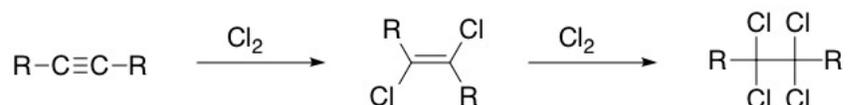


Addition reactions of Alkynes

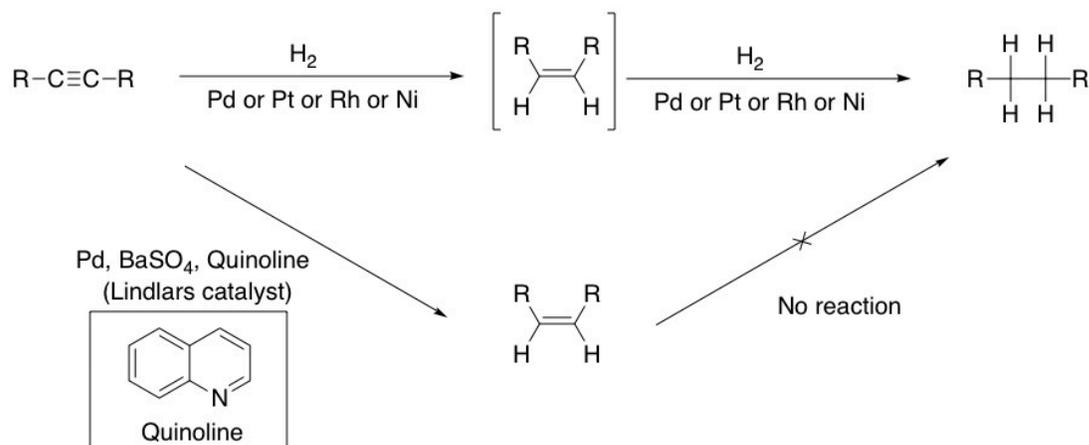
Alkynes are more polar as they have more negative charge between the two carbons. They are always more reactive than alkenes and so can be utilized in all addition reactions that alkenes can, except react faster.

The carbon-carbon triple bond is composed of two pi bonds and a sigma bond

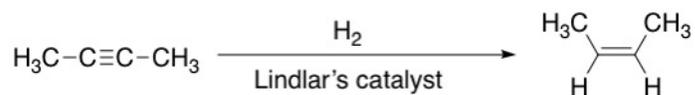
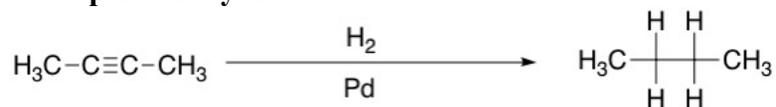


The first addition to the alkyne is anti, which forms the trans alkene.

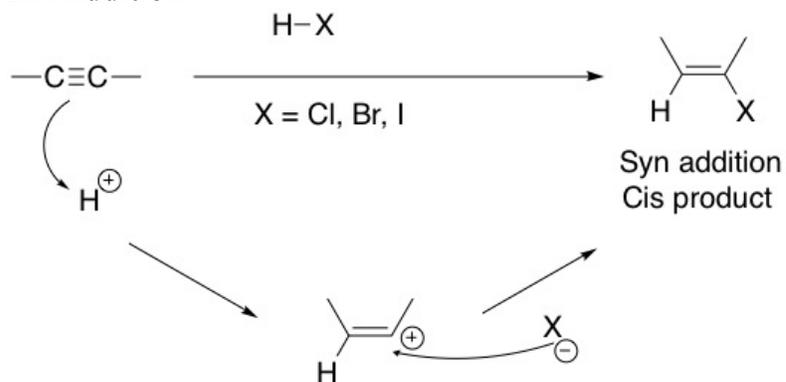
Hydrogenation of Alkynes



Example: 2-butyne



HX Addition



RECALL: Addition of HX across the double bond occurs in Markovnikov fashion

Example: 1-propyne

