Claims

1. A composition suitable for a hydrotreater or a catalytic cracker for production of petrol, diesel, and gases comprising a carrier liquid comprising a first fatty acid and hydrocarbon oil and lignin or lignin derivatives, wherein at least one of the hydroxyl groups of the lignin or lignin derivatives have been substituted with ester groups from a second fatty acid forming esterified lignin or lignin derivatives, and wherein the esterified lignin or lignin derivatives is solubilized in said carrier liquid.

2. The composition according to claim 1 wherein the concentration of the lignin or lignin derivatives in the composition is 2 weight% or more, or 10 wt% or more, or 20 wt% or more, or 30 wt% or more, or 40 wt% or more.

3. The composition according to any one of claim 1 or 2 wherein the hydroxyl groups of the lignin has been substituted to a degree of substitution of 20% or more, or 30% or more, or 40% or more, or 60% or more or 80% or more, or 99% or more, or 100% .

4. The composition according to any one of the preceding claims wherein the lignin or lignin derivative has a weight average molecular weight of not more than 2,000g/mol.

5. The composition according to claim 1 wherein the composition comprises 10 wt% or more, or 20 weight% or more, or 40 weight% or more, or 60 weight% or more, or 80 weight% or more of the carrier liquid.

6 . The composition according to any one of the preceding claims wherein the carrier liquid comprises an oil and wherein composition comprises at least 40 wt% of an oil and wherein the concentration of the lignin or lignin derivatives in the composition is at least 2 wt%.

7 . A method for making fuel by treating the composition according to any one of claims 1 to 6 in a hydrotreater or a catalytic cracker.

8 . A fuel obtained from the composition according to any one of claims 1 to 6.

9 . A lubricant obtained from the composition according to any one of claims 1 to 6.

10. A method of preparing the composition according to any one of claims 1 to 6 wherein the method comprises the steps

a. Providing a carrier liquid comprising a first fatty acid and an oil, and lignin or lignin derivatives;
b. Providing a second fatty acid and an esterification agent, and optionally a catalyst;
c. Mixing the components of step a and b to form a slurry;
d. Heating the mixture; and
e. Letting the components react in order to form a homogenous composition of esterified lignin or lignin derivatives solubilized in a first fatty acid or oil.

11. The method according to claim 10 wherein esterification agent is an anhydride.

12. The method according to any one of claims 10 or 11 wherein an imidazole or an acid is added as a catalyst.

13. The method according to any one of claims 10 to 12 wherein the mixture is heated to at least 80°C, or preferably at least 120°C.