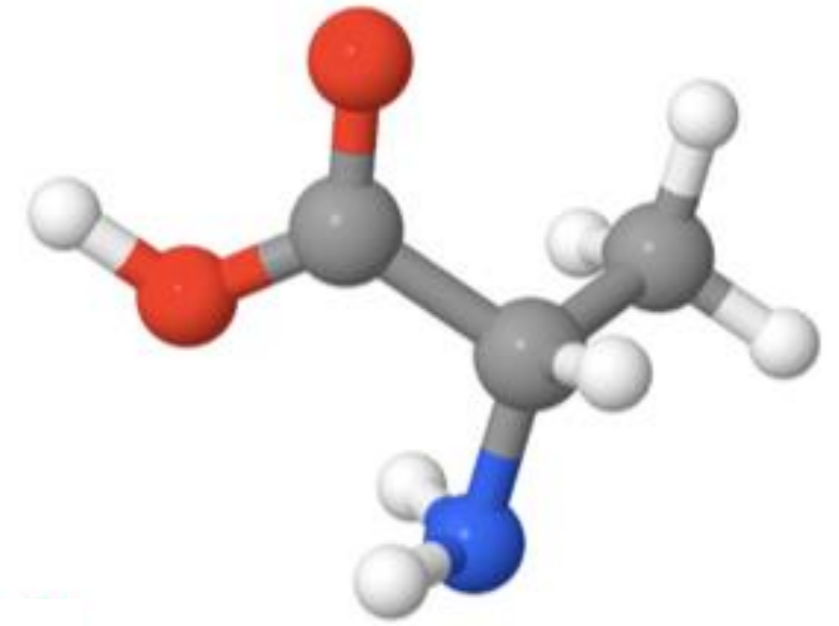


Build your own alanine

Instructions:

1. Use the styrofoam balls and tooth picks to assemble your own alanine molecule.

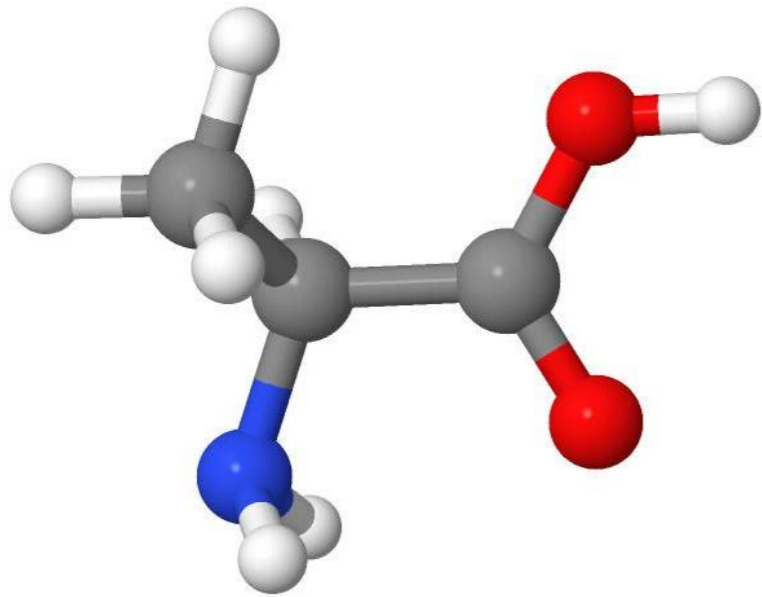


Tip 1: You can vary the length of the tooth pick pieces to create different bond length, if you want.

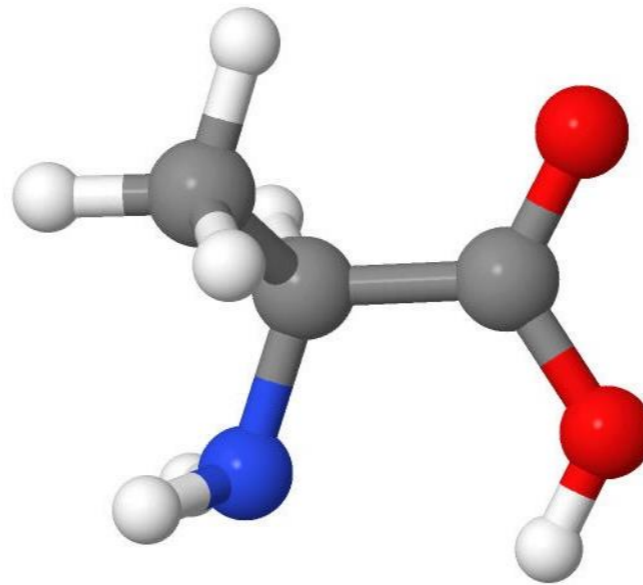
Tip 2: If you need to cut the tooth picks, you can use the “molecular-bond-cutter”.

