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ABSTRACT

PROCESS FOR PRODUCING PURIFIED DICYCLOPENTADIENE AND  
5-ETHYLIDENE-2-NORBORNENE

A process for simultaneously producing a purified dicyclopentadiene and 5-ethylidene-2-norbornene from a crude dicyclopentadiene and 1,3-butadiene, which comprises the following steps of:

first step: a step of subjecting a crude dicyclopentadiene to decomposition reaction to convert it into cyclopentadiene;

second step: a step of subjecting the cyclopentadiene obtained in the first step and 1,3-butadiene to Diels-Alder reaction to convert them into 5-vinyl-2-norbornene;

third step: a step of separating and collecting the 5-vinyl-2-norbornene and dicyclopentadiene respectively from the reaction mixture in the second step;

fourth step: a step of purifying dicyclopentadiene obtained in third step to obtain a purified dicyclopentadiene; and

fifth step: a step of subjecting 5-vinyl-2-norbornene obtained in the third step to isomerization reaction to convert it into 5-ethylidene-2-norbornene.

(Figure 1)



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