

ABSTRACT

Provided is a method of producing piperylene from a hydrocarbon mixture derived from a petroleum fraction having a carbon number of 5. The hydrocarbon mixture has a piperylene proportional content of not less than 60 mass% and not more than 80 mass% and has a cyclic hydrocarbon proportional content of not less than 20 mass% and not more than 40 mass%. The method of producing piperylene includes a membrane separation step of performing membrane separation of the hydrocarbon mixture using a zeolite membrane to obtain a separated product in which piperylene is enriched.