

ABSTRACT

Provided is a method for producing acetic acid, which suppresses catalyst precipitation and accumulation in an evaporator, can efficiently recycle catalysts to a reaction vessel, and can contribute to maintenance and improvement in acetic acid productivity and securing of safety operation. In the method, the evaporator has a catalyst precipitation and accumulation prevention structure: (a) structure where inclination angle θ of inside wall surface of an inverted truncated conical cylindrical connection portion is 5° to 85° ; and/or (b) structure where a vortex breaker comprising a plate-like vortex breaker main body and a leg is disposed such that the vortex breaker main body covers right above the connection portion of an evaporator bottom part to a residual liquid stream recycle line, and linear velocity v of the residual liquid stream passing through a gap between the vortex breaker main body and the evaporator bottom part is larger than 10 m/h.

Selected Drawing: Figure 2