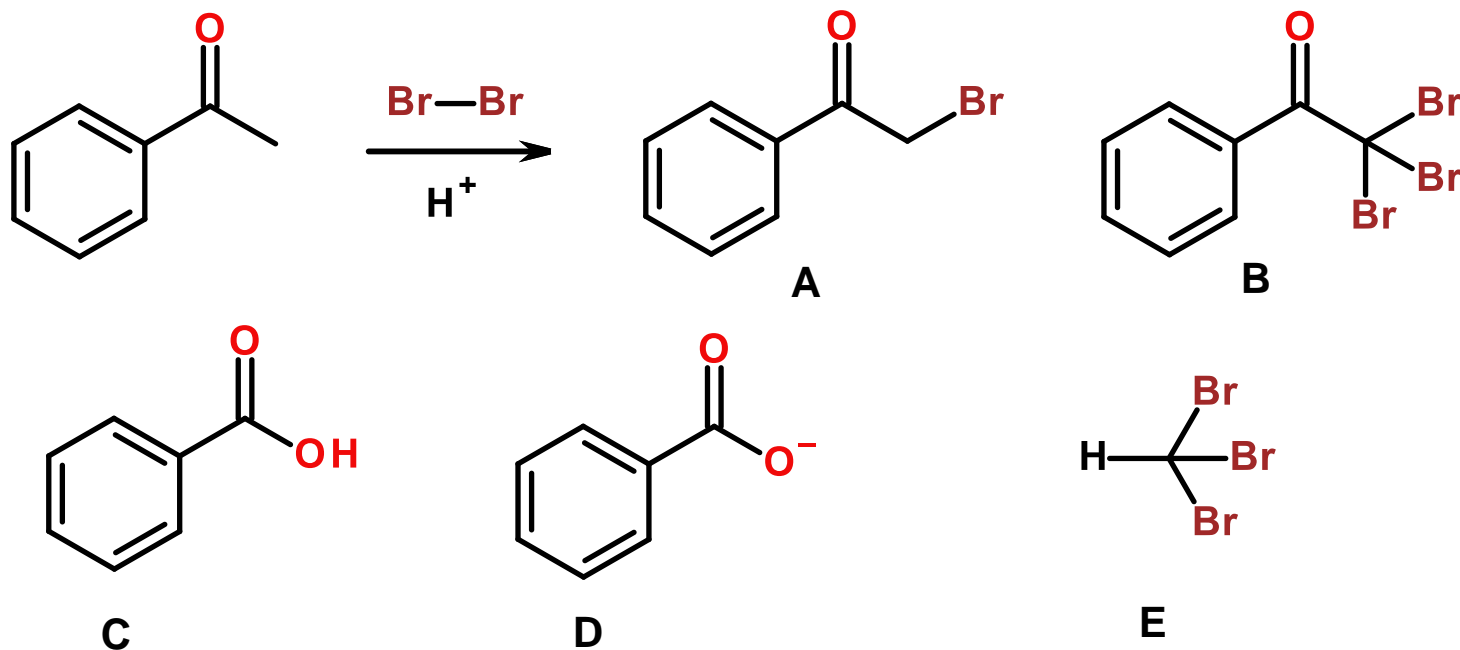
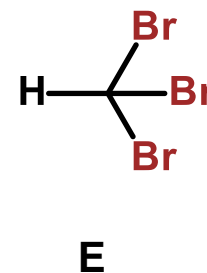
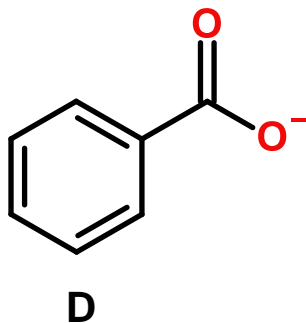
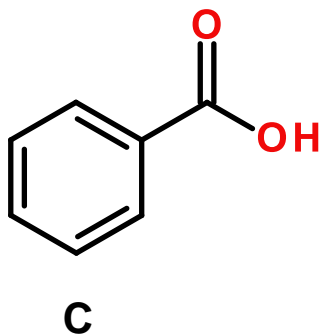
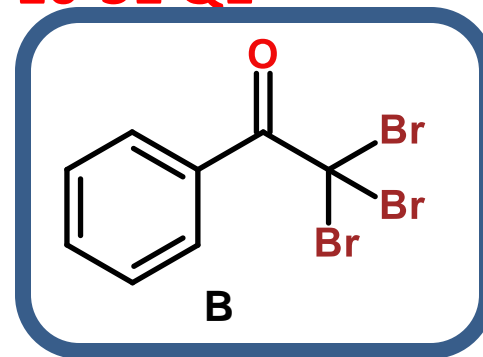
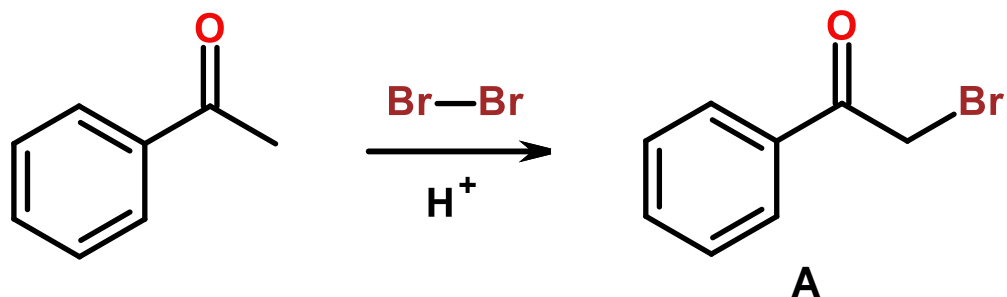


Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b) **2016-10-31 Q1**



F - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b) **2016-10-31 Q1**



F - None of these products are a major product of the reaction that is shown.

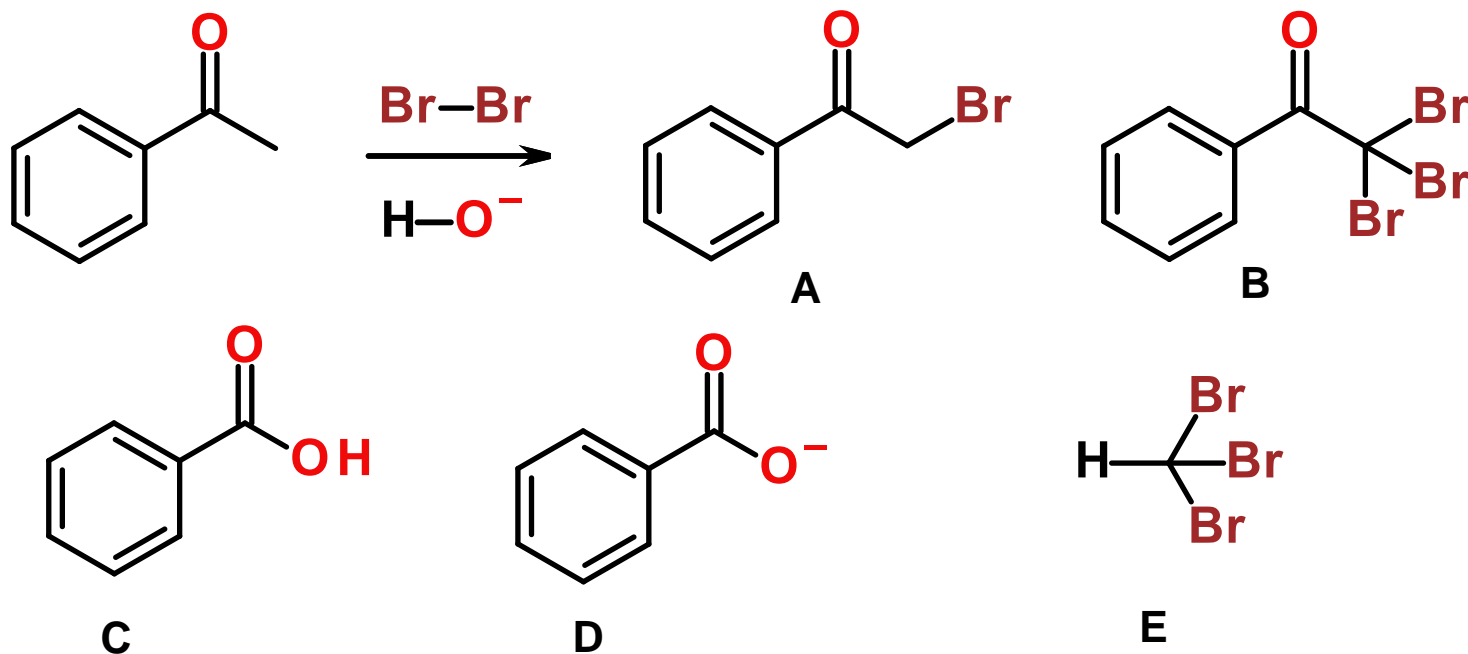
# Exam 3

- **Time:**
  - Tuesday, November 8: 7:00 – 9:00PM OR
  - Wednesday, November 9: 7:00 – 9:00PM OR
  - Thursday, November 10: 7:00 – 10:00PM
- **Location – Soc/Anthro Testing Center**
  - Chapters will be covered in this order: Chapter 17, 18
- **Practice Exams are Posted**
  - Ex3A Practice Exam 3A
  - Ex3B Practice Exam 3B
- **Deadline for alternate arrangements is Monday, 11/7/2016 at 4:30 PM (i.e., close of business)**
  - An oral make-up exam will be required for making up the exam for all students not taking the exam on the above dates or having already made prior arrangements

