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(54) **Title:** A PROCESS FOR PRODUCING HYDROCARBONS, AND A CATALYST SUITABLE FOR USE IN THE PROCESS

(57) **Abstract:** The invention relates to a novel process for producing hydrocarbons, which process comprises contacting a mixture of carbon monoxide and hydrogen at elevated temperature and pressure with a catalyst comprising a Group VIII metal supported on a carrier, which Group VIII metal is present at least partly in metallic form, and which catalyst further comprises inorganic phosphate in a quantity of at least 0.05 %w, calculated as elemental phosphorus relative to the weight of the catalyst; a novel catalysts which comprises, supported on a carrier, a Group VIII metal selected from nickel, cobalt, iron and ruthenium, and a further metal selected from manganese, vanadium, zirconium and rhenium, which catalyst further comprises inorganic phosphate in a quantity of at least 0.05 %w, calculated as elemental phosphorus relative to the weight of the catalyst; and a process for preparing the novel catalyst composition.