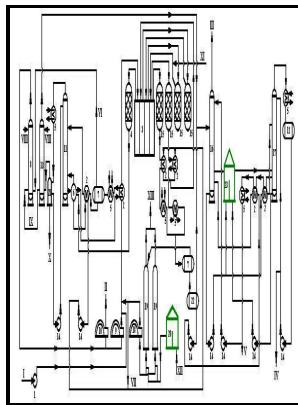


# Catalytic naphtha reforming.

**Marcel Dekker - Catalytic Reforming**



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Notes: Includes bibliographical references and index.

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## Progress in catalytic naphtha reforming process: A review

Similar to aromatics, branched paraffins have high octane ratings. The lumping technique is used extensively for reducing complexities so that the lumps and reaction pathways that properly describe the reforming system and kinetic rate parameters do not depend on feedstock composition. Fixed-bed units vs CCR reformers The conventional CRU type is the SR fixed-bed reforming unit, which is used for limited octane improvement.

## Catalytic Naphtha Reforming Process The Petro Solutions

Table 3-7 shows the properties of feed and products from Chevron Rheiniforming process. Reactions in catalytic naphtha reforming are elementary and Hougen-Watson Langmuir-Hinshelwood type reaction rate expressions are used to describe the rate of each reaction.

## Catalytic Reforming Yields, Advantages, and Disadvantages

Cyclic catalytic reformers serve to extend the period between required shutdowns.

## A naphtha reforming process development methodology based on the identification of catalytic reactivity descriptors

These aromatics are important intermediates for the production of many chemicals.

## Catalytic Reforming Yields, Advantages, and Disadvantages

However, hydrocracking long-chain molecules can produce C6, C7, and C8 hydrocarbons that are suitable for hydrode-cyclization to aromatics. Naphthalene Dehydrogenation and Paraffin dehydrocyclization are favored by high temperature and low pressure while hydrocracking, demethylation, and aromatic dealkylation require high pressure and high temperature.

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