

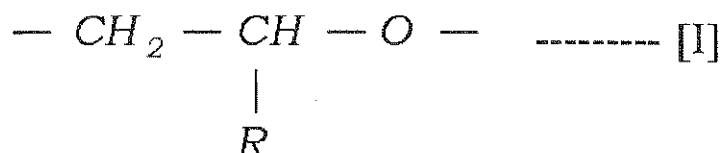
ABSTRACT

An object of the present invention is to provide solid catalyst component for manufacturing an olefin polymer having an excellent particulate morphology without the concern of causing fouling, and a polymerization of olefin in the presence of said solid catalyst component.

A solid catalyst (K) for olefin polymerization of the invention is characterized by meeting the following requirements [1] and [2]:

[1] a loss of ignition is 30 wt% or less as measured on a differential thermogravimeter; and

[2] after treating the catalyst with water vapor of room temperature and then contacting it with acetonitrile, a component eluted into the acetonitrile comprises a compound having a molecular skeleton represented by the following general formula [I].



(R in the above formula [I] is a hydrogen atom or an alkyl group having 1 to 12 carbon atoms.)