2. Explore some of the conformers shown on the next page.

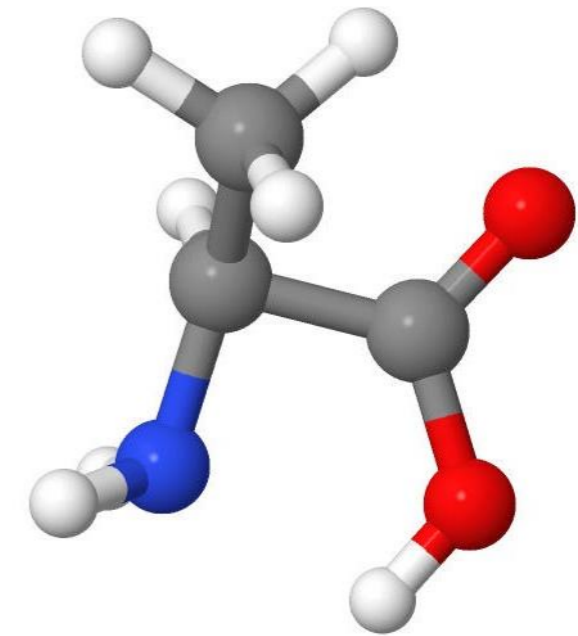
Different conformers of alanine



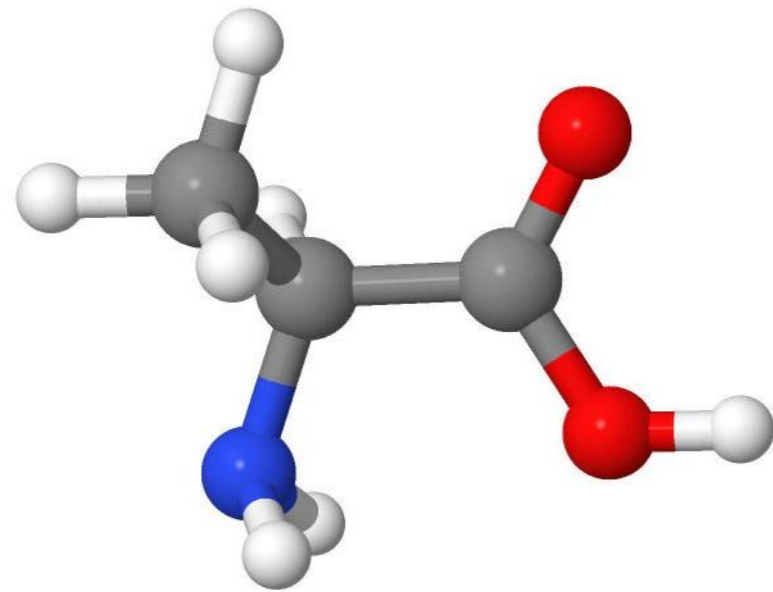
conformer 1



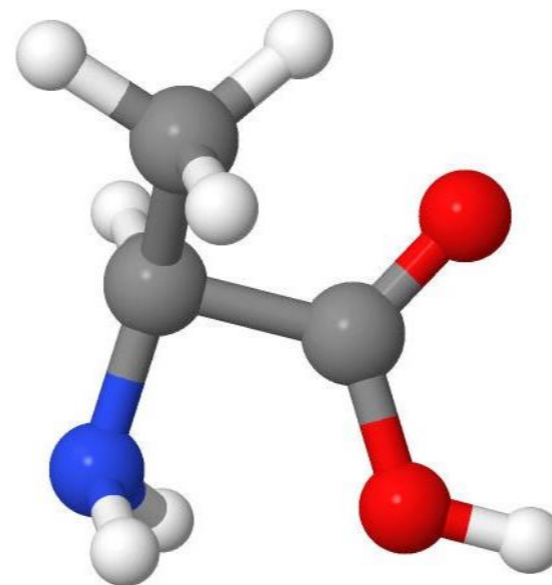
