

Abstract

To provide a catalyst capable of producing an unsaturated hydrocarbon with high selectivity in dehydrogenation of an alkane, a method for producing the same, and a method for
5 producing an unsaturated hydrocarbon. A catalyst in which a transition metal and carbon are supported on a carrier, and the carbon includes fibrous carbon. The catalyst is brought into contact with a mixed gas containing an alkane and carbon dioxide to produce an unsaturated hydrocarbon from the alkane.

Fig. 1 accompanies abstract