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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.

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Sulfonyl 1,2,3-Triazoles. Journal of the  
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Chen and Shengming Ma.

~~Rhodium-Catalyzed Hydroformylation of  
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Modern Rhodium Catalyzed Organic  
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(X=O, CMe<sub>2</sub>, S). Journal of Molecular  
Catalysis A: Chemical 1999 , 144 (3) ,  
379-388.

## ~~Bulky Diphosphite—Modified Rhodium Catalysts ...~~

Abstract. A rhodium catalyzed one pot  
hydroformylation of olefins with CO<sub>2</sub> ,  
hydrosilane, and H<sub>2</sub> has been developed  
that affords the aldehydes in good  
chemoselectivities at low catalyst loading.

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Mechanistic studies indicate that the transformation is likely to proceed through a tandem sequence of poly(methylhydrosiloxane) (PMHS) mediated CO<sub>2</sub> reduction to CO and a conventional rhodium catalyzed hydroformylation with CO/H<sub>2</sub>.

## ~~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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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

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(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.

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