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(54) **Title:** PROCESS FOR CONVERTING PARAFFIN TO OLEFIN AND CATALYST FOR USE THEREIN

(57) **Abstract:** The invention relates to a process for converting paraffin to olefin comprising the following steps: (a) providing a hydrocarbon feedstock containing at least one paraffin having 1 to 12 carbon atoms and at least one olefin having 2 to 12 carbon atoms; (b) providing a catalyst containing at least one Group VIA and/or Group VIIA transition metal on a solid support; (c) pre-treating the catalyst by contacting the catalyst with at least one reducing gas and at least one oxidizing gas; and (d) contacting the hydrocarbon feedstock and the pretreated catalyst at a temperature in the range of 200°C to 600°C, preferably 320°C to 450°C and to a catalyst for use therein.



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