CONCEPT: HYDROGENATION OF ALKYNES

There are three methods commonly used to saturate double and triple bonds. They differ in the degree of saturation they provide and in the stereochemistry of their reactions.

Catalytic Hydrogenation or Wilkinson's Catalyst: Full Saturation

Stereochemistry: Syn Addition

Dissolving Metal Reduction: Partial Saturation

Stereochemistry: Anti Addition

Lindlar's Catalyst: Partial Saturation

Stereochemistry: Syn Addition

PRACTICE: Predict the product of the following multi-step synthesis:

