

PROCESS FOR PRODUCING AROMATIC COMPOUND

ABSTRACT

[Task] In a method for producing an aromatic compound by a catalytic reaction using a lower hydrocarbon as a raw material, yields of hydrogen and the aromatic compound are to be improved, and a stable catalytic activity is to be maintained.

[Solving Means] Molybdenum or a molybdenum compound is supported on metallosilicate, and then a carbonization treatment is conducted, thereby obtaining a lower-hydrocarbon aromatizing catalyst. A reaction gas containing a lower hydrocarbon is brought into contact with this catalyst, thereby producing an aromatic compound. Upon this, while allowing a non-oxidizing gas (except hydrocarbon gas) to flow, a temperature rising is conducted to a catalytic reaction temperature. When it reaches the catalytic reaction temperature, the reaction gas is allowed to flow, and the reaction gas is brought into contact with the catalyst, thereby obtaining an aromatic compound such as benzene or naphthalene.

Fig. 1