

Catalytic Isomerization of n-Alkanes by Intra-zeolite Frustrate Lewis Pairs

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Isomerization of linear C5- and C6 alkane is very important and value additive process in petrochemical industry. Catalytic hydro-isomerization normal C5 and C6 by Frustrated Lewis Pairs (FLPs) within zeolite nanopores has been investigated by in operando spectroscopies and NMR-MAS. The reaction mechanism and converted product distribution by intra-zeolite FLPs with variation of zeolite will be presented and discussed.