

Abstract of the Disclosure

Provided is a process for producing acrylic acid stably at a high yield over a long period of time by subjecting acrolein or acrolein-containing gas to catalytic vapor phase oxidation. The above process is characterized by controlling the reaction so that the following equations (1) and (2) are satisfied:

$$1^{\circ}\text{C} \leq T_0 - T_1 \leq 15^{\circ}\text{C} \quad (1)$$

$$T_1 < T_2 \quad (2)$$

wherein T_0 represents a temperature of acrolein or the acrolein-containing gas in an inlet of a catalyst layer; T_1 represents a temperature in an inlet part of the catalyst layer; and T_2 represents a temperature in an outlet part of the catalyst layer.

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