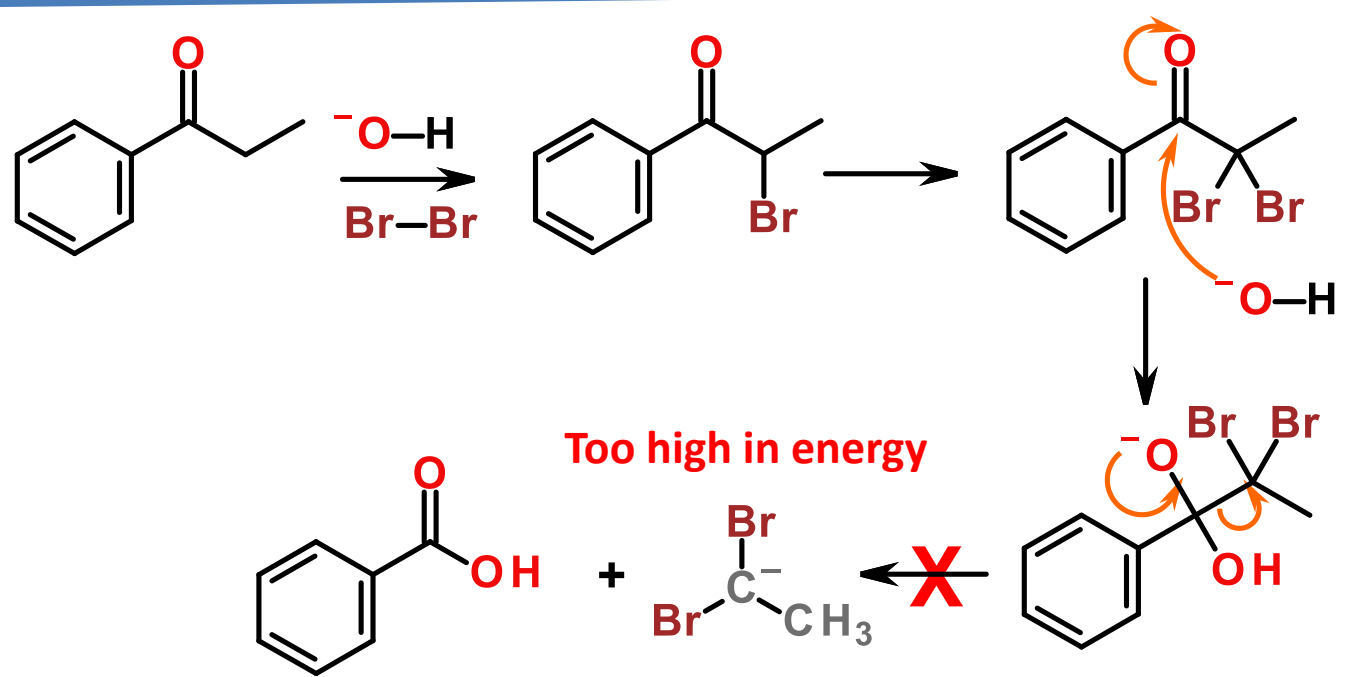
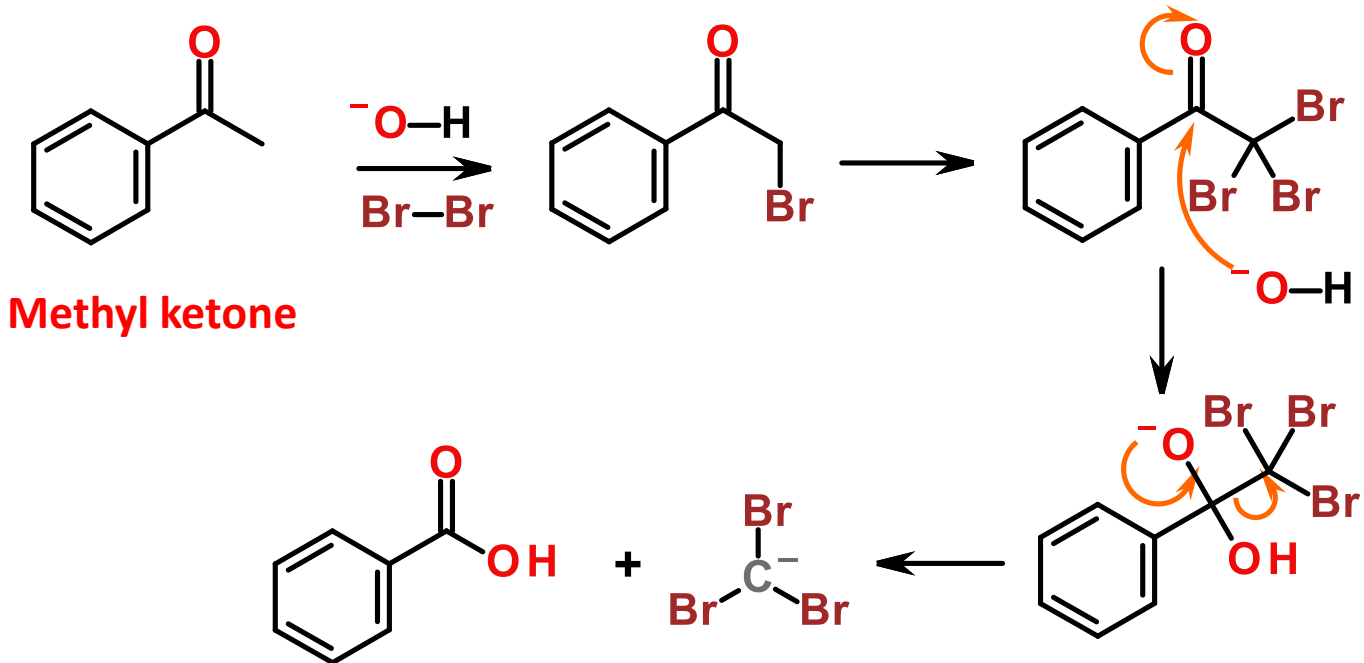
**Exam 3**  
**Lecture**  
**Planning**

Ex3-01-B7-17-01A Ketone Aldehyde Naming	Friday, October 22
Ex3-01-B7-17-01B Aldehyde Ketone Naming	Saturday, October 22
Ex3-02-B7-17-02A Ald Ket Rxns O-Nucl	Saturday, October 23
Ex3-02-B7-17-02B Ald Ket O-Nucleophiles	Sunday, October 24
Ex3-02-B7-17-02C Ald Ket Rxns O-Nucl	Monday, October 25
Ex3-03-B7-17-03A Ald Ket with N-Nucl	Tuesday, October 26
Ex3-03-B7-17-03B Ald Ket with N-Nucl	Wednesday, October 27
Ex3-03-B7-17-03C Ald Ket with N-Nucl	Thursday, October 28
Ex3-04-B7-17-04A Ald Ket with C-Nucl	Friday, October 29
Ex3-04-B7-17-04B Ald Ket with C-Nucl	Saturday, October 29
Ex3-04-B7-17-04C Ald Ket with C-Nucl	Sunday, October 30
Ex3-05-B7-18-01 Tautomers	Sunday, October 30
Ex3-06-B7-18-02B Alpha-Bromination	Monday, October 31
Ex3-06-B7-18-02C Alpha-Bromination	Tuesday, November 1
Ex3-07-B7-18-03B Alkylation Alpha-C=O	Wednesday, November 2
Ex3-07-B7-18-03C Alkylation Alpha-C=O	Thursday, November 3
Ex3-08-B7-18-04B Malonic Ester Synthesis	Friday, November 4
Ex3-08-B7-18-04C Malonic Ester Synthesis	Saturday, November 5
Ex3-09-B7-18-05 Fatty Acids	Sunday, November 6
<b>Exam 3</b>	<b>November 8, 9, 10</b>

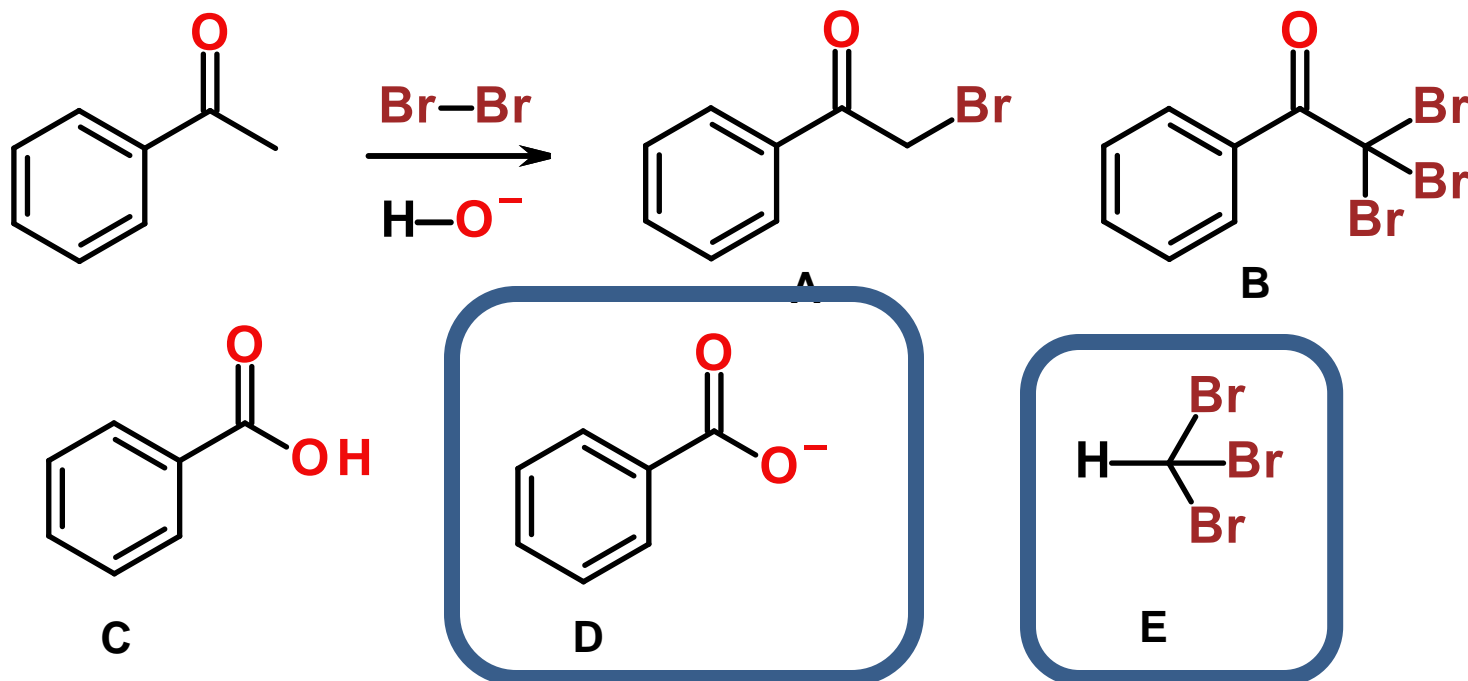
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b) **2016-10-31 Q2**



F - None of these products are a major product of the reaction that is shown.



Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b) **2016-10-31 Q2**



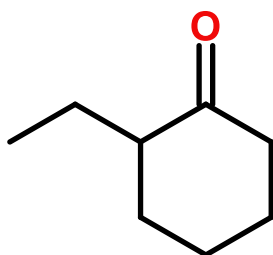
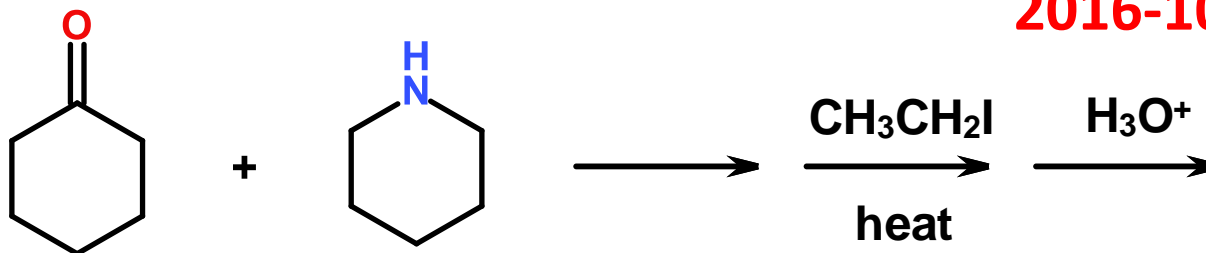
F - None of these products are a major product of the reaction that is shown.

No Class Friday

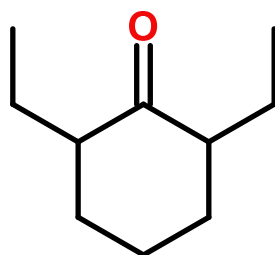


Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx ab)

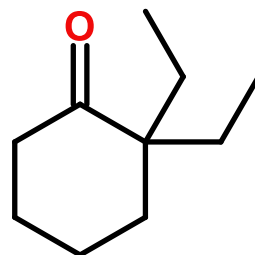
**2016-10-31 Q3**



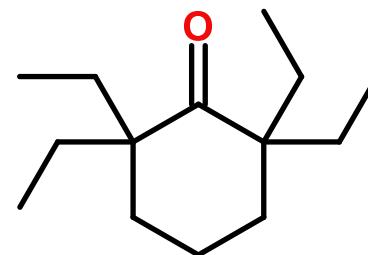
**A**



**B**



**C**

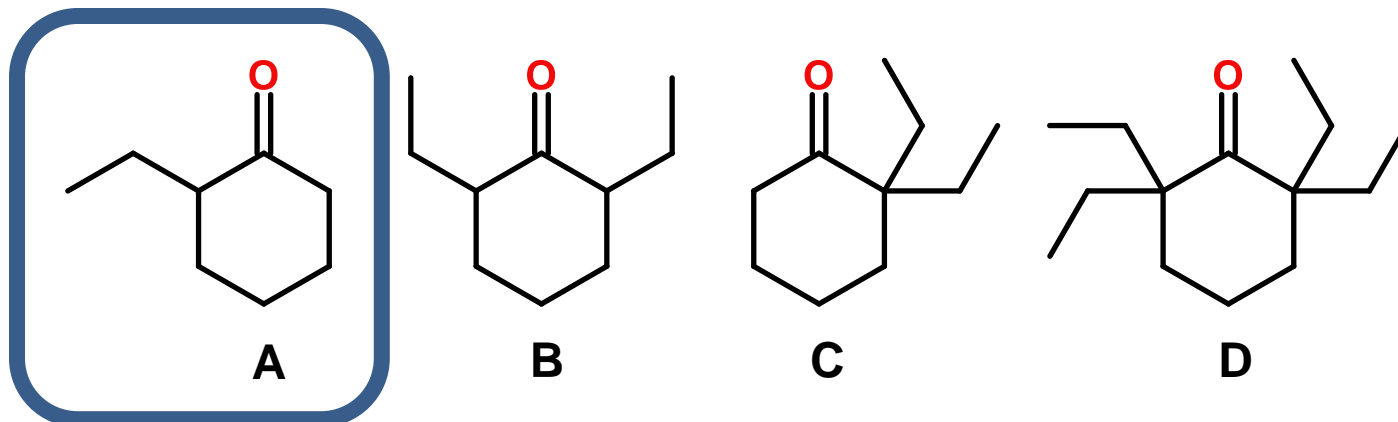
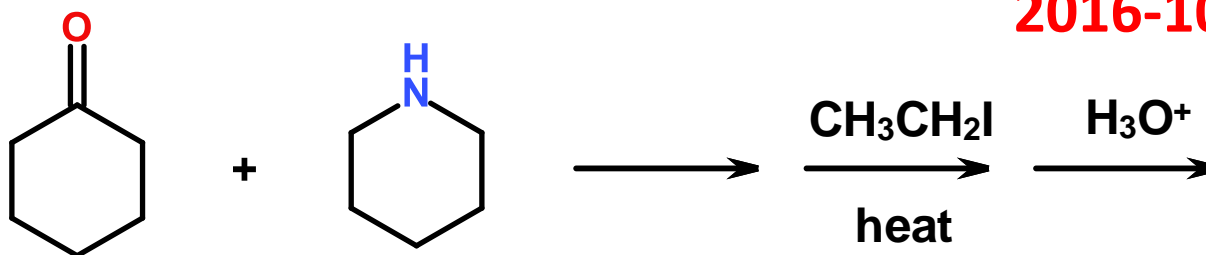


**D**

E - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx ab)

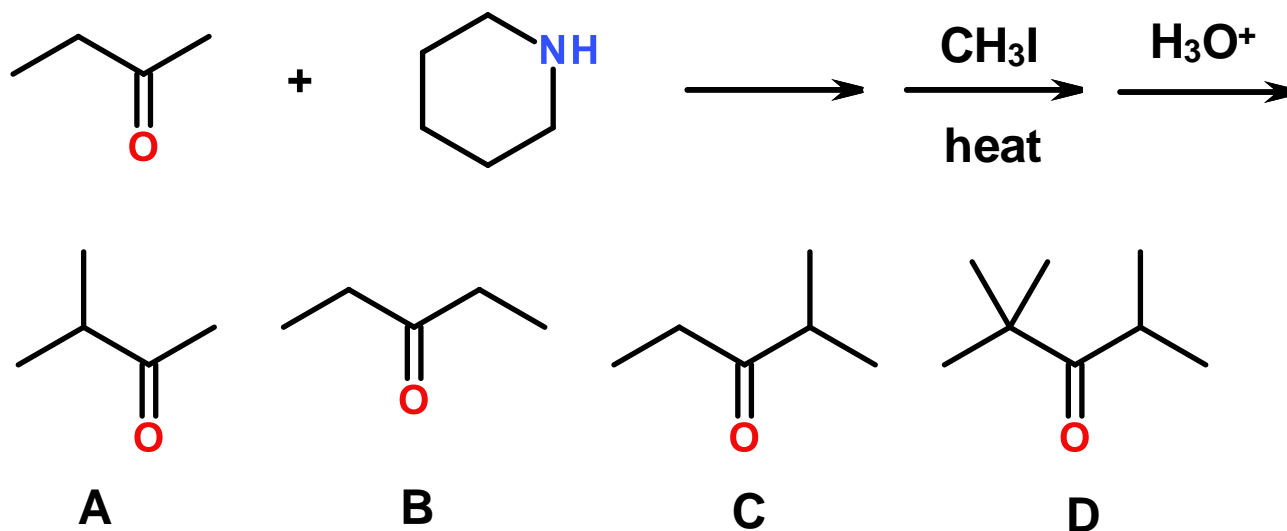
2016-10-31 Q3



E - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx ab)

