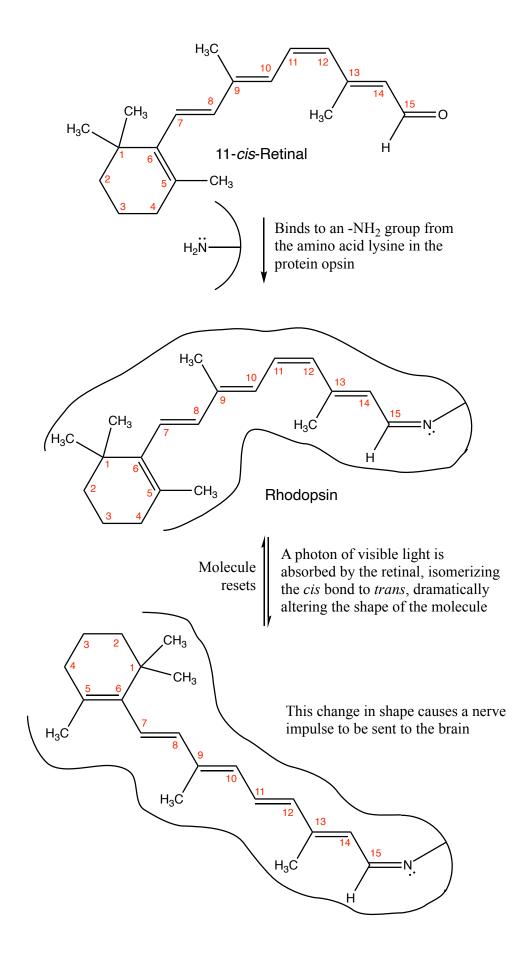
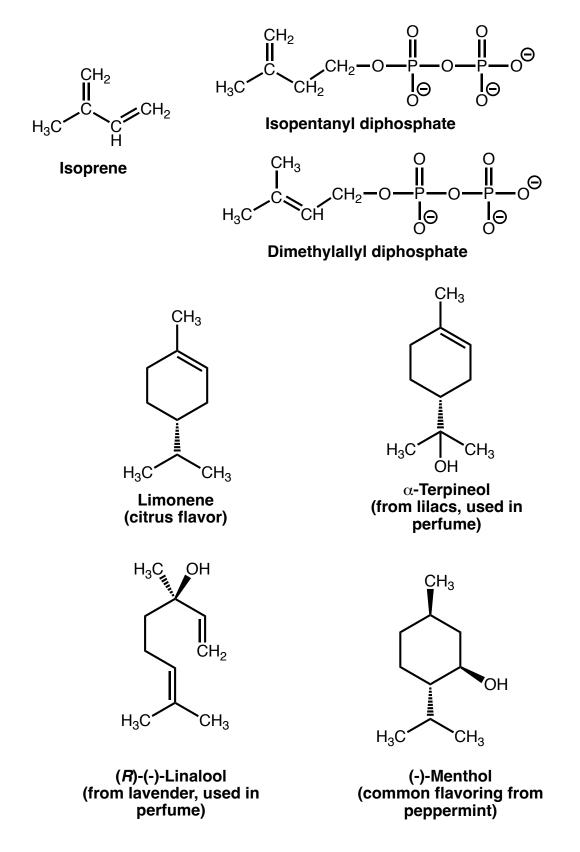
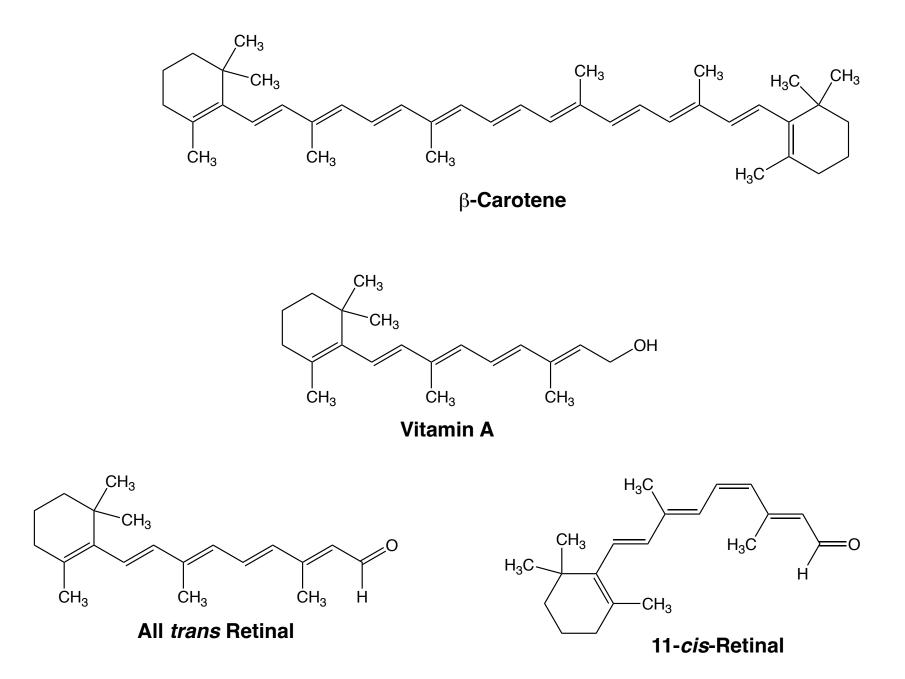


