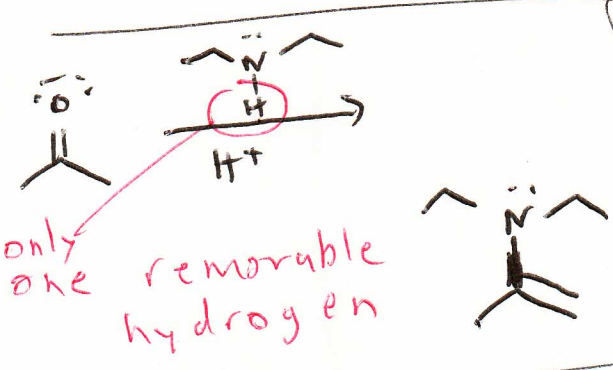
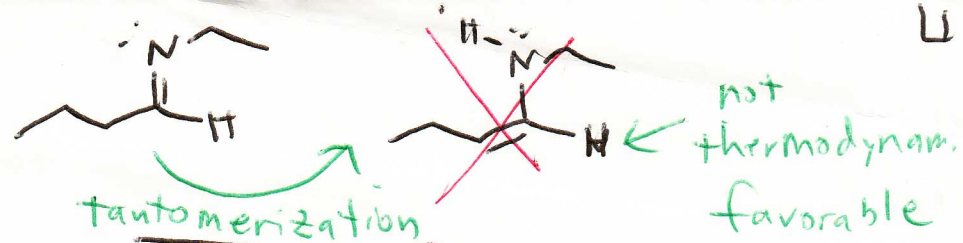
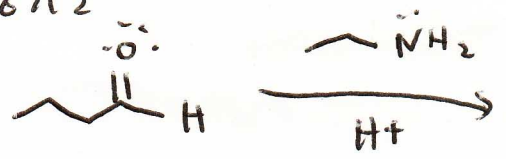
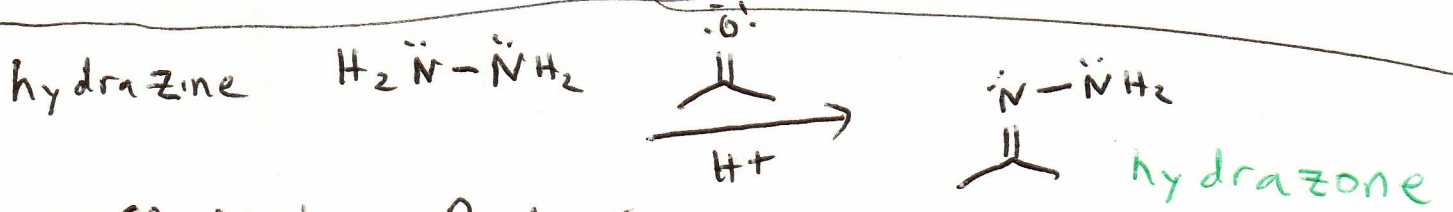


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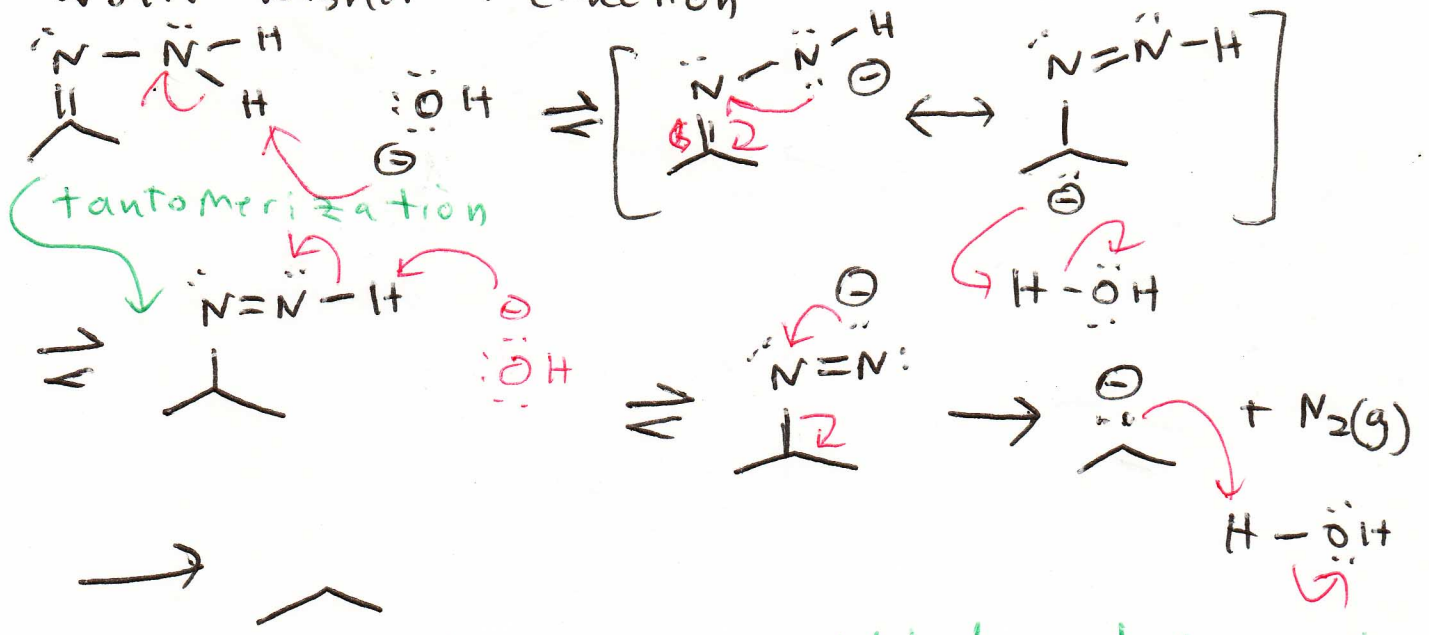


