Catalytic Hydrogenation of Alkenes

Adds two H atoms to the same face of an alkene (to yield an alkane).



Rancidity in Unsaturated Fats



In Practice, Partial Hydrogenation Can Yield trans-Fats







Reducing trans-Fats





trans-fat-containing food products

a hydrogenation plant



The problem:

Omega-3/6 fats are essential, and both saturated fats and *cis*-fats are used in the body, but *trans*-fats are not.

New York City restaurant poster

Chapter 8 Material Not Covered in Lecture:

Addition of Carbenes to Alkenes:

Wade, Chap. 8.11. Not important.

Polymerization of Alkenes:

Wade, Chap. 8.16. Covered in CHEM 2302.

But do read "Problem-Solving Strategy: Organic Synthesis," pp. 367-369.

Alkynes: Structure and Acidity



Alkynes: Structure and Acidity