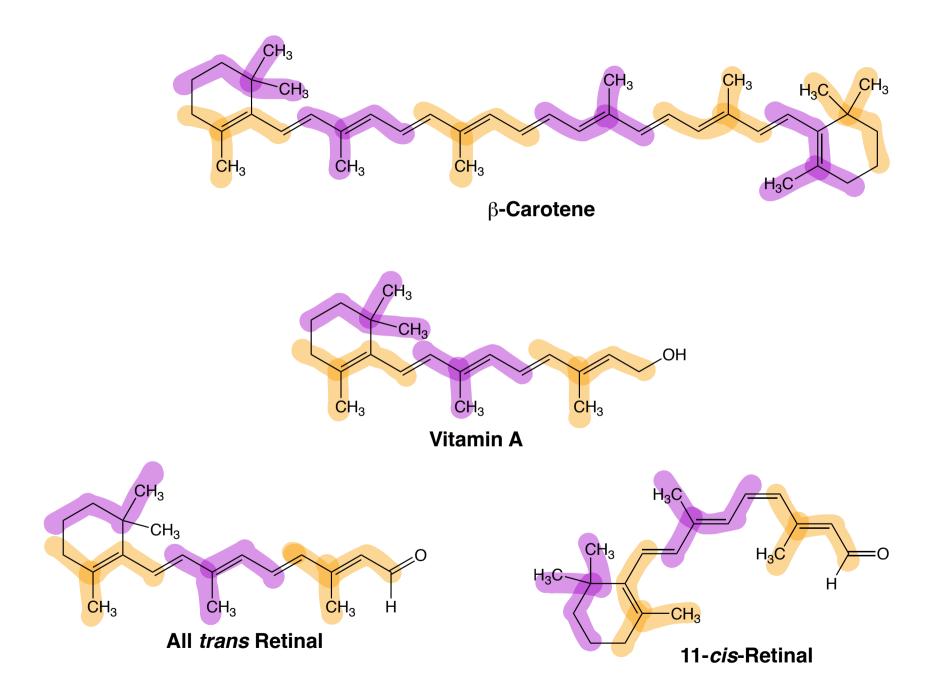
How vision works

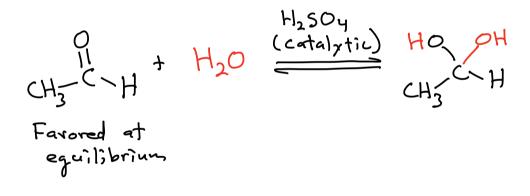


Terpenes

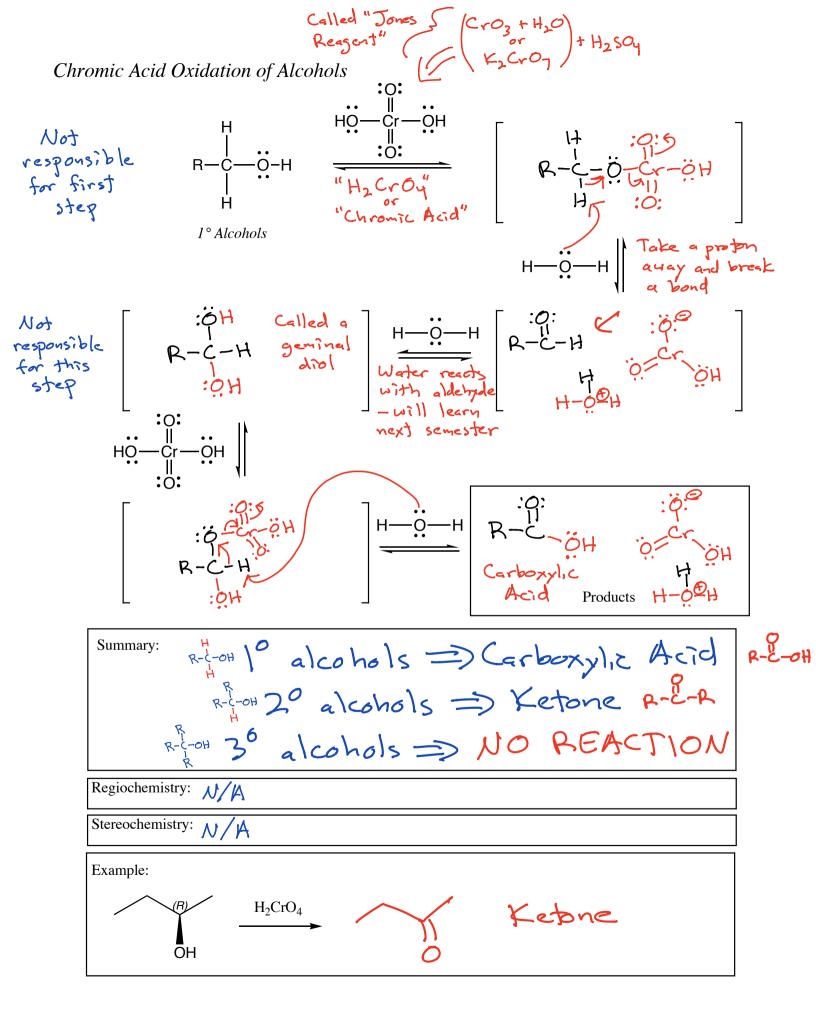


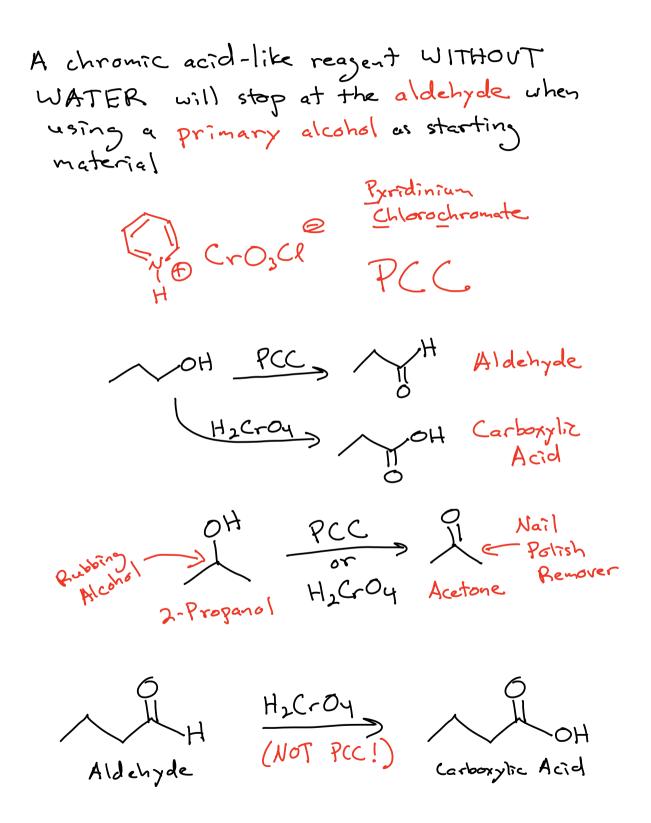


