

Title (en)

Method for treating the middle fraction of a steam cracking effluent

Title (de)

Verfahren zur Aufbereitung einer Zwischenfraktion von Dampfspaltungsströmen

Title (fr)

Procédé de traitement d'une fraction intermédiaire issue d'effluents de vapocraquage

Publication

EP 1508609 B1 20081022 (FR)

Application

EP 04291954 A 20040729

Priority

FR 0310028 A 20030819

Abstract (en)

[origin: EP1508609A1] The process involves the separation of effluents from a catalytic cracking unit to obtain an intermediate fraction comprising a 5 - 9C fraction with a final boiling point less than 310[deg]C, which is subjected to hydrotreatments. The process comprises the stages (1) separation of the effluents to produce an intermediate fraction consisting mainly of a pyrolytic petrol with mostly 5C+ compounds and with a final boiling point less than 310[deg]C; (2) a primary hydrotreatment of the intermediate fraction; (3) fractionation of the effluent from the primary unit to produce a C5 cut and a C6+ cut; (4) fractionation of the C6+ cut to produce a 6 - 8C and C9+ cut; (5) a second hydrotreatment of the 6 - 8C cut to produce a hydrotreated 6 - 8C cut; (6) a third hydrotreatment of the C9+ cut, and optionally part of the 6 - 8C or hydrotreated 6 - 8C cut, to saturate at least 20% vol of the aromatics, using the excess hydrogen produced in the cracking unit. The final product obtained from the third hydrotreatment consists of solvents comprising less than 5% aromatics, kerosene, gasoil or domestic fuel cuts, or bases for the preparation of these products. An independent claim is also included for the final product obtained from the process.

IPC 8 full level

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