tautomerization
 C=N bond broken
 N-H bond formed
 C-H bond broken
 C=C bond formed

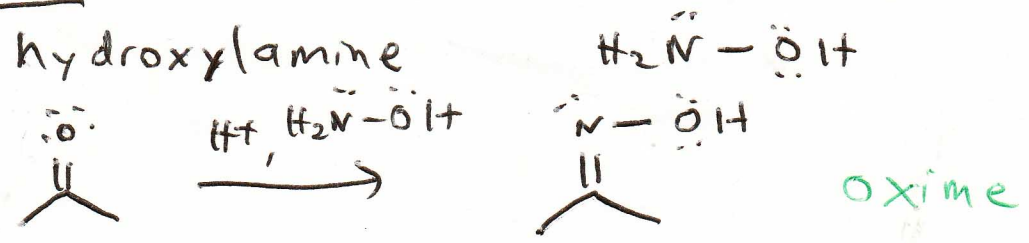
$\Delta H > 0$



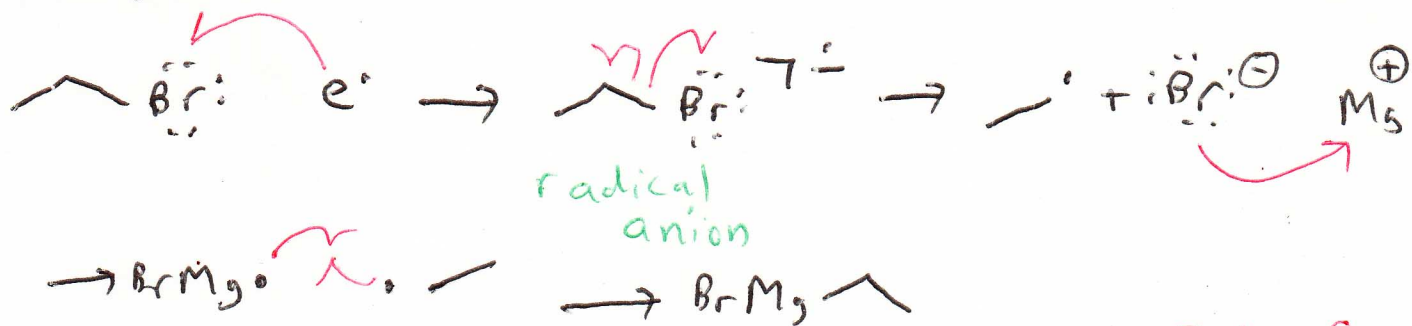
Wolff-Kishner Reduction



Synthetic utility: convert aldehydes + ketones to alkanes (reduction)



Grignard reagents



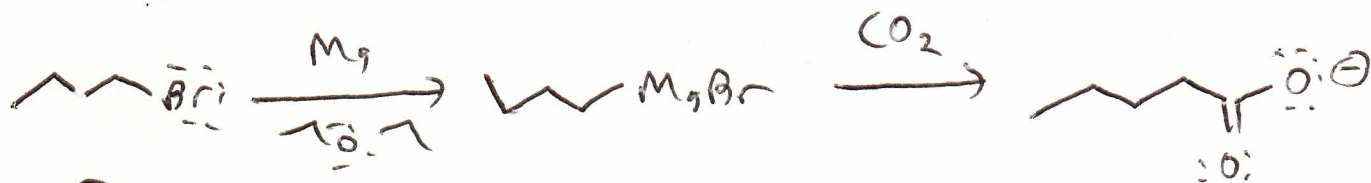
* Grignard reagents will only successfully form if an ether is present to complex w/ magnesium

Grignard reagents can be destroyed by:

-H₂O (or any protic compound)



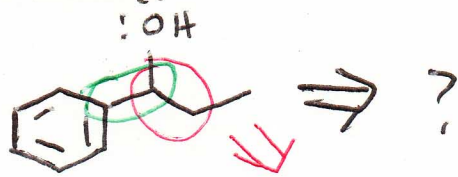
-CO₂



-O₂



Grignard reagents are ideally formed in flame-dried glassware under inert atmosphere (N₂, Ar)



• The alcohol is located at the carbon that used to be part of the C=O

• The new C-C bond must contain the carbon that was part of the C=O

