

PROCESS FOR THE CARBONYLATION OF ALLYLIC BUTENOLS
AND OF THEIR ESTERS

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ABSTRACT

The present invention relates to the carbonylation with the aid of carbon monoxide of allylic butenols and/or of their carboxylic esters.

It consists more precisely in reacting carbon monoxide with at least one of the said allylic butenols and carboxylic esters, at elevated temperature, at a pressure greater than atmospheric pressure and in the presence of an iridium catalyst and of an iodinated or brominated promoter, the promoter/iridium molar ratio being between 0.1:1 and 20:1.

This process makes possible the preparation of pentenoic acids, in particular 3-pentenoic acid, which may itself be hydroxycarbonylated by the carbon monoxide and the water to adipic acid.