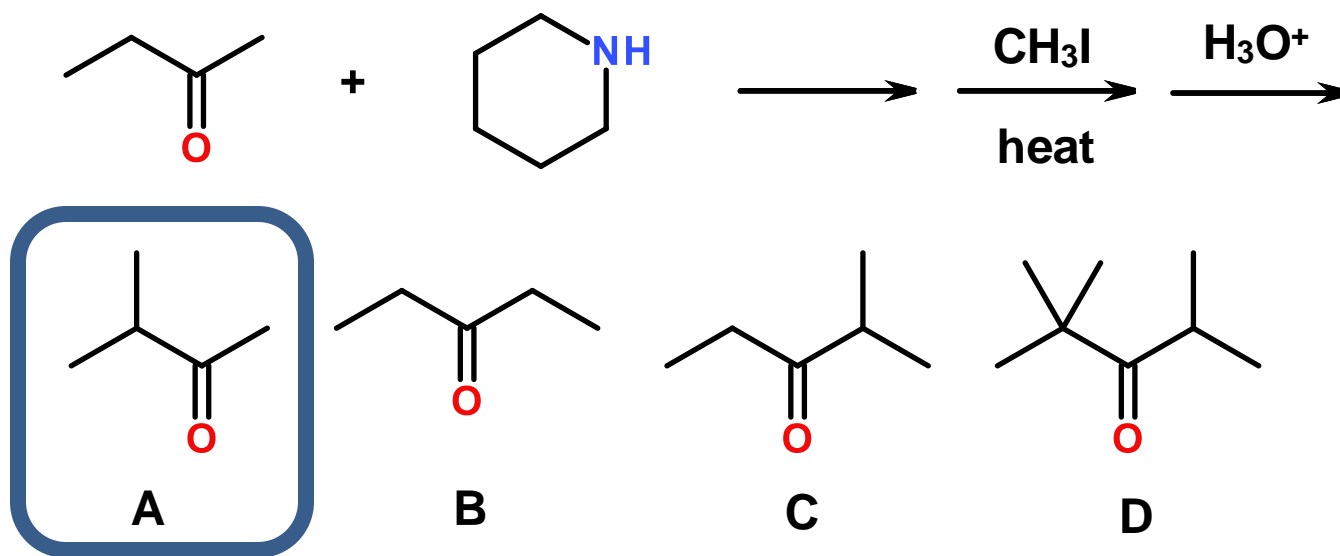
**2016-10-31 Q4**



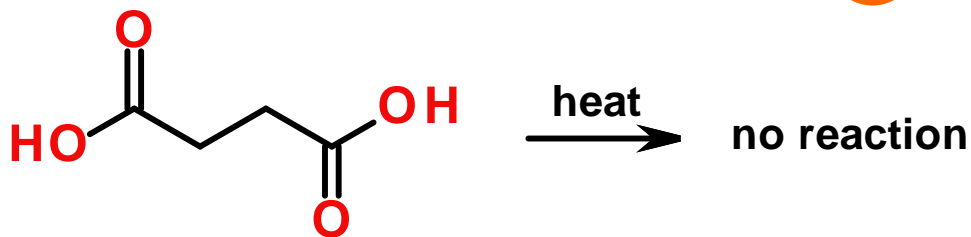
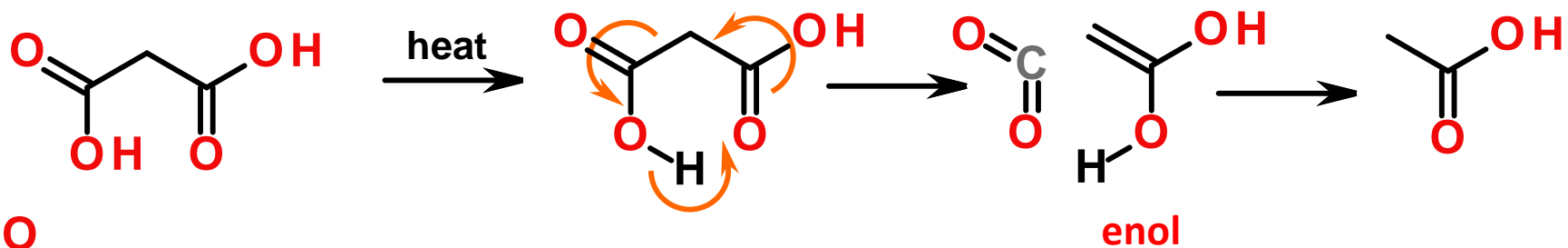
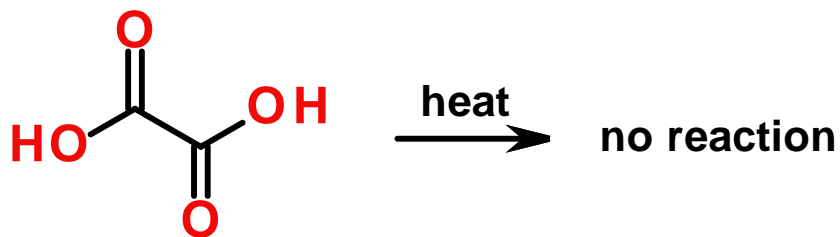
E - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx ab)

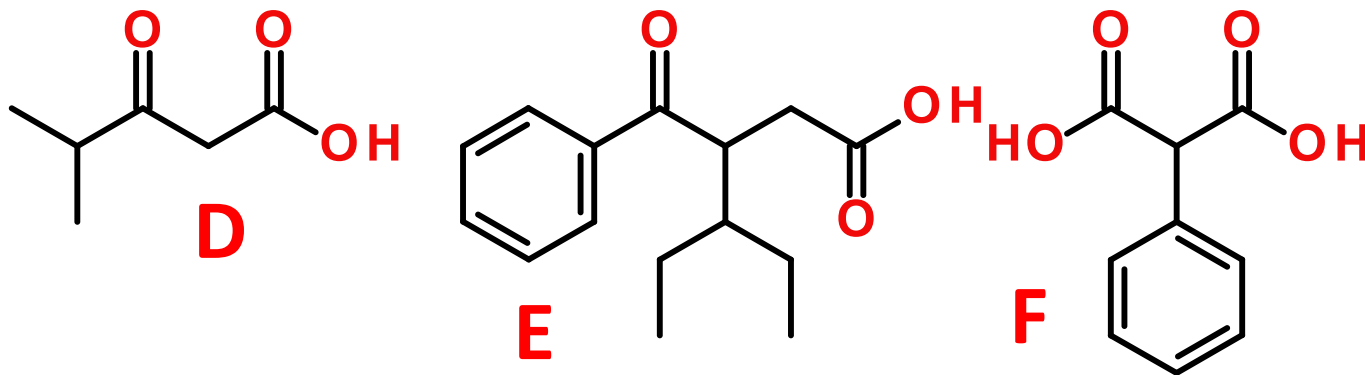
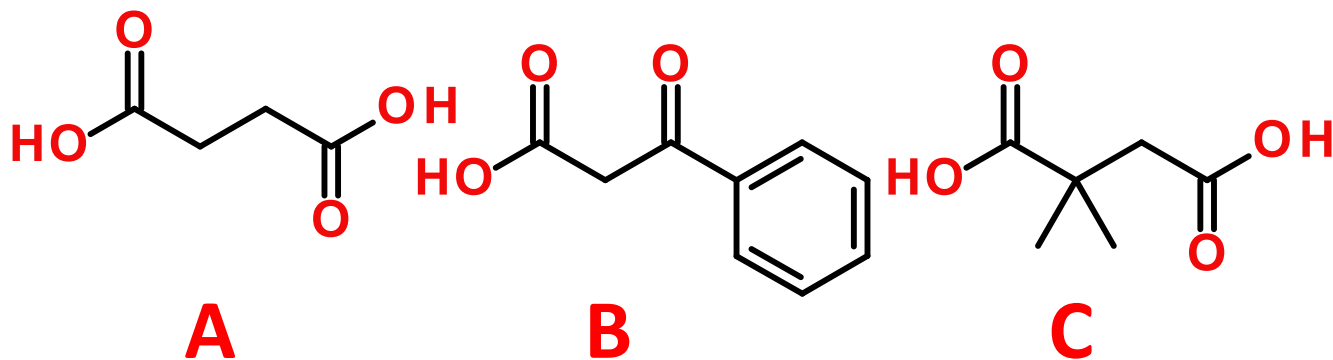
**2016-10-31 Q4**



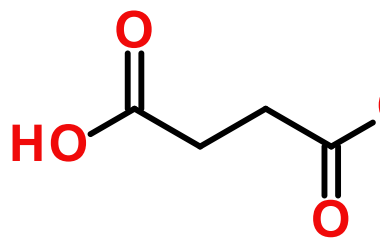
E - None of these products are a major product of the reaction that is shown.



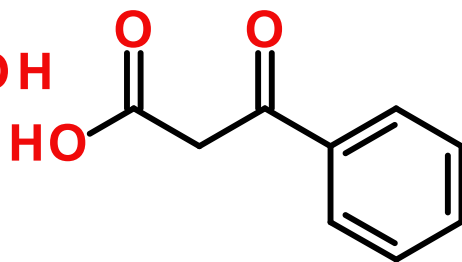
Which of the following compounds would be expected to eliminate  $\text{CO}_2$  when heated? **2016-10-31 Q5**



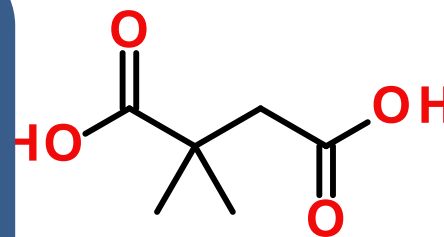
Which of the following compounds would be expected to eliminate  $\text{CO}_2$  when heated? 2016-10-31 Q5



