

Title (en)

Process for isomerisation of C5-C8 paraffinic fractions rich in paraffins with more than seven carbon atoms

Title (de)

Verfahren zur Isomerisierung von C5-C8 paraffinischen Schnitten mit hohem Gehalt an Paraffinen mit mehr als sieben Kohlenstoffatomen

Title (fr)

Procédé d'isomérisation des coupes paraffiniques C5-C8 riches en paraffines à plus de sept atomes de carbone

Publication

EP 0922747 A1 19990616 (FR)

Application

EP 98402869 A 19981119

Priority

FR 9714892 A 19971125

Abstract (en)

[origin: FR2771417A1] Isomerization of C5-C8 paraffin fractions rich in paraffins with more than 7 C atoms is carried out by treating the feed in a reaction zone comprising of a supported catalyst containing at least a halogen and a metal of group VIII, in fix bed, the reaction being carried out between 30-150 deg.C. The totality of the effluent of the first hydroisomerization section passes through the second section. The separation section is based after the hydroisomerization sections, the feed is mixed with the recycled linear paraffins from the separation section and the resulting mix is sent to the first hydroisomerization section. The effluent from the first hydroisomerization section is mixed with the flux rich in mono-branched paraffins from the separation section which is then sent to the second hydroisomerization section and the effluent from that section is then sent to the separation section. The separation section is also located before the hydroisomerization sections, the feed is mixed with the flux resulting from the second hydroisomerization section and the resulting mixture is sent to separation section. The effluent rich in linear paraffins section is sent to the first hydroisomerization section and the flux rich in mono-branched paraffins from the separation section is added to the effluent from the first hydroisomerization section and the resulting mixture is sent to the second hydroisomerization section.

Abstract (fr)

Procédé d'isomérisation en présence d'hydrogène d'une charge comprenant en majeure partie des paraffines normales contenant de 5 à 8 atomes de carbone par molécule, caractérisé en ce que la somme des teneurs en paraffines normales à 7 et à 8 atomes de carbone par molécule contenues dans la charge est comprise entre 2 et 90 % poids par rapport à la charge, et en ce que ladite charge est traitée dans au moins une zone réactionnelle, contenant au moins un catalyseur en lit fixe, ledit catalyseur comprenant un support, au moins un halogène et au moins un métal du groupe VIII, la réaction étant effectuée à une température comprise entre 30 et 150 °C.

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IPC 8 full level

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CPC (source: EP KR US)

C10G 11/08 (2013.01 - KR); **C10G 11/10** (2013.01 - KR); **C10G 45/62** (2013.01 - EP US); **C10G 2300/1037** (2013.01 - KR)

Citation (search report)

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- [A] BE 594884 A
- [A] EP 0749780 A2 19961227 - PHILLIPS PETROLEUM CO [US]
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