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.

(a) ![Molecule A]
(b) ![Molecule B]
(c) ![Molecule C]
(d) ![Molecule D]