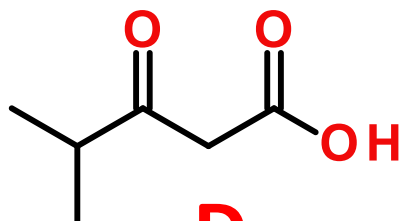
A



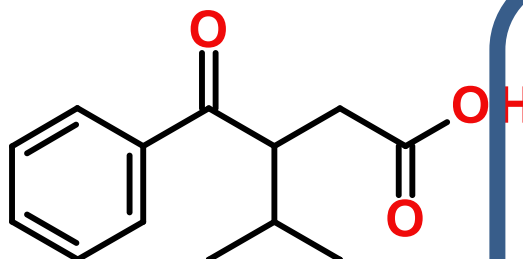
B



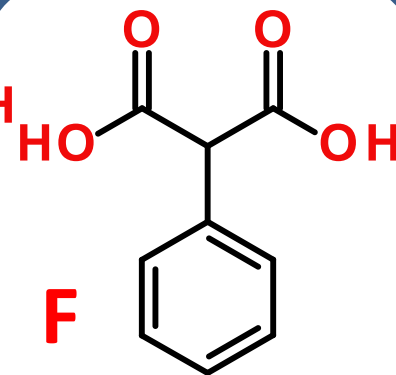
C



D

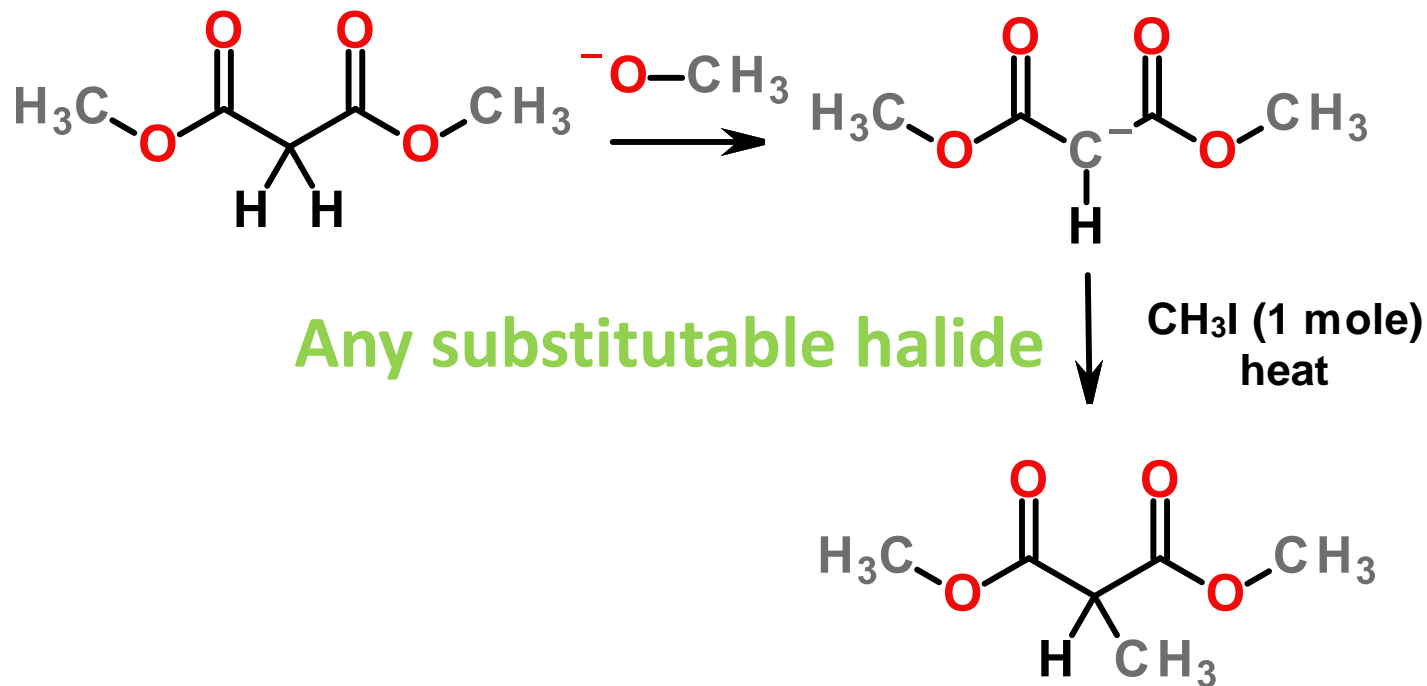


E



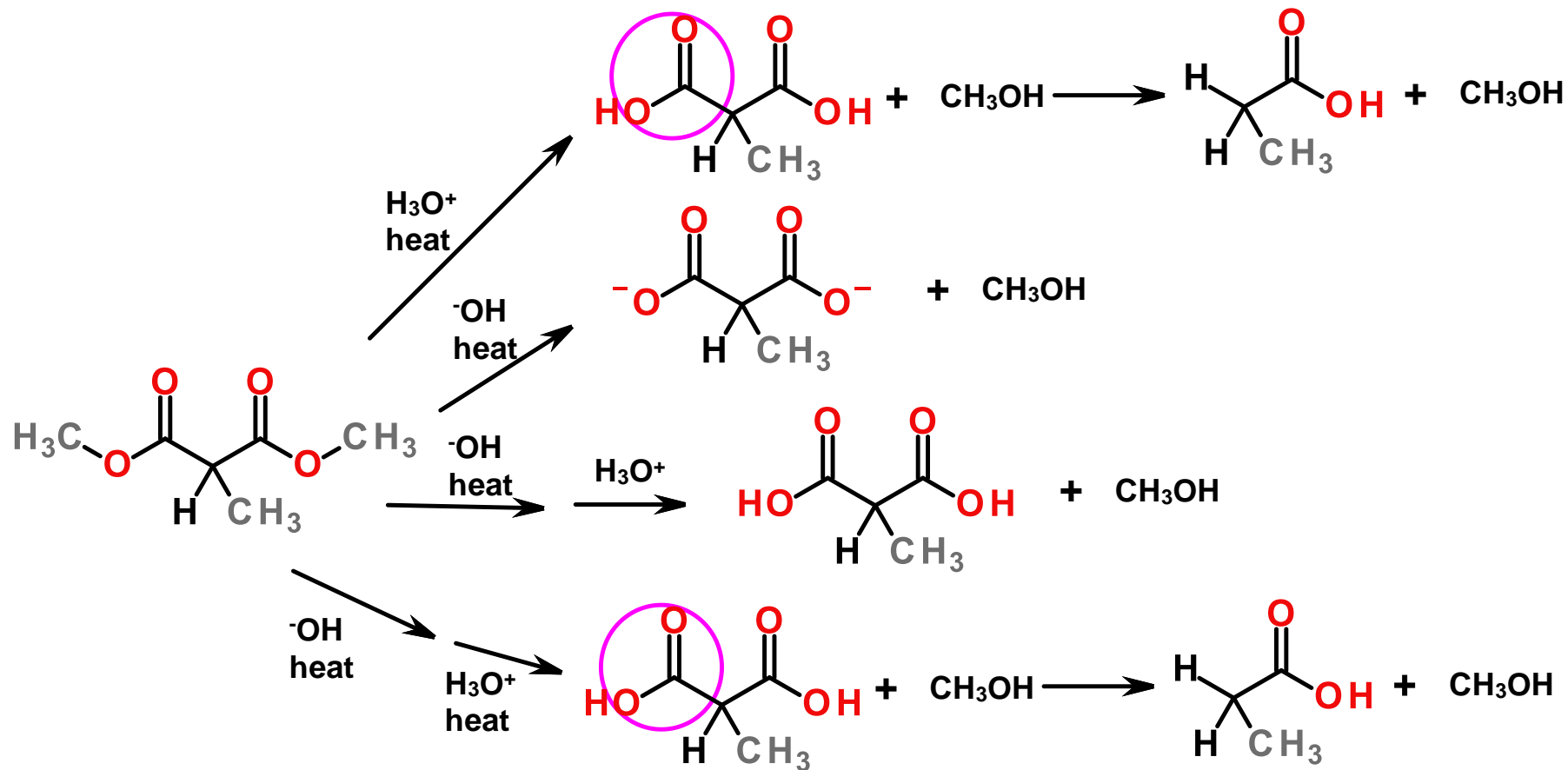
F

# Malonic Ester Synthesis

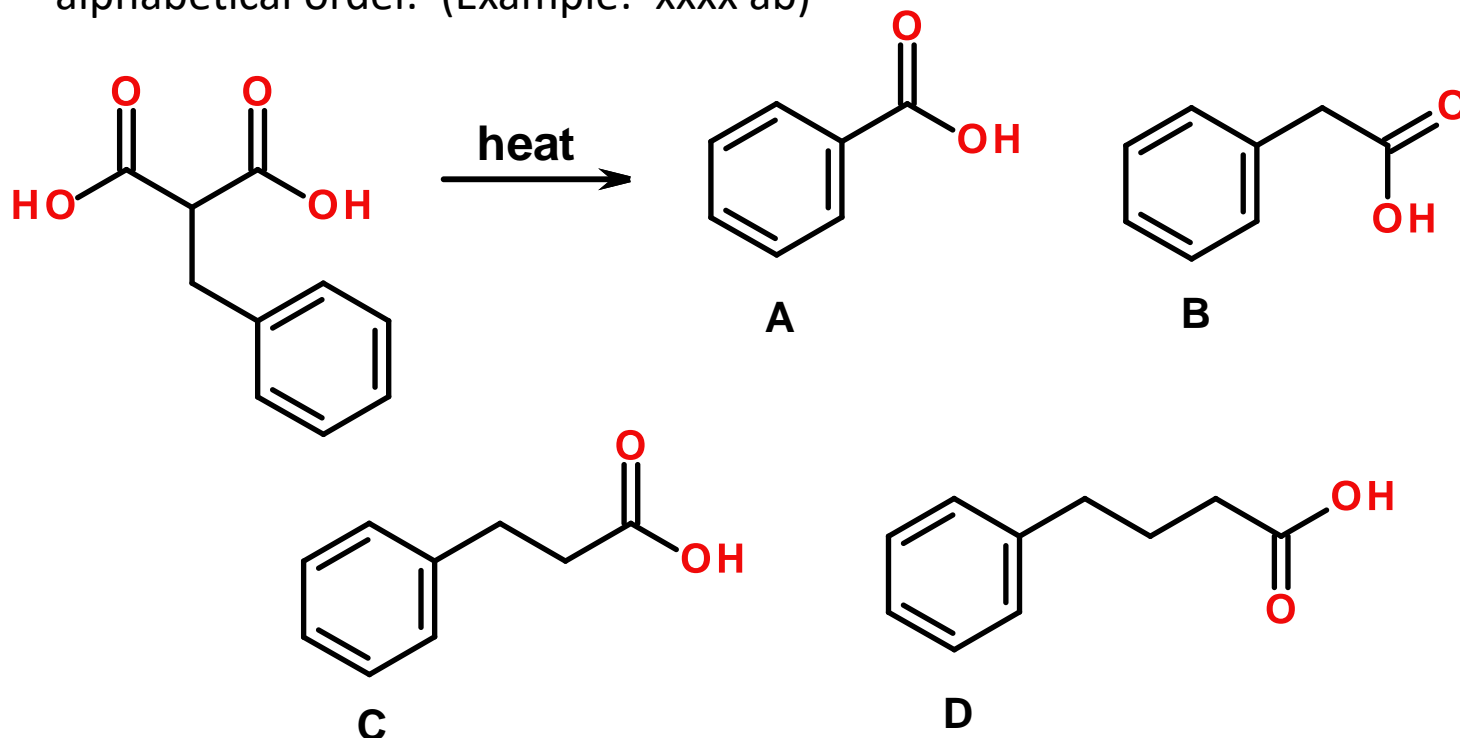




# Final Product Depends on Work-up Conditions



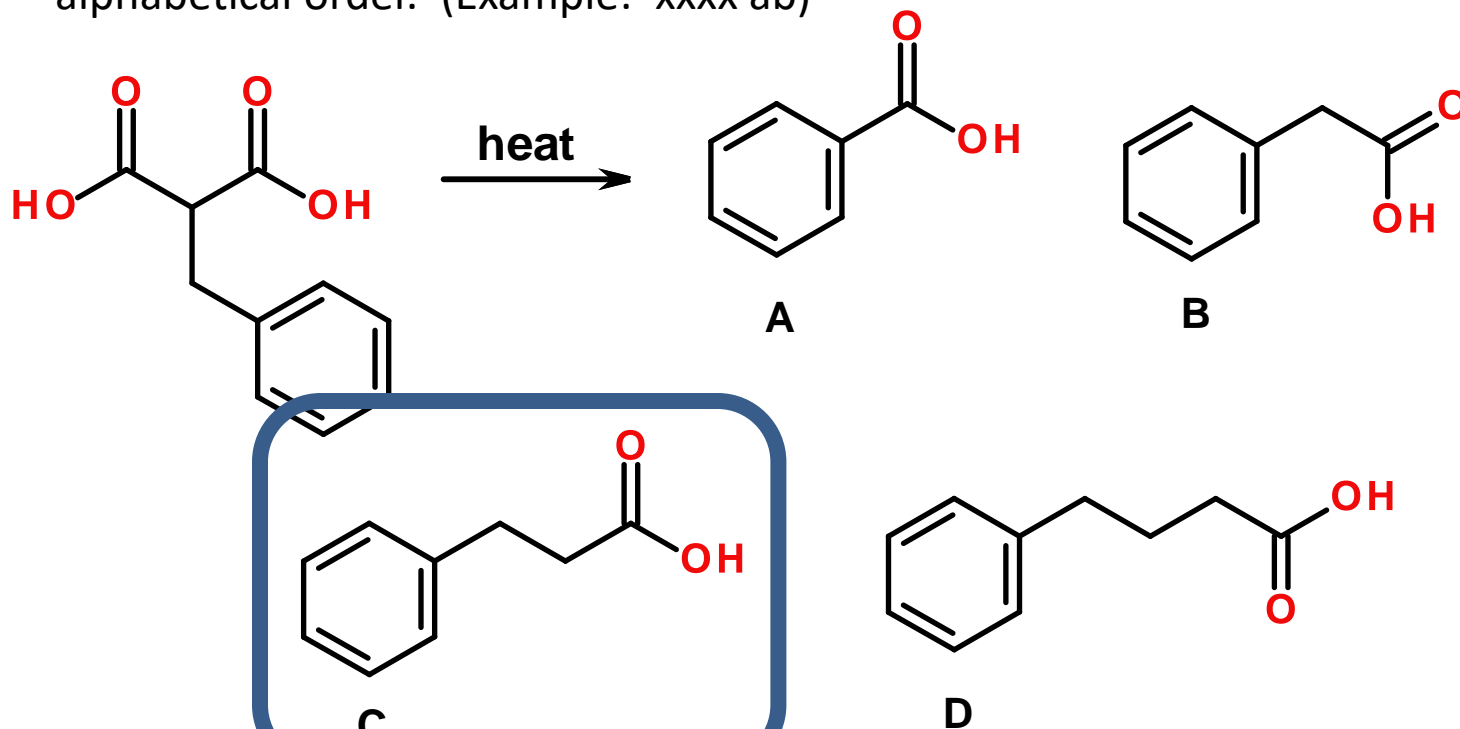
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx ab)



