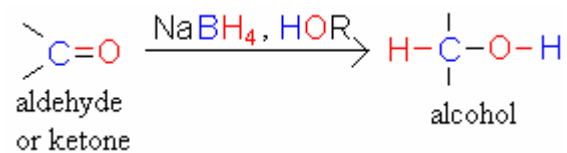
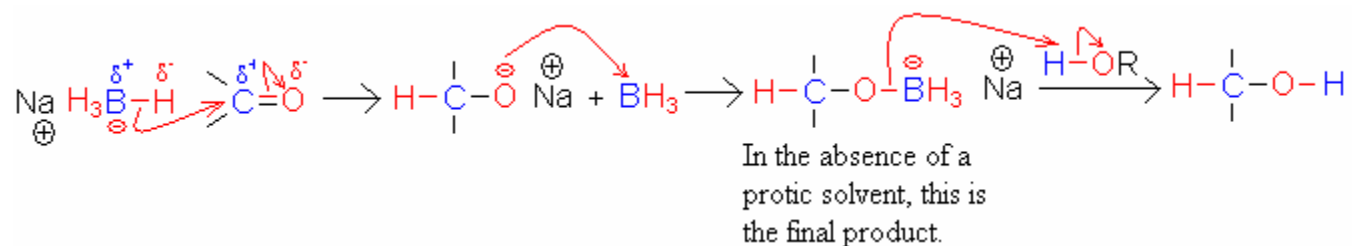


reactions involving H^- and R^-

reaction:



mechanism:



The mechanisms for LiAlH_4 , RLi , and RMgX are similar, except that the final protonation comes from H_3O^+ that must be added in a *separate* step.

stereochemistry: racemic mixture of products (because the H^- can attack either face of the trigonal planar carbonyl group)