

# Download Hydroformylation Mechanism

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 (CHO) and a hydrogen atom to a carbon-carbon double bond. Click the structures and reaction arrows in sequence to view the 3D models and animations respectively. The OXO process is the hydroformylation of alkenes that uses two migratory insertions to make higher value aldehydes. View the most recent ACS Editors' Choice articles from Organometallics. See all Organometallics ACS Editors' Choice articles. View one new peer-reviewed research article from any ACS journal, selected daily, and made open access based on recommendations by ACS journal scientific editors from around the world. If the hydrogenation catalyst is modified with a chiral diphosphine ligand, enantioselective hydrogenation of double bonds can be achieved with high selectivity.