

Abstract of the Disclosure

As an improvement for the process for production of acrylic acid by subjecting acrolein or an acrolein-containing gas to gas-phase oxidation with molecular oxygen in a fixed bed multitubular reactor, there is provided a novel process capable of producing acrylic acid at a high yield by suppressing the generation of heat spots in catalyst or the build-up of heat in hot spots of catalyst. The process comprises filling, in each of reactor tubes, two or more kinds of catalyst particles of different volumes so as to form a plurality of catalyst layers in the axial direction of the tube in such a manner that the particle volume of catalyst layer becomes smaller as the position of catalyst layer changes from the raw material gas inlet side of the tube to the raw material gas outlet side, each catalyst particle comprising, as the active component, a compound oxide containing at least Mo and V.

THIS SHEET HAS BEEN  
REPLACED

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