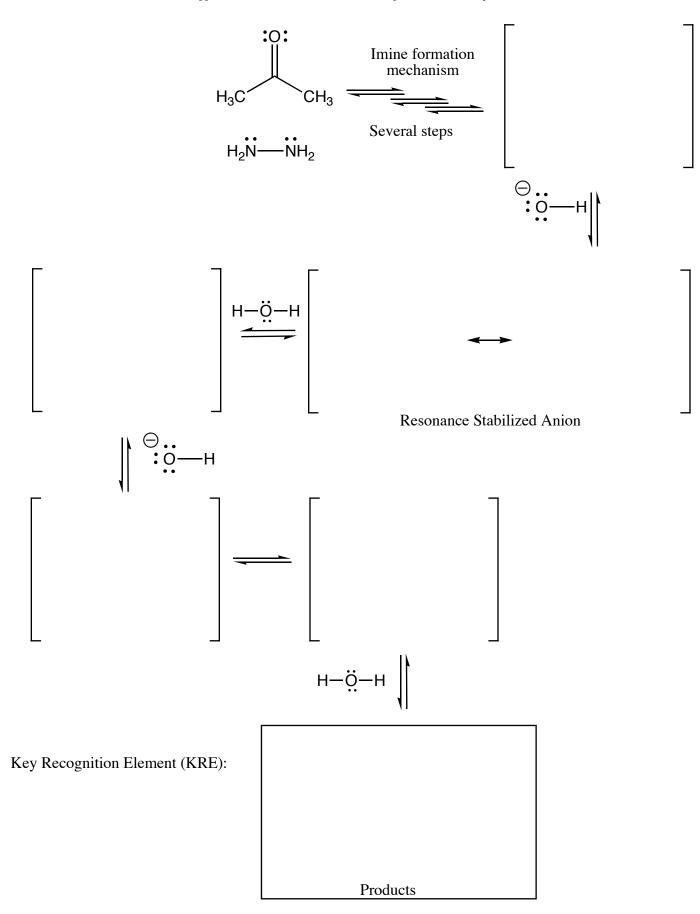




The geninal did is in equibrium with adehydes and ketones, but it is only favored for the case of formaldehyde/formalin

