

Abstract

The present invention refers to a method and device for preparing propylene and C4 hydrocarbons from oxygen-containing compounds. By means of circulating 80 wt.% or more of the hydrocarbons with 5 or more carbons in the product into a catalytic cracking lift pipe to perform a cracking reaction to generate a product containing propylene and C4 hydrocarbons, the method improves the reaction rate of ethylene alkylation, and the unit volume production capacity of reactor is high.