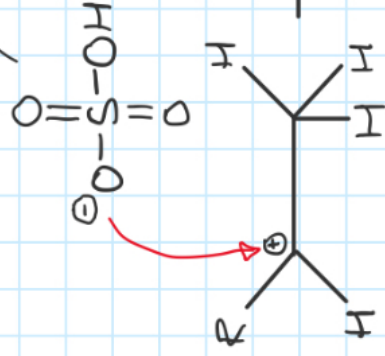


HOMO:  $\pi_{\text{C}=\text{C}}$

LUMO:  $\sigma^*_{\text{H}-\text{O}}$

cold

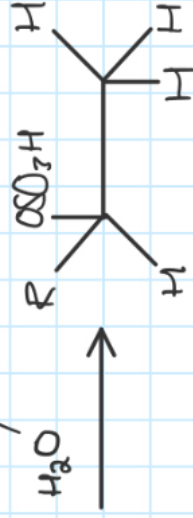
hydrogen sulfate /  
bisulfate ion.



HOMO: lone pairs

LUMO: empty  $p_c$

hydrolysis  
 $\text{H}_2\text{O}$



alcohol