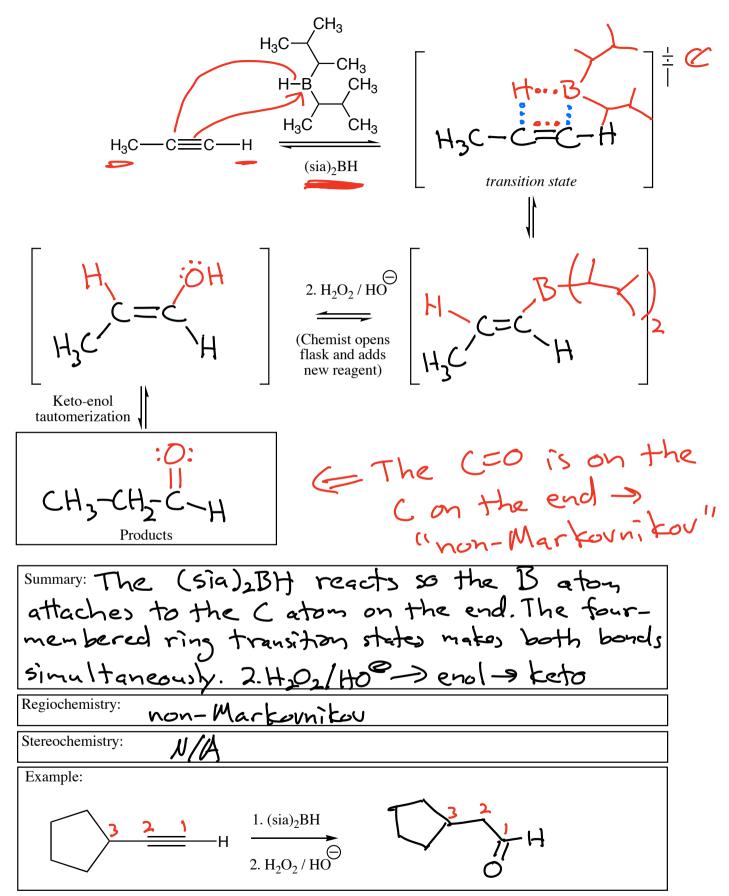


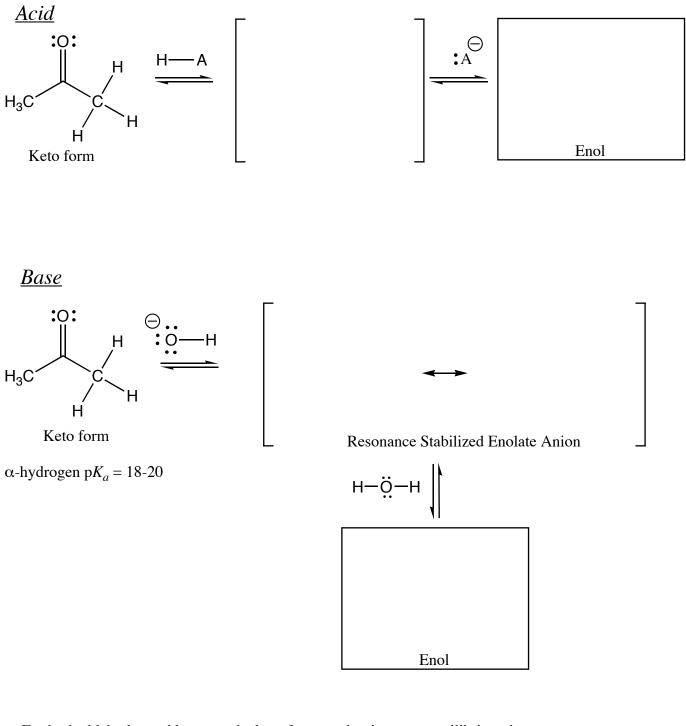






Terminal Alkyne Hydroboration



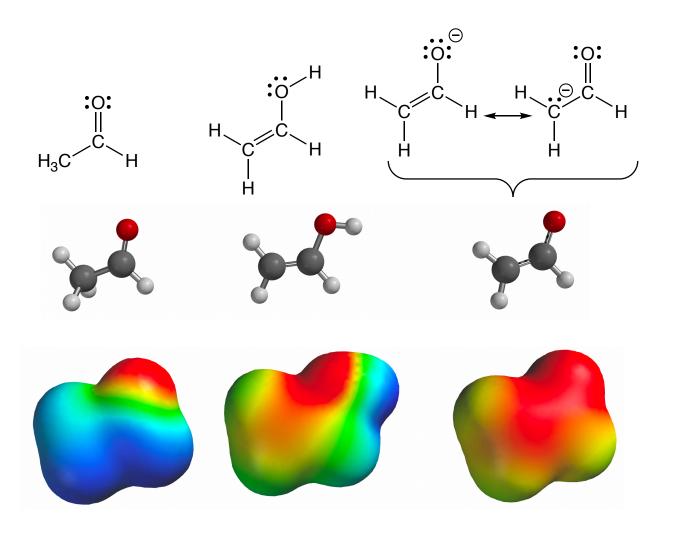


