Catalytic Process For Isomerisation of Naphtha (C_7+ Hydrocarbon) Streams

Reformer makes the one-third of the gasoline pool with 60 to 70 vol% of aromatic content to qualify high-octane quality for fuel applications. With the environment restrictions on fuel quality especially on aromatics encourage production of alternative high-octane hydrocarbons for filling the octane gap caused by less aromatics in gasoline, where, isomerization of C7+ branched paraffins emerge as a suitable solution. CSIR-IIP has developed a catalyst for the production of iso-paraffins from C7+ feedstock. The catalyst is robust for handling for operation, reaction-regeneration cycles and constant performance observed in the studied period of 400 hours. At the present scenario of the process has wide scope for industrial applications.

Potentiality and Benefits Envisaged

- Suitable for the processing of reformer feed with low N+2A composition
- Complimentary to reformer to substantiate octane as alternative to aromatics
- Can integrate with existing reformer for processing of paraffin rich heavy naphtha for isomerization