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Abstract of the Disclosure

A method for producing acrylic acid from propylene at high efficiency by two-stage catalytic oxidation using a single fixed bed shell-and-tube heat exchanger type reactor is provided. The method comprises dividing the shell space of said reactor into an upper space and lower space with a partition plate, allowing a heating medium to circulate in each of the spaces substantially independently of each other, and carrying out the vapor phase oxidation under specific conditions. Said specific conditions including providing a first stage catalyst layer at lower portion of each of the reaction tubes, a second stage catalyst layer at upper portion thereof and an inert substance layer therebetween, and making void ratio of the inert substance layer 40-99.5%

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