

Study on the isomerization activity for zeolites and aluminum chloride catalyst

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The isomerization activity of zeolites and aluminium chloride catalyst was compared on catalytic endo- to exo- isomerization of hydrogen saturated dicyclopentadiene. It was observed that the reaction activity on zeolites depend on acidity and pore size. Also, activity was in inverse proportion to decreasing of Si/Al ratio. At the same activity the aluminium chloride catalyst showed lower temperature and shorter time on stream than zeolite catalysts. Still now the aluminium chloride catalyst was more active than zeolites. However, considering of environmental problems, corrosion, and treatment can make the zeolite catalyst substitute the aluminium chloride catalyst.