

Coated catalysts for the catalytic gas-phase oxidation of
aromatic hydrocarbons

5 Abstract

A coated catalyst for the catalytic gas-phase oxidation of aromatic hydrocarbons comprises, on an inert nonporous support, a catalytically active composition comprising a defined amount of
10 vanadium oxide, titanium dioxide, a cesium compound, a phosphorus compound, and antimony oxide, wherein the catalytically active composition is applied in two or more layers and where relative to the inner layer or inner layers the outer layer has an antimony oxide content which is from 50 to 100% lower and wherein
15 the amount of catalytically active composition of the inner layer or layers is from 10 to 90% by weight of the amount of catalytically active composition, and can be used for preparing carboxylic acids and/or anhydrides, in particular phthalic anhydride; also specified is a production process for such
20 catalysts.

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