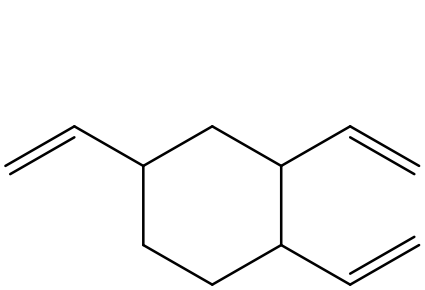
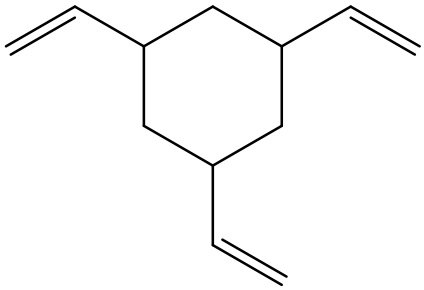
Claims

1. Process comprising the process steps of:

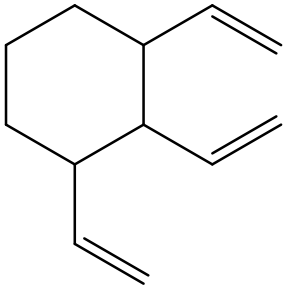
a) initially charging one of the compounds (**i**), (**ii**), (**iii**) or a mixture of at least two of these compounds:



(**i**)



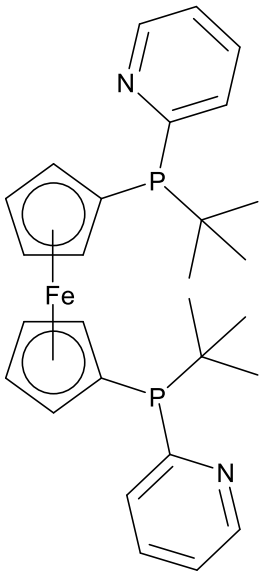
(**ii**)



(**iii**)

b) adding the ligand (**L**) and a compound comprising Pd,

or adding a complex comprising Pd and the ligand (**L**):



(**L**)

c) adding an alcohol having 1 to 12 carbon atoms;

d) feeding in CO;

e) heating the reaction mixture of a) to d), wherein the compound/the mixture of a) is converted to a triester.

2. The process according to Claim 1,

wherein the compound (**i**) is initially charged in process step a).

3. The process according to Claim 1,
wherein the compound (**ii**) is initially charged in process step a).

4. The process according to any of Claims 1 to 3,
wherein the alcohol in process step c), besides the oxygen, does not comprise any further heteroatoms and contains no multiple bonds.

5. The process according to any of Claims 1 to 4,
wherein the alcohol in process step c) is selected from:
methanol, ethanol, ^{n}butanol, methylpropanol, ^{n}pentanol, ^{iso}pentanol, 2-methylbutanol, 3-methylbutanol, ^{n}hexanol, ^{iso}hexanol, ^{n}heptanol, ^{iso}heptanol, ^{n}octanol, ^{iso}octanol, 2-ethylhexanol, ^{n}nonanol, ^{iso}nonanol, ^{n}decanol, ^{iso}decanol, 2-propylheptanol.

6. The process according to any of Claims 1 to 5,
wherein the alcohol in process step c) is methanol.

7. The process according to any of Claims 1 to 6,
wherein CO is fed in in process step d) up to a pressure in the range from 20 bar to 60 bar.

8. The process according to any of Claims 1 to 7,
wherein the heating in process step e) is carried out at a temperature in the range from 90°C to 130°C.

9. The process according to any of Claims 1 to 8,
comprising the additional process step f):
f) purifying the triester.

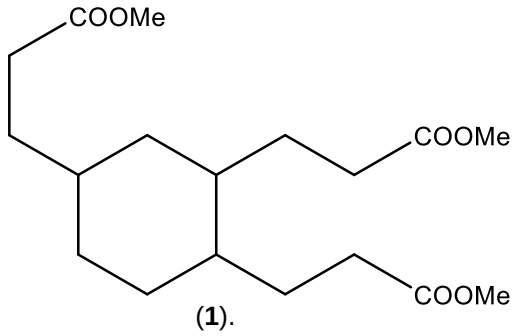
10. The process according to Claim 9,
comprising the additional process step g):
g) reacting the purified triester with NaOMe and H_2 to give the triol.

11. The process according to Claim 10,
wherein the reaction in process step g) is catalyzed with Ru-MACHO-BH.

12. The process according to either of Claims 10 and 11,
wherein the reaction in process step g) is carried out at a H_2 pressure in the range of 30 bar to 70 bar.

13. The process according to any of Claims 10 to 12,
wherein the reaction in process step g) is carried out at a temperature in the range from 80°C to 120°C.

14. The process according to any of Claims 1 to 13, wherein the triester comprises a compound according to formula (**1**):



(**1**).