E - None of these products are a major product of the reaction that is shown.

**2016-10-31 Q6**

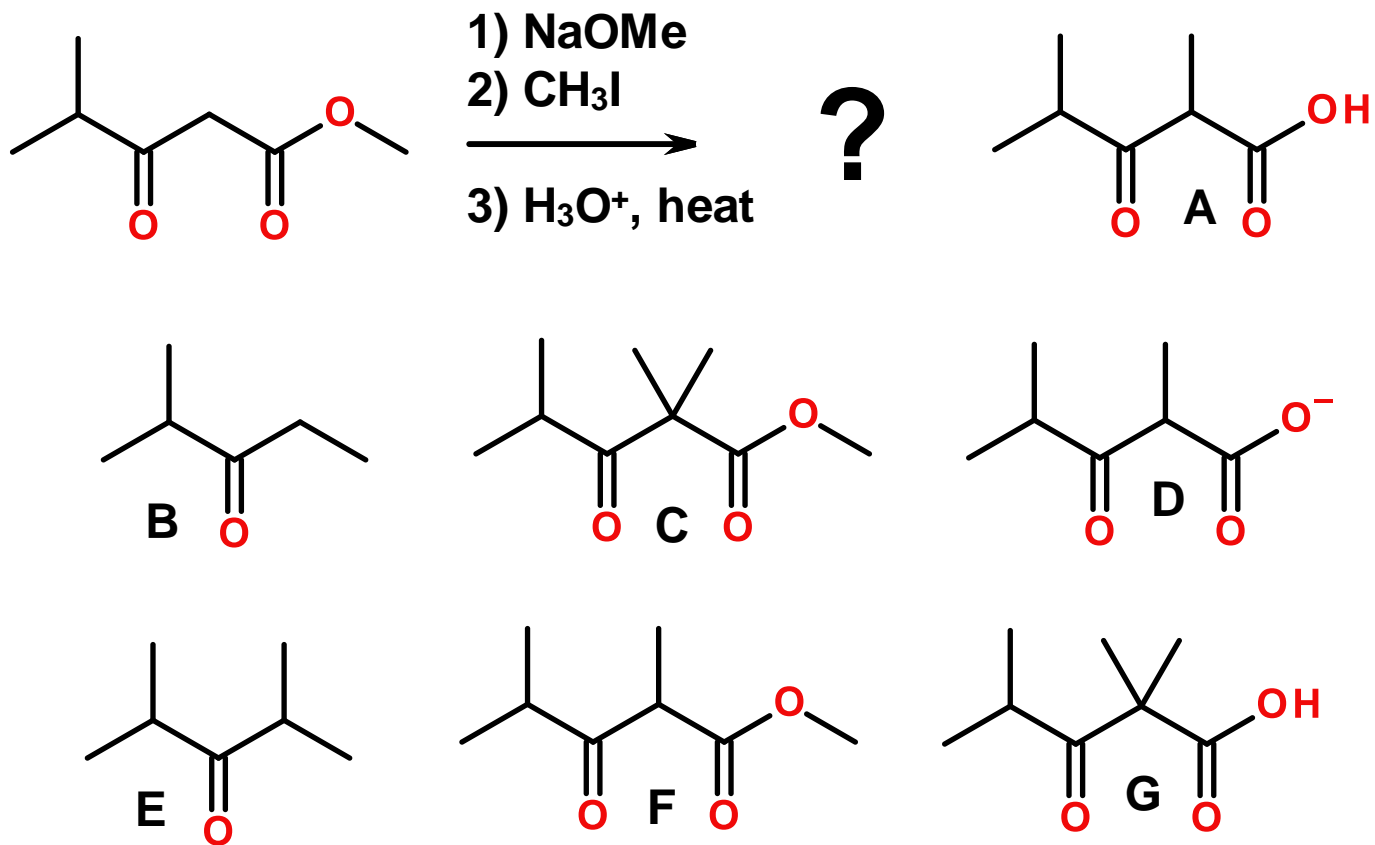
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx ab)



E - None of these products are a major product of the reaction that is shown.

**2016-10-31 Q6**

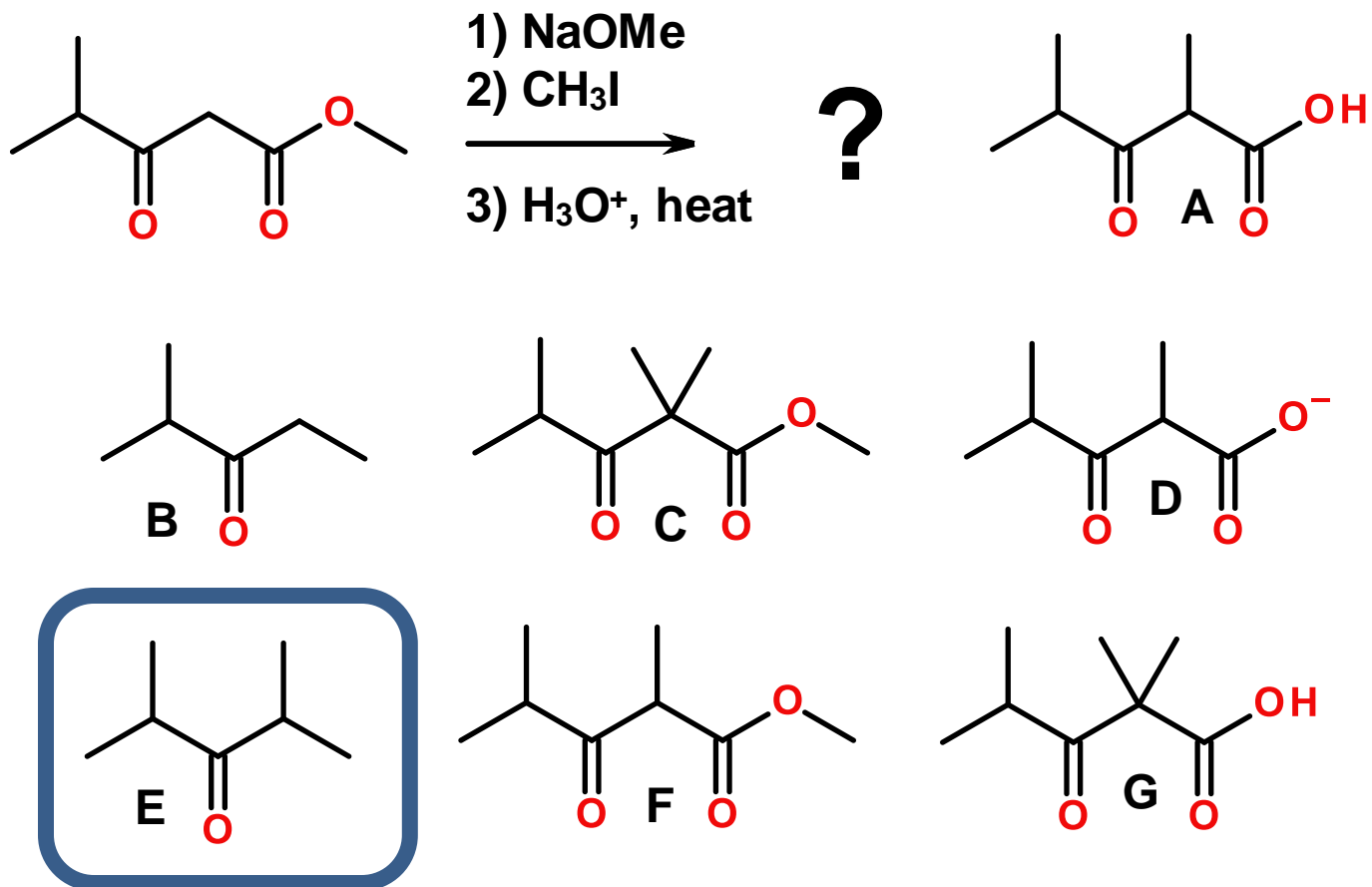
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx ab)



H - None of these products are a major product of the reaction that is shown.

