

METHOD FOR PRODUCING UNSATURATED ALDEHYDE AND/OR
UNSATURATED CARBOXYLIC ACID

ABSTRACT

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An unsaturated aldehyde and/or an unsaturated carboxylic acid is produced in a satisfactory yield by catalytic vapor phase oxidization of at least one compound selected from the group consisting of propylene, isobutylene and tert-butyl alcohol at a good conversion. The oxidation
10 reaction is conducted by filling two or more catalysts composed of specific mixed oxides differing from each other in terms of the kinds and/or content ratios of the constituent metal elements, the catalysts having been prepared by drying an aqueous solution or an aqueous slurry containing the components of the catalyst, followed by calcination in an atmosphere of a gas
15 containing molecular oxygen and subsequent heat treatment in the presence of a reducing material, into a reaction tube so that the catalyst activity increases from an feedstock gas inlet toward a feedstock gas outlet and then introducing a feedstock gas into the reaction tube.