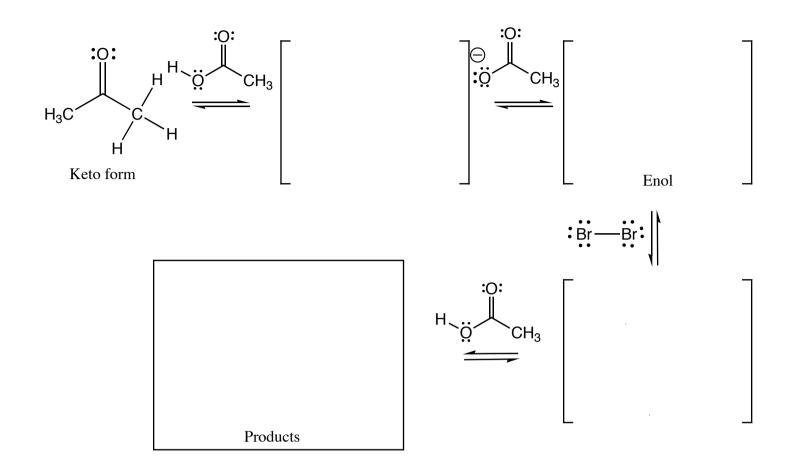
For both aldehydes and ketones, the keto form predominates at equilibrium, because

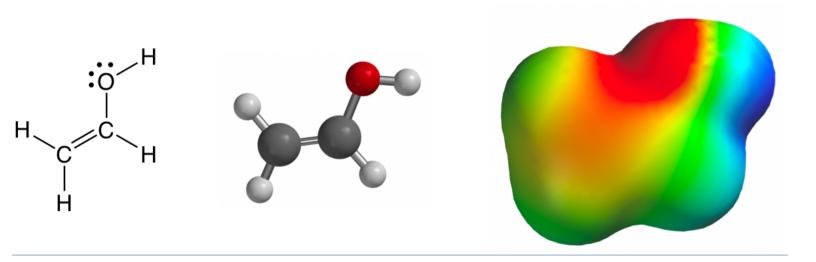
bonds are stronger than _____ bonds.

