

A method and nickel-containing catalyst are disclosed for preparing synthesis gas by the reforming of a hydrocarbyl compound using an oxygen-containing compound.

5591323

**PROCESS FOR SWEETENING
PETROLEUM CUTS WITHOUT
REGULAR ADDITION OF ALKALINE
SOLUTION USING A BASIC SOLID
CATALYST**

Marcilly Christian; Leporq Serge; Courty Philippe Houilles, FRANCE assigned to Institut Francais du Petrole

A process for sweetening a petroleum cut containing mercaptans, wherein said petroleum cut is subjected to oxidation conditions by being contacted with a porous catalyst, in the presence of air said process being characterised in that said catalyst comprises 10 to 98% by weight of at least one mineral solid phase constituted of an alkaline aluminosilicate with a Si/Al atomic ratio less than or equal to 5, 1 to 60% by weight of active carbon, 0.02 to 2% by weight of at least one metal chelate and 0 to 20% by weight of at least one organic or mineral binding agent, has a basicity determined according to the 2896 ASTM standard with 20 milligrams of potash per gram and a total BET surface area of 10 m²g⁻¹, and contains inside its pore structure a permanent aqueous phase representing 0.1 to 40% by weight of dry catalyst.

5591326

**CATALYTIC PROCESS FOR CRUDE
OIL DESALTING**

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A catalytic desalting process for processing whole crude oils. The desalting process uses an M41S catalyst to remove salts from the whole crude. Solids may also be removed from the whole crude using a porous material having a pore size greater than about 10 microns. The catalytic desalting process does not generate waste water.

5591689

**PREPARATION OF ISOMERIZATION
CATALYST COMPOSITION**

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A Group VIII metal and chloride-containing composition (effective as an alkane/cycloalkane isomerization catalyst) is prepared by a method which comprises mixing aluminum trichloride with a solid material containing at least one Group VIII metal (Pt and/or Pd and/or Ni) and alumina, heating the obtained mixture in an inert gas at about 450°-750°C., and then treating the mixture with a hydrogen chloride-containing gas at about 300°-700°C.

5597944

**DEHYDROGENATION OF
N-PARAFFIN TO N-OLEFIN
EMPLOYING MANGANESE OXIDE
OCTAHEDRAL MOLECULAR SIEVE
AS CATALYST**

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The dehydrogenation of n-parrofin to n-olefins is catalyzed by novel synthetic manganese oxide