

METHOD FOR PRODUCING HYDROCARBON MATERIAL

ABSTRACT

A method for producing a hydrocarbon material from a C₅ raffinate which is obtained as an extracted residual oil after separating at least part of the isoprene by extraction distillation from a C₅ fraction which is produced as a byproduct when thermally cracking naphtha to produce ethylene and has C₅ organic compounds as main ingredients comprising, a gas-phase thermal cracking step of gasifying the C₅ raffinate to thermally crack at least part of the C₁₀ diolefins which are contained in the gasified C₅ raffinate, a desulfurization step, after the gas-phase thermal cracking step, of removing at least part of the sulfur-containing ingredients which are contained in the gasified C₅ raffinate after the gas-phase thermal cracking step in the gas-phase state, and a hydrogen addition step, after the desulfurization step, of hydrogenating at least part of the carbon-carbon double bonds of at least one selected from diolefins and olefins which are contained in the gasified C₅ raffinate after the desulfurization step in the gas-phase state, so as to obtain a hydrocarbon material with a total concentration of diolefins and olefins of 0.5 wt% or less is provided.

(No Suitable Figures)