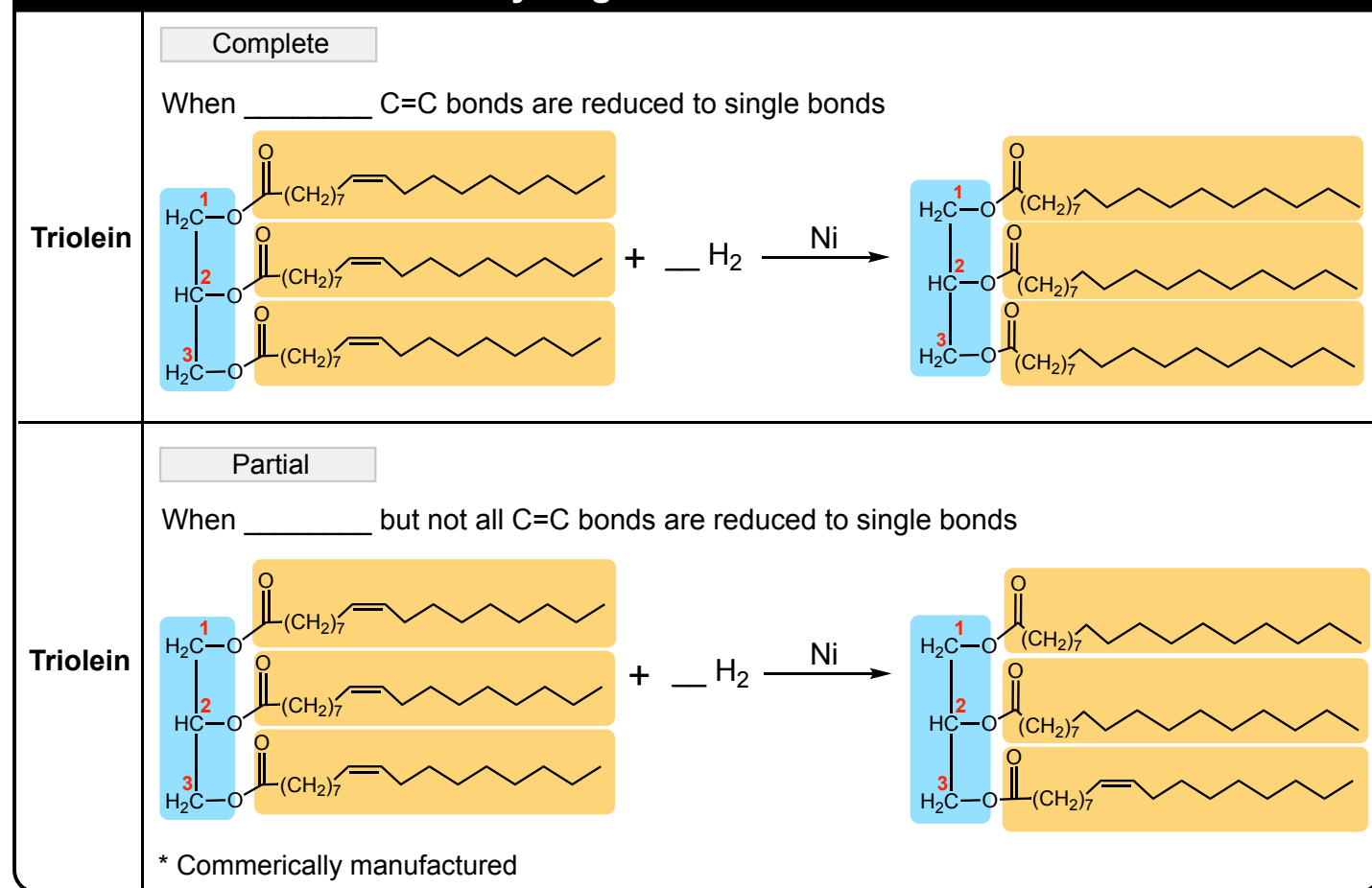


CONCEPT: TRIACYLGLYCEROL REACTIONS: HYDROGENATION

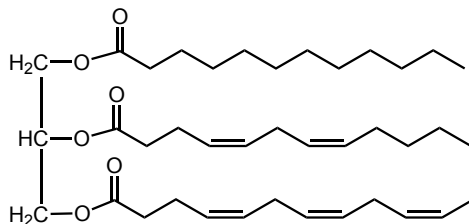
- **Recall:** Under this type of reaction ____ Hs are added to ____ π bond.
 - The conversion from double bonds to single bonds ____ unsaturation & ____ melting point.

Hydrogenation Reactions



- Partial hydrogenation converts oils to _____ ultimate consistency is based on the _____ of pi bonds.

EXAMPLE: Identify the number moles of hydrogen required for the complete hydrogenation of the following compound.



CONCEPT: TRIACYLGLYCEROL REACTIONS: HYDROGENATION

PRACTICE: Determine a possible triacylglycerol molecule formed when linoleic acid undergoes partial hydrogenation and consumes 1 mole of hydrogen gas.

a) Palmitoleic acid

b) Stearic acid

c) Linolenic acid

d) Oleic acid

PRACTICE: Assuming a complete reaction with hydrogen gas, which of the following molecules would have the greatest increase in melting point?

