

ABSTRACT

The present application discloses a naphtha to aromatics device and method. The naphtha to
5 aromatics device comprises a naphtha to aromatics reactor (1), a regenerator (2), and a light
hydrocarbon aromatization reactor (3). In the method for producing aromatics from naphtha, a
metal molecular sieve bifunctional catalyst is employed. Under the action of the catalyst in the
naphtha to aromatics reactor (1), naphtha is converted into a product gas containing aromatics,
light alkanes, and other components. Light alkanes and C₃, C₄, C₅ hydrocarbons separated from
10 the product gas are further converted into aromatics and other components in the light
hydrocarbon aromatization reactor (3).

Fig. 1 for publication