

Title (en)

METHOD FOR DESULPHURISING HYDROCARBONS CONTAINING THIOPHENE DERIVATIVES

Title (de)

VERFAHREN ZUR ENTSCHEFELUNG VON THIOPHENDERIVATE ENTHALTENDEN KOHLENWASSERSTOFFEN

Title (fr)

PROCEDE DE DESULFURATION D'HYDROCARBURES CHARGES EN DERIVES THIOPHENIQUES

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Application

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Abstract (en)

[origin: WO02053683A1] The invention relates to a selective desulphurisation method for thiophene derivatives contained in the hydrocarbons emitted from the distillation of crude oil, refined or not, consisting in oxidising the atoms of thiophene sulphur in sulphone in the presence of an oxidising agent and separating the sulphonated compounds from said hydrocarbons. This inventive method comprises at least one first stage involving the oxidation/absorption by heterogeneous catalysis of the sulphurous compounds in an organic environment, at a temperature of at least 40°C, at atmospheric pressure in the presence of an organic oxidiser from the family of peroxides and peracids, in the presence of a catalyst having a specific surface area greater than 100m²/g and a porosity varying from 0.2 to 4ml/g, and a second stage wherein the used catalyst is regenerated.

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