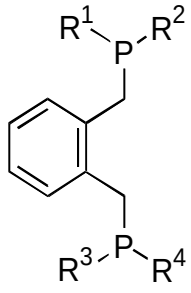
**Abstract**

Process for alkoxycarbonylation of olefins using synthesis gas

There is provided a process comprising the process steps of:

a) initially charging an olefin;

b) adding a ligand of formula (**I**):



(**I**)

where

$R^1$ and $R^3$ are each a -($C_3$-$C_{20}$)-heteroaryl radical,

$R^2$ and $R^4$ are each -($C_1$-$C_{12}$)-alkyl;

c) adding a compound comprising Pd;

d) adding an alcohol;

e) feeding in CO and $H_2$, where the pressure with which $H_2$ is fed in is at least 0.6 MPa (6 bar);

f) heating the reaction mixture from steps a) to e), to convert the olefin to an ester.

[No figure]