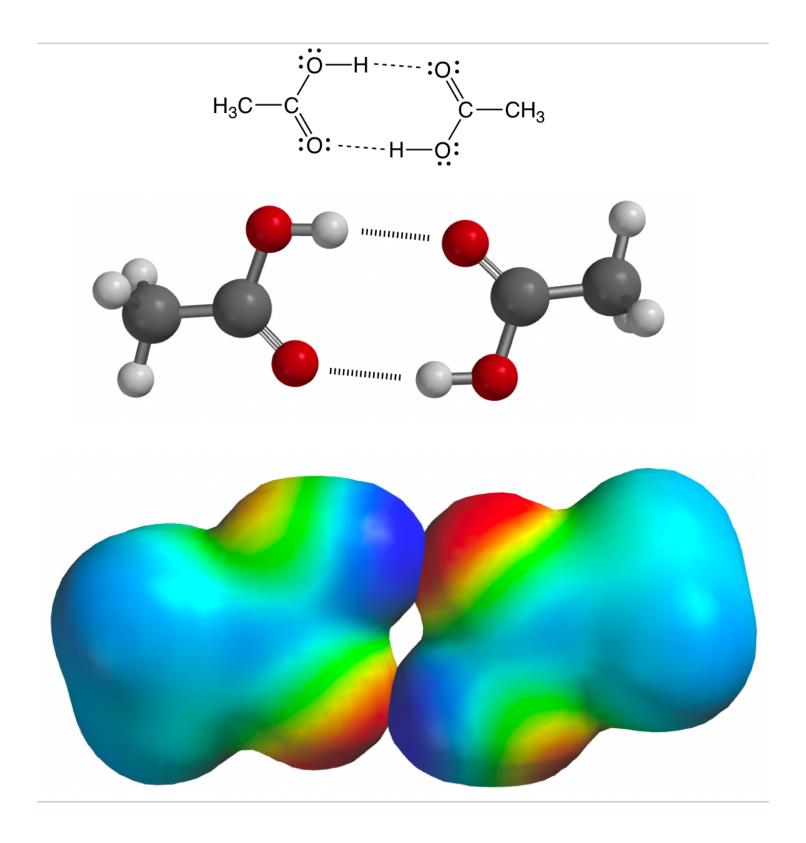
Enols are significant, however, because they react like ______, not carbonyls, and

this is important in certain situations.

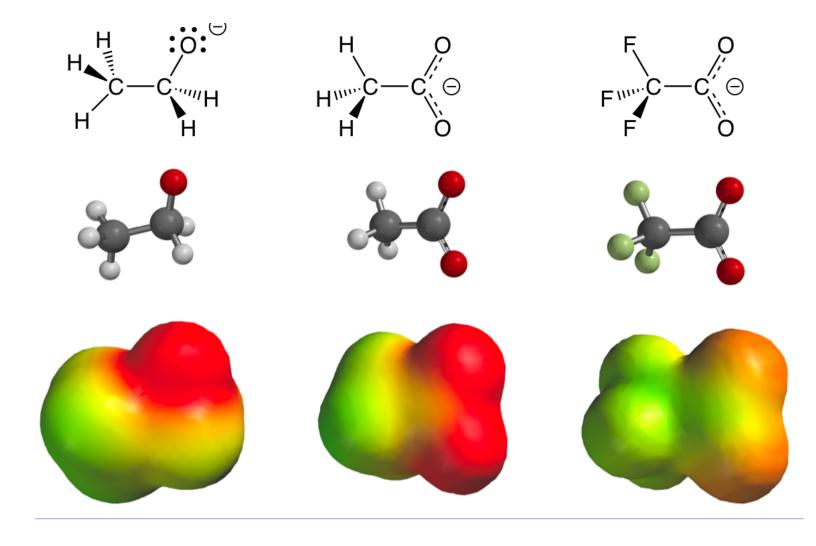








Acidity Revisited $H-A \ge H^{\oplus} + :A$ $K_q = \sum A = \sum A = \sum H = D$ [HA] $PKq = -los_1 K_q$



 $\frac{For an actid H-A}{K_{a} = \frac{[A:?]{EHO]}}{[HA]}} P K_{a} = -lo_{5} K_{a}$ $p H = -lo_{5} [HO]$ $\frac{K_{a}}{[HA]} = \frac{[A:?]}{[HA]} = \int O^{(pH-pK_{a})}$

If pH = 7 and $pK_q = 3$ $\frac{\{A: \}}{\{HA\}} = 10^{(pH - pK_a)} = 10^{(7-3)} = 10^{4}$