

RUTHENIUM CARBONYL CLUSTERS AS CATALYSTS IN THE WATER GAS SHIFT REACTIONS

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The catalytic activity of $\text{Ru}_3(\text{CO})_9 \text{L}_3$ ($\text{L} = \text{arylphosphine}$) in the WGS and in the reduction of nitro derivatives to amines is studied. The same complex is supported in polystyrene-divinylbenzene copolymer (PSDVB) and the catalytic activity of this heterogeneous material on the fore mentioned reactions is herein studied. In the same way, $\text{Ru}_3(\text{CO})_{12}$ is reacted with PSDVB, previously functionalized with 1,2-ethylenediamine, giving an active catalyst for these reactions. Copyright © 1995 Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim