

A catalyst and a method for cracking hydrocarbons

Abstract

The invention discloses a catalyst and a method for cracking hydrocarbons. The catalyst comprises, calculated by dry basis,
5 10~65wt% ZSM-5 zeolite, 0~60wt% clay, 15~60wt% inorganic oxide binder, 0.5~15wt% one or more metal additives selected from the metals of Group VIII B and 2~25wt% P additive, in which the metal additive is calculated by metal oxide and the P additive is calculated by P_2O_5 . The method for cracking hydrocarbons using this catalyst
10 increases the yield of FCC liquefied petroleum gas (LPG) and the octane number of FCC gasoline, as well as it increases the concentration of propylene in LPG dramatically.

Figure 1