Announcements

- Mid-Quarter TA survey now open!
  - 2 pts added to lab score for participating.
  - Closes Sun 11:45 PM

- M5 & W5 sections: running iClicker registration & class roster sync on Thurs morning.
Your Questions

None tagged.
Additional Questions?
From Last Week

A researcher asks their assistant to design an experiment to explore the effect of carbonyl structure on the reaction with phenyl grignard (PhMgBr). Is this an appropriate list of carbonyls? Choose Y/N and rationale.

Cl\(\text{CH}_3\)  \[\text{O}\]  \[\text{O}\]  \[\text{H}\]  \[\text{O}\]  \[\text{O}\]  \[\text{CH}_3\]  \[\text{CH}_3\]

**Conclusion**

Y) Yes  
N) No  
M) Maybe

**Rationale**

A) List of carbonyls is widely varied, including a steric variable and electronic variables and an aldehyde.  
B) Only one Grignard reagent is being used.  
C) All reactions run under same conditions.  
D) Depends on the head researcher’s preferences.

33% YA  
34% NA  
33% other choices or cannot follow instructions.
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Wittig Analysis Practice (+ NMR Review!)

- Identify key peaks in spectrum. (Mixture! Don’t try to identify everything!)
- Calculate % conversion. (Assume aldehyde = L.R.)
- Calculate E:Z ratio for products. (E more downfield than Z)
Week 4 iClicker Question

A. ~100% E product
B. ~100% Z product
C. ~100% Wittig salt
D. ~100% aldehyde
E. Mixture of E & Z products
F. Mixture (~equal) of all reagents
G. Unexpected product