using the method of the present invention, after a reaction product leaves a catalyst bed, an inert substance with a low temperature is sprayed, and through heat absorption and vaporization processes of the inert substance, the temperature of the reaction product drops rapidly when staying in a catalyst cushion layer at a discharge end of a fixed bed reactor, or in
10 a space formed by the catalyst cushion layer at the discharge end of the fixed bed reactor and a reactor head, or in a space formed by a tube plate at the discharge end of the fixed bed reactor and the reactor head; and at the same time, the residence time of the reaction product staying in the catalyst cushion layer at the discharge end of the reactor, or in the space formed by the catalyst cushion layer at the discharge end of the
15 fixed bed reactor and the reactor head, or in the space formed by the tube plate at the discharge end of the fixed bed reactor and the reactor head is greatly shortened due to the entrance of the inert substance in a gaseous state, such that the phenomenon of increasing by-products caused by long-term residence of the reaction product at a high temperature is avoided, and thus the reaction yield is greatly improved.

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(Fig. 1)