conformer 2



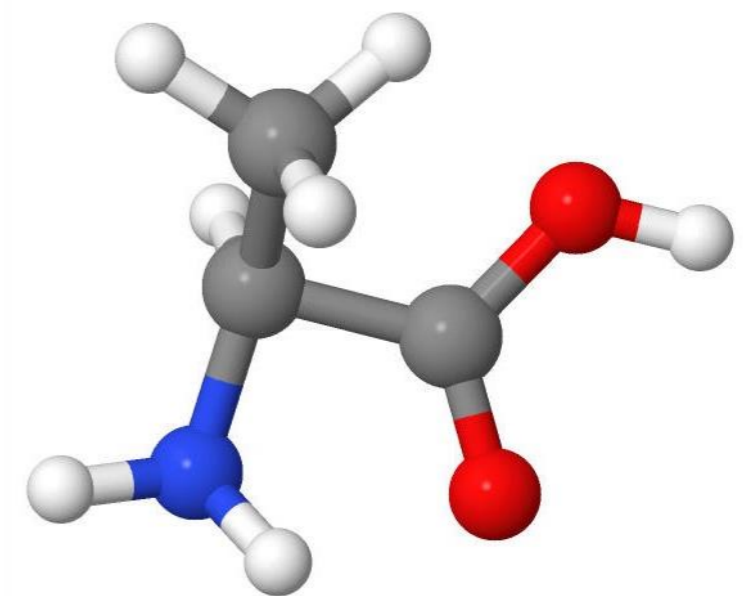
conformer 3



conformer 4

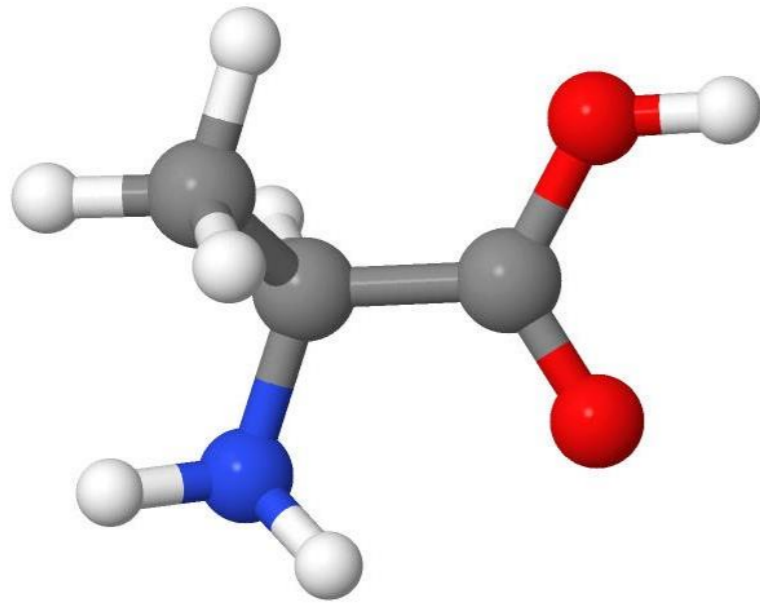


conformer 5

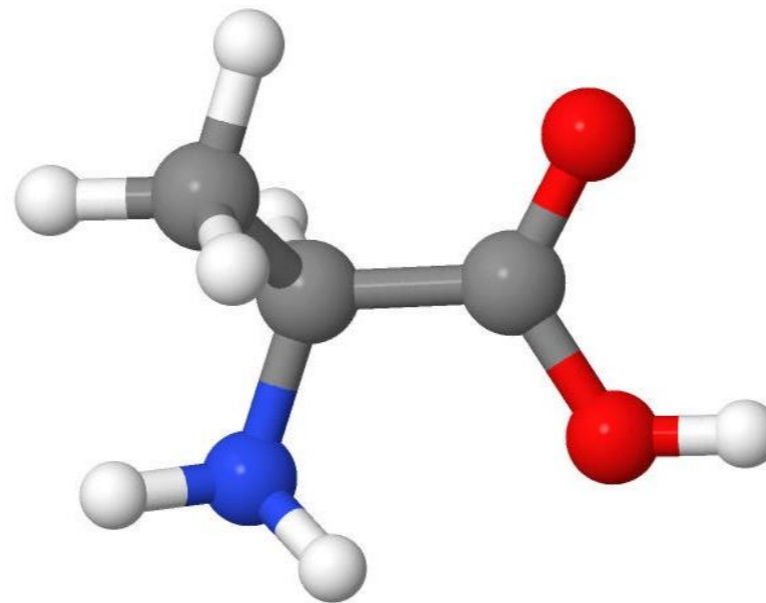


conformer 6

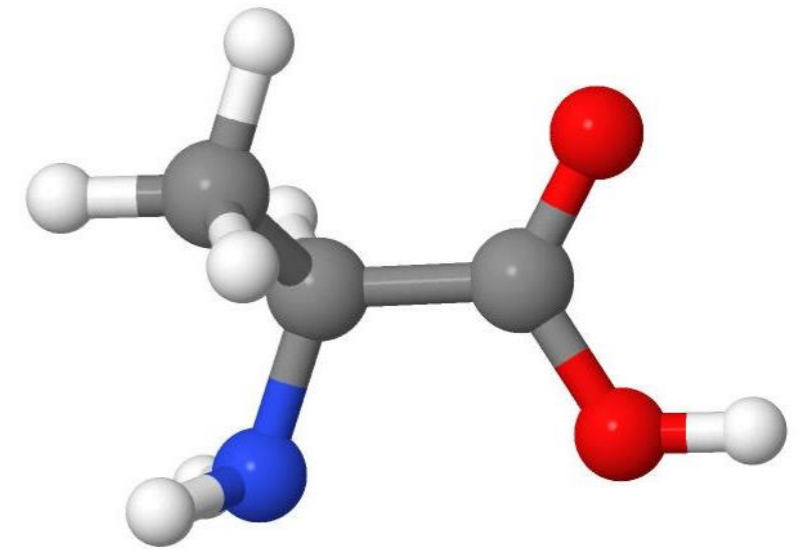
