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A PROCESS FOR THE EPOXIDATION OF HYDROCARBONS

ABSTRACT OF THE DISCLOSURE

The present invention relates to a process for the epoxidation of hydrocarbons. This process comprises reacting at least one hydrocarbon with oxygen or air or nitrous oxide or other gaseous oxidants, in the presence of a mixture comprising at least two elements selected from the group consisting of Sc, Y, Ti, Zr, Hf, V, Nb, Ta, Cr, Mo, W, Re, Fe, Co, Ni, Sn, Pb, Sb, Bi and Se, on a support with a BET surface area of less than 200 m²/g. The present invention also relates to catalysts suitable for the epoxidation of hydrocarbons, wherein the catalyst comprises a mixture comprising at least two metals selected from the group consisting of Sc, Y, Ti, Zr, Hf, V, Nb, Ta, Cr, Mo, W, Re, Fe, Co, Ni, Sn, Pb, Sb, Bi and Se, on a support with a BET surface area of less than 200 m²/g.