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(54) Title: LIQUID-PHASE OXIDATION OF METHACROLEIN WITH GOLD BASED CATALYSTS

(57) Abstract: A method for preparing methacrylic acid from methacrolein. The method comprises contacting a liquid mixture comprising methacrolein and water in the presence of oxygen with a heterogeneous catalyst comprising a support and gold; wherein the support comprises an oxide selected from γ -, δ -, or θ -alumina, magnesia, titania, zirconia, hafnia, vanadia, niobium oxide, tantalum oxide, ceria, yttria, lanthanum oxide, zinc oxide or a combination thereof.



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