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Rhodium Catalyzed Hydroformylation Editors. Piet W.N.M. van Leeuwen; Carmen Claver; Series Title Catalysis by Metal Complexes Series Volume 22 Copyright 2002 Publisher Springer Netherlands Copyright Holder Springer Science+Business Media B.V. eBook ISBN 978-0-306-46947-3 DOI 10.1007/0-306-46947-2 Hardcover ISBN 978-0-7923-6551-8 Softcover ISBN 978-1-4020-0421-6 Series ISSN

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The influence of electronic ligand properties on the catalyst performance in the rhodium-catalyzed hydroformylation of alkenes has been investigated. Two bidentate phosphorus amidite and phosphinite ligands have been synthesized: 1,1'-biphenyl-2,2'-diyl-bis(dipyrrolylphosphoramidite) (3) and 1,1'-biphenyl-2,2'-diyloxy-bis(diphenylphosphinite) (4).

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Ligand effects in rhodium-catalyzed hydroformylation with bisphosphines: steric or electronic? Y. Jiao, M. S. Torne, J. Gracia, J. W. (. Niemantsverdriet and P. W. N. M. van Leeuwen, Catal.

~~Ligand effects in rhodium-catalyzed hydroformylation with ...~~

Rhodium-Catalyzed Enantioselective Cyclopropanation of Olefins with N-Sulfonyl 1,2,3-Triazoles. Journal of the American Chemical Society 2009, 131 (50) , 18034-18035. DOI: 10.1021/ja908075u. Jie Chen and Shengming Ma.

~~Rhodium Catalyzed Hydroformylation of Cyclopropenes ...~~

Modern Rhodium?Catalyzed Organic Reactions. Editor (s): Prof. P. Andrew Evans. First published: 10 January 2005. Print ISBN: 9783527306831 | Online ISBN: 9783527604692 | DOI: 10.1002/3527604693. Copyright © 2005 Wiley?VCH Verlag GmbH & Co. KGaA.

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~~Bulky Diphosphite Modified Rhodium Catalysts ...~~

Abstract. A rhodium?catalyzed one?pot hydroformylation of olefins with CO₂, hydrosilane, and H₂ has been developed that affords the aldehydes in good chemoselectivities at low catalyst loading. Mechanistic studies indicate that the transformation is likely to proceed through a tandem sequence of poly (methylhydrosiloxane) (PMHS) mediated CO₂ reduction to CO and a conventional rhodium?catalyzed hydroformylation with CO/H₂.

~~Rhodium?Complex?Catalyzed Hydroformylation of Olefins with ...~~

Author: P. Andrew Evans. Publisher: John Wiley & Sons. ISBN: Category: Science. Page: 496. View: 704

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Rhodium Catalyzed Hydroformylation. Piet W.N.M. van Leeuwen, Carmen Claver. Springer Science & Business Media, Mar 31, 2002 - Science - 286 pages. 0 Reviews. In the last decade there have been...

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Hydroformylation, also known as oxo synthesis or oxo process, is an industrial process for the production of aldehydes from alkenes. This chemical reaction entails the net addition of a formyl group and a hydrogen atom to a carbon-carbon double bond. This process has undergone continuous growth since its invention: Production capacity reached 6.6×10⁶ tons in 1995. It is important because aldehydes are easily converted into many secondary products. For example, the resulting aldehydes are ...

~~Hydroformylation — Wikipedia~~

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Abstract. A new in situ high-pressure IR (HP-IR) autoclave is presented that is especially suited for mechanistic studies of fast catalytic reactions. This review summarizes several applications of the HP-IR cell in the rhodium catalyzed hydroformylation of alkenes. The most abundant species during the very fast hydroformylation of 1-alkenes using tris (2-tert -butyl-4-methylphenyl) phosphite was identified as the Rh acyl complex $\text{RhC}(\text{O})\text{R}(\text{CO})_3\text{L}$.

~~In situ mechanistic studies in rhodium catalyzed ...~~

The authors further tested the utility of this reactor in gas-liquid homogeneously catalyzed reactions, by performing a two-step flow process combining Heck reactions with hydroformylation.

~~Recent Advances in Continuous Rhodium Catalyzed ...~~

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