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# **Rhodium Catalyzed Hydroformylation**

## **Author P W N M Van Leeuwen Published On March 2002**

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~~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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Hydroformylation of styrene and 1-octene catalyzed by binuclear and oligomer rhodium(I) complexes containing the bis-phosphinito ligands [(p-Ph<sub>2</sub>POC<sub>6</sub>H<sub>4</sub>)<sub>2</sub>X] (X=O, CMe<sub>2</sub>, S). Journal of Molecular Catalysis A: Chemical 1999 , 144 (3) , 379-388.

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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. Mechanistic studies indicate that the transformation is likely to proceed through a tandem sequence of poly(methylhydrosiloxane)

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(PMHS) mediated CO<sub>2</sub> reduction to CO and a conventional rhodium?catalyzed hydroformylation with CO/H<sub>2</sub>.

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Author: P. Andrew Evans. Publisher: John Wiley & Sons. ISBN:

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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 6.6×10<sup>6</sup> tons in 1995. It is important because aldehydes are easily converted into many secondary products. For example, the resulting aldehydes are ...

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