

**CATALYSTS FOR PRODUCTION OF UNSATURATED ALDEHYDE  
AND UNSATURATED CARBOXYLIC ACID AND A PROCESS FOR  
PRODUCING UNSATURATED ALDEHYDE AND UNSATURATED  
CARBOXYLIC ACID USING THE CATALYSTS**

Abstract of the Disclosure

Improved catalysts for use in vapor phase oxidation of at least one compound selected from the group consisting of propylene, isobutylene, t-butanol and methyl-t-butyl ether with molecular oxygen or a molecular oxygen-containing gas to produce the corresponding unsaturated aldehyde and unsaturated carboxylic acid are provided. The improved catalysts are compositions comprising (A) a complex oxide containing as essential components molybdenum, bismuth and iron, which is known per se as a catalyst for said reaction and (B) a complex oxide containing cerium and zirconium as the essential components. When the improved catalysts are used, the production operation of unsaturated aldehyde and unsaturated carboxylic acid can be continued stably for over prolonged period.



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