

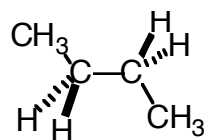


# Chem 341 • Organic Chemistry I

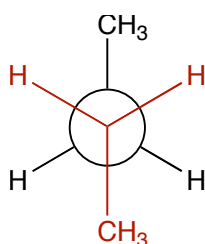
Solutions to additional problems • Chapter 04

## Additional Practice Problems

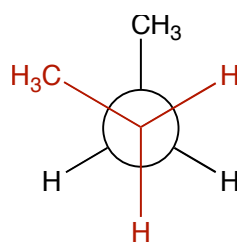
Looking down the C2-C3 bond of butane, one can draw Newman projections for the various rotational conformations. On the following configurations, the "back" carbon is filled in for you. Complete the "front" carbon on each structure. A sawhorse view of the most stable conformation is shown for reference.



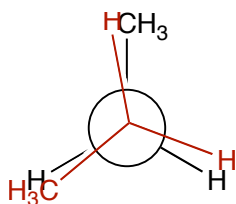
Sawhorse view



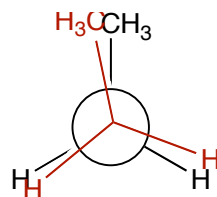
anti-staggered conformation



gauche-staggered conformation



lowest energy eclipsing conformation



highest energy eclipsing conformation

Circle the most stable molecule in each of the following pairs.