**2016-10-31 Q7**

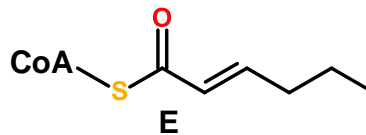
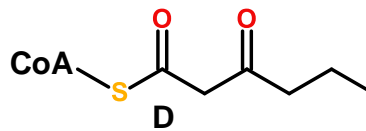
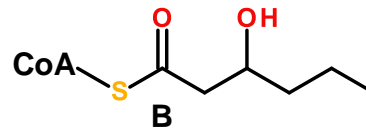
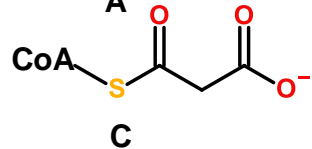
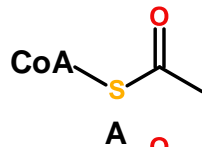
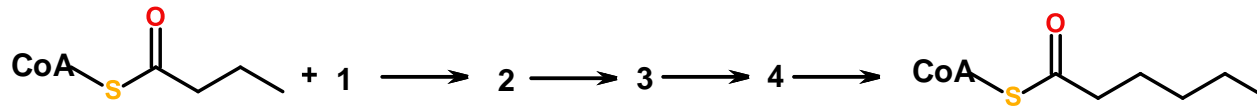
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx ab)



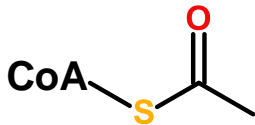
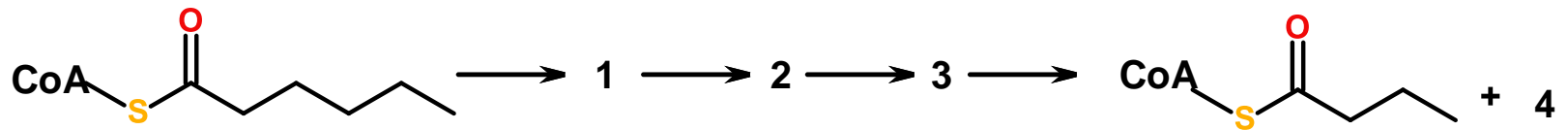
H - None of these products are a major product of the reaction that is shown.

**2016-10-31 Q7**

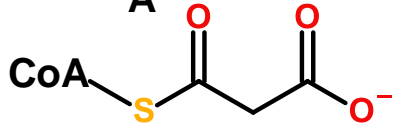
Consider the biological reaction shown below which converts fatty acids to larger fatty acids. Give the Correct identities for 1, 2, 3, and 4 in that order. (Example: xxxx ab)



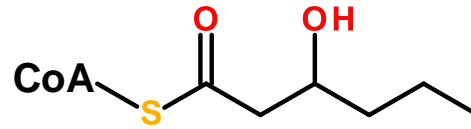
Consider the biological reaction shown below which converts fatty acids to larger fatty acids. Give the Correct identities for 1, 2, 3, and 4 in that order. (Example: xxxx ab)



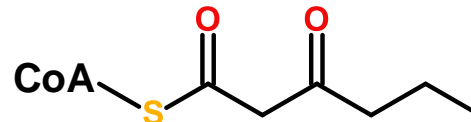
A



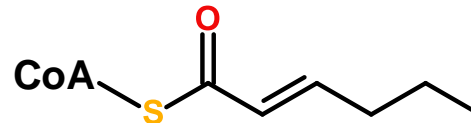
C



B

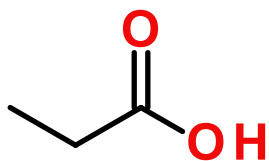
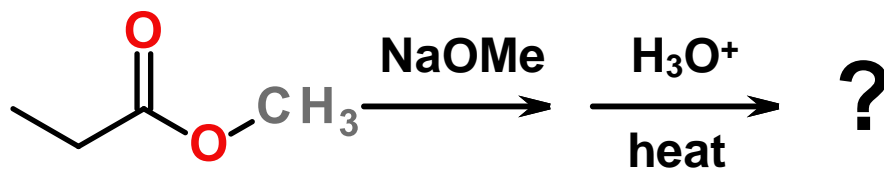


D

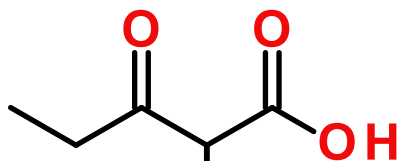


E

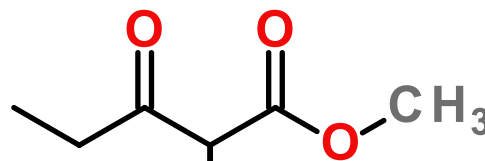
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)



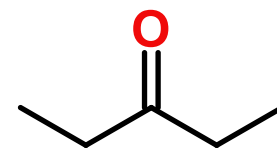
A



B



C

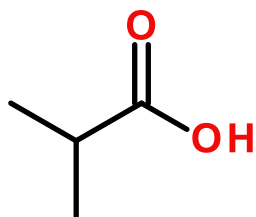
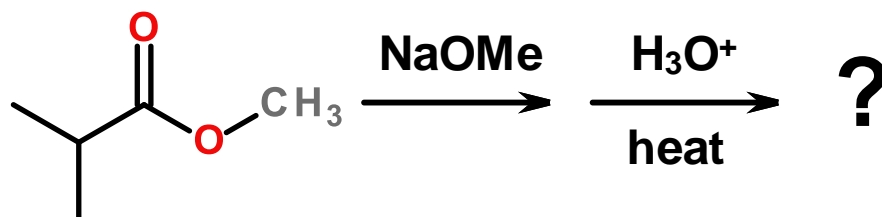


D

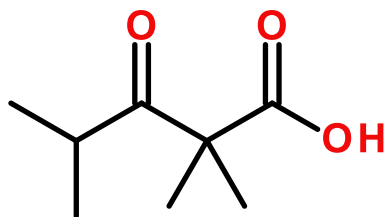
E - None of these products are a major product of the reaction that is shown.



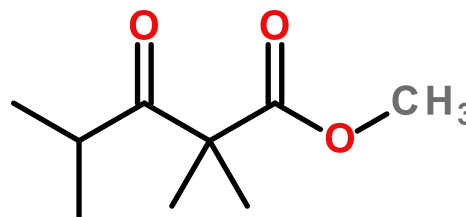
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)



