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Diphosphine

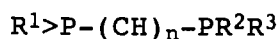


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Abstract

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A system comprising a diphosphine of the formula



10 where

R^1 is a divalent radical which together with the phosphorus atom to which it is linked forms an unsubstituted or substituted 2-phosphatricyclo[3.3.1.1^{3,7}]decyl group or a derivative thereof in which one or more of the carbon atoms are replaced by heteroatoms,

R^2 , R^3 are each, independently of one another, a monovalent radical having from 1 to 20 atoms or together form a divalent radical having from 2 to 20 atoms,

n is 4 or 5,

and a mixture of such diphosphines,

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and palladium or a palladium compound is suitable as carbonylation catalyst for the carbonylation of a conjugated diene.

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