[0006] It is therefore desirable to investigate the balance between cost and benefit, by reviewing the specific requirements and the related costs, in order to identify the extent of upgrading, which is required to meet the actual requirements.

Summary

[0007] A novel fuel is described together with a method of production for this fuel. The novel fuel has a non-corrosive content of acids but comprises an amount of oxygen which simplifies production and reduces the hydrogen consumption and other costs of production.

[0007a] In a first aspect of the present disclosure, there is provided a composition comprising, on water free basis, at least 80 wt% molecules comprising from 8 to 35 C-atoms, said composition having a flash point above 60°C and comprising, on water free basis, 9.5-12 wt% H, 3-45 wt% O and less than 5 wt ppm halogens.

[0007b] In another aspect of the present disclosure, there is provided a process for production of a composition as disclosed herein involving the step of directing a renewable liquid hydrocarbonaceous feedstock comprising at least 5 wt% oxygen in oxygenates to contact a hydrotreatment catalyst under conditions affecting from 10% to 90% conversion of oxygen in oxygenates to water, carbon dioxide and/or carbon monoxide.

Definitions

[0008] In the following a hydrocarbonaceous feedstock shall be used to signify a feedstock rich in molecules comprising hydrogen and carbon, but possibly also heteroatoms, i.e. other elements, such as oxygen, sulfur and nitrogen.

[0009] A material catalytically active in a chemical reaction such as hydrodeoxygenation or hydrocracking shall be understood as a material having significant catalytic activity and preference for said chemical reaction under the conditions used. As it will be realised by the skilled person, most reactions will show an amount of side reactions, but unless otherwise specified the term a material catalytically active in a chemical reaction shall be understood as a combination of a material and conditions under which a commercially relevant amount of conversion takes place with higher selectivity than any other chemical reaction.

[0010] For the purpose of the present application, the unit wt% shall designate weight/weight % and the unit vol% shall designate volume/volume %. Similarly ppm_{wt} refers to parts per million on weight basis.

[0011] The term aromatic molecule shall for the purpose of the present application be used to signify homocyclics, comprising only carbon atoms in the aromatic ring, as well as heterocyclics, comprising other atoms than carbon, such as oxygen and nitrogen. The term shall also cover both monocyclics and polycyclics, including fused aromatics.