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(54) Title: PURIFICATION PROCESS OF ALLYL ACETATE VIA ALLYL DIACETATE DECOMPOSITION

(57) Abstract: A process for purifying an acetoxylation mixture is disclosed. Allyl acetate, water, acetic acid, and from 0.1 to 10 wt.% allyl diacetate are contacted in the vapor phase with a solid acidic catalyst under conditions effective to decompose the allyl diacetate and generate an intermediate stream comprising allyl acetate, water, acetic acid, and acrolein. Acrolein is then removed from the intermediate stream, preferably by distillation, to give an allyl acetate-containing product stream. Usually, this product stream is then hydrolyzed to produce allyl alcohol. The invention includes processes in which propylene first reacts with oxygen and acetic acid in the presence of a noble metal catalyst to generate the acetoxylation mixture.