Different conformers of alanine



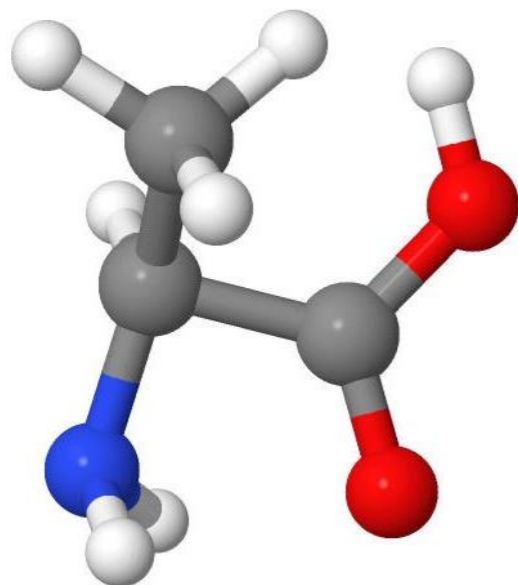
conformer 7



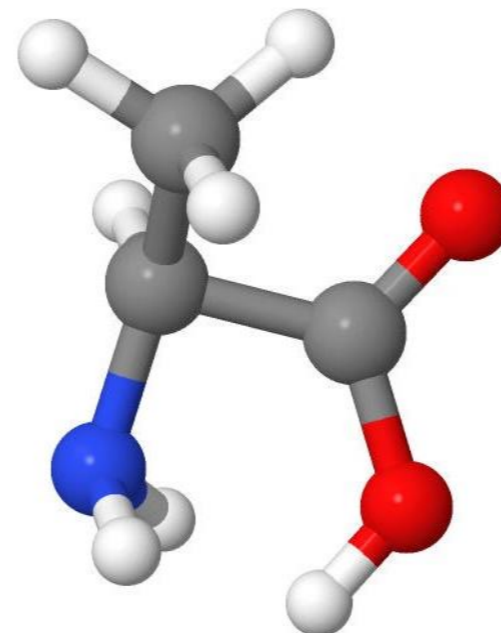
conformer 8



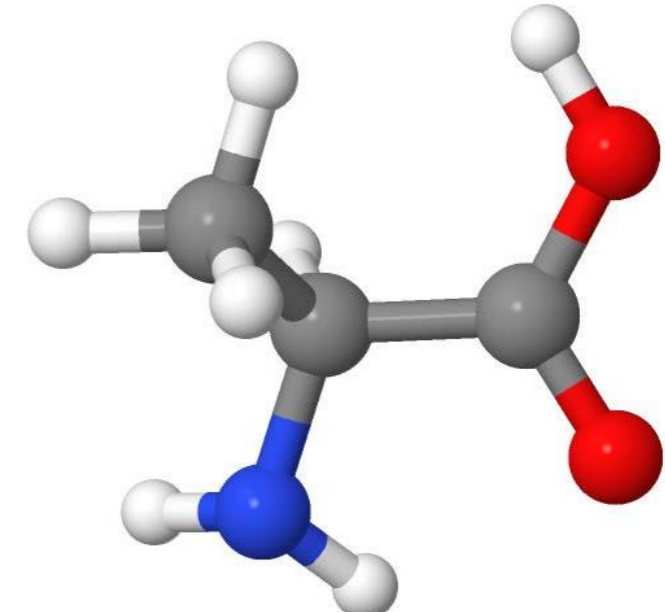
conformer 9



conformer 10



conformer 11



conformer 12