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Pretreatment of MFI Type Zeolites with Ethylene to Enhance Their Catalytic Activities for Dehydration of Ethanol

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The effects of the pretreatment of various types of zeolites such as H-ZSM5, H-mordenite, H-beta, HY and gallosilicate with ethylene on their activities for the dehydration of ethanol at low temperatures ranging from 473 K to 503 K were investigated. The activities of MFI type zeolites were enhanced by their pretreatment with ethylene, whereas the activities of the other zeolites were not improved.

Keywords: MFI type zeolite, Pretreatment, Ethylene, Dehydration, Ethanol

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