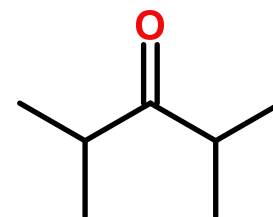
A



B



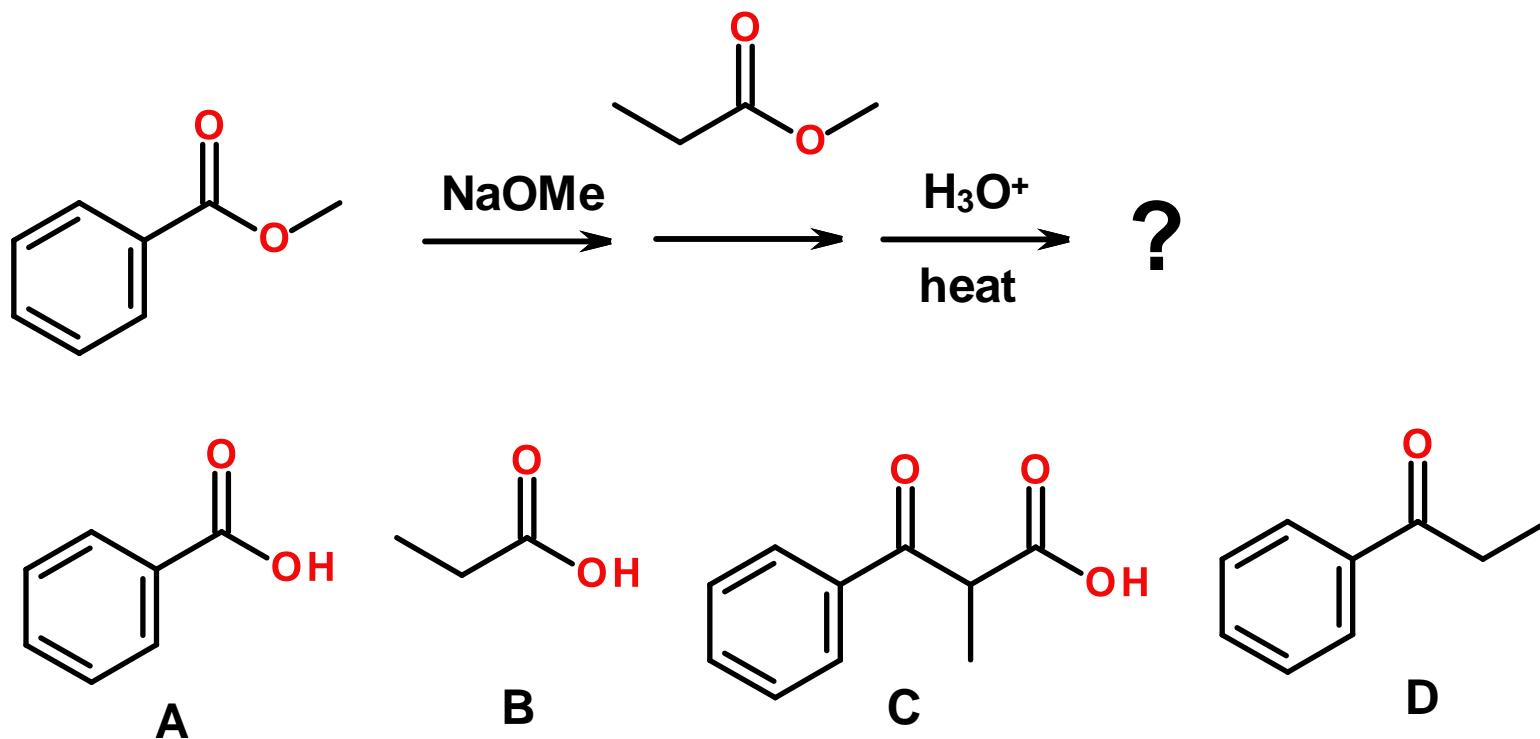
C



D

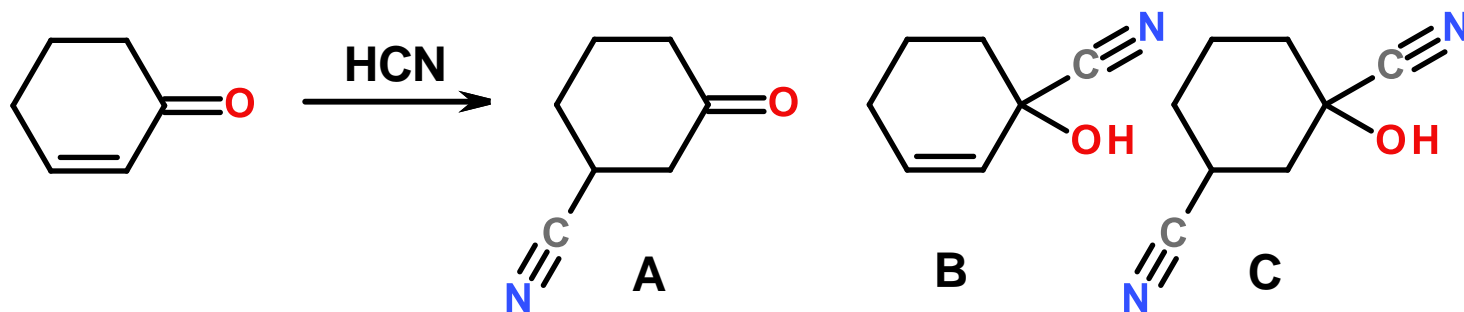
E - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)



E - None of these products are a major product of the reaction that is shown.

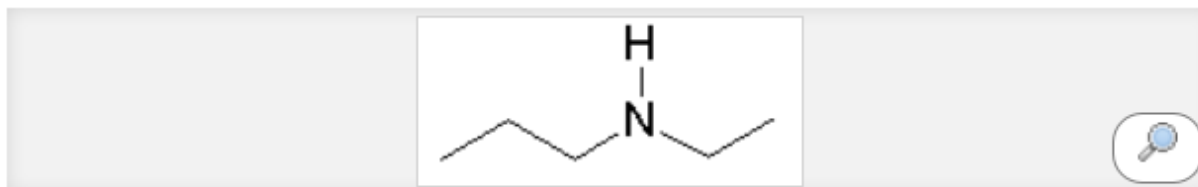
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)



**D** - None of these products are a major product of the reaction that is shown.

2013-11-11 Q2:

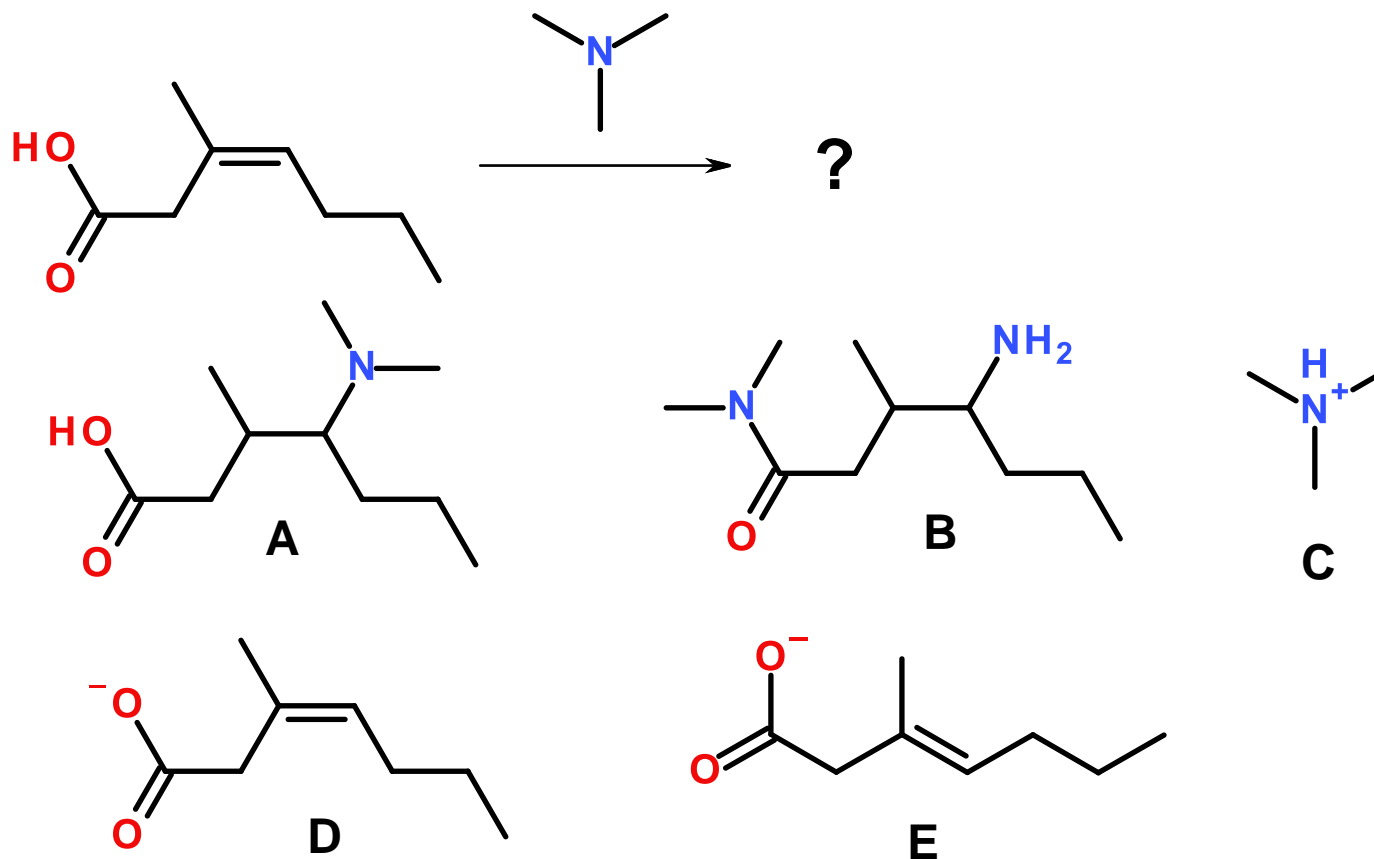
Give the common name for the following compound.



- a propylethylamine
- b ethylpropylamine
- c N-ethyl-1-propanamine
- d N-ethyl propyl amine

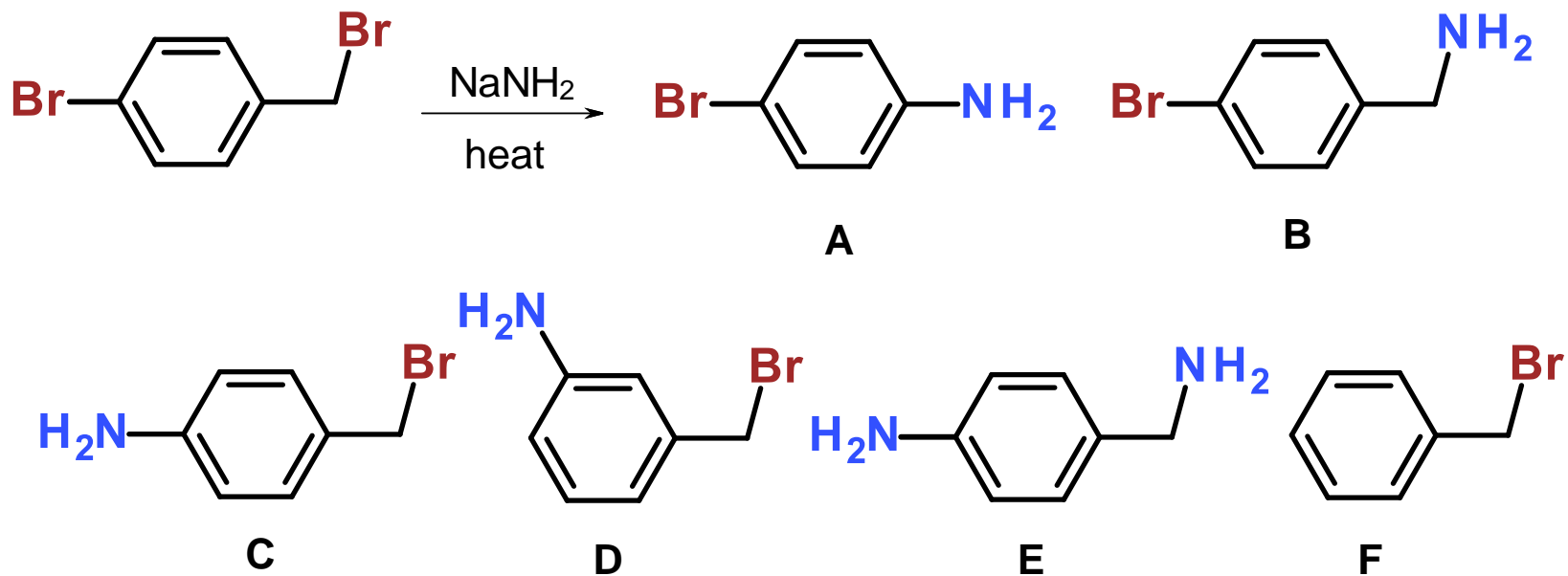
Close

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)



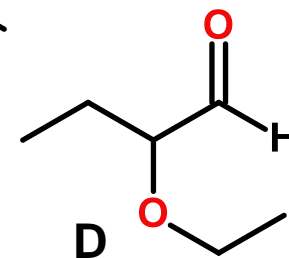
