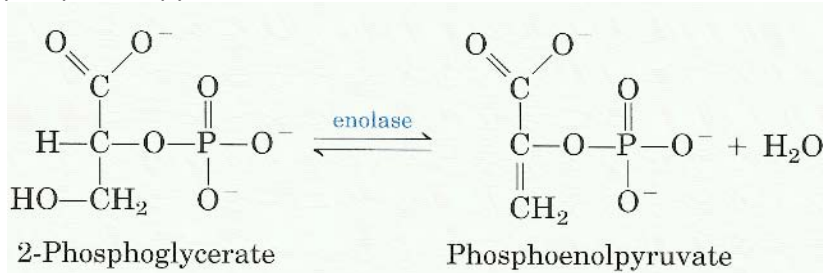


Kinetics & Reactor Design I: Kinetics

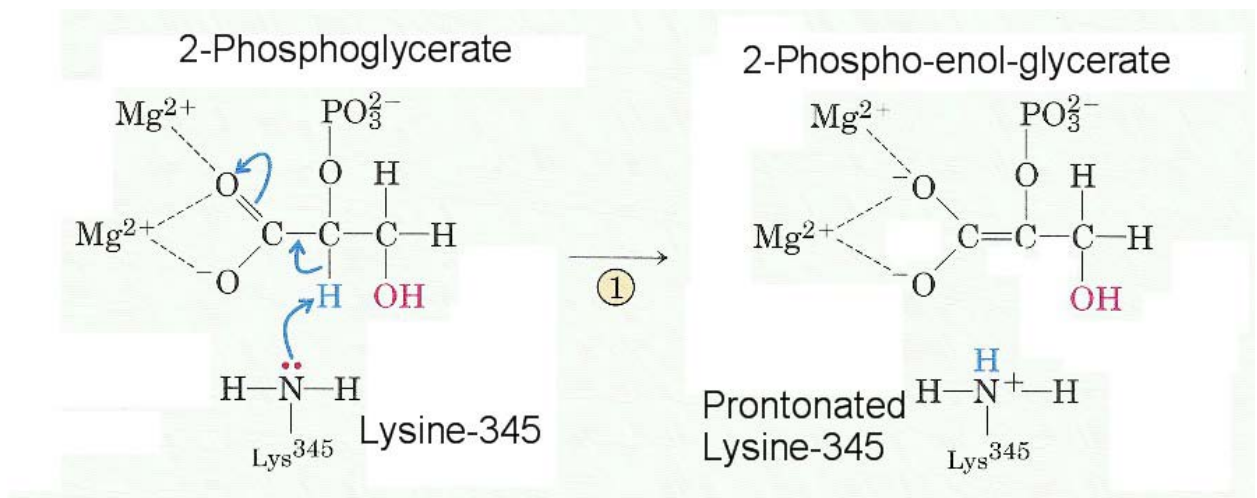
Continuing Ed workshop by Richard Skeirik, PE

Physical Modeling Exercise

The body takes several reaction steps to convert 2-phosphoglycerate to phosphoenolpyruvate.



In the first step, Lysine³⁴⁵ extracts a proton from the second carbon, forming 2-phospho-enol-glycerate and protonated Lysine³⁴⁵. The reaction happens like this:



Ignoring details that we don't know how to model, create a simplified physical model of the reaction. You can use A, B, C etc if you like.

Now, to make it easier for any subsequent mathematics, create a meaningful "symbol" of 1 to 4 letters/numbers for each of the components of your model. This way, when reading your reaction model, you and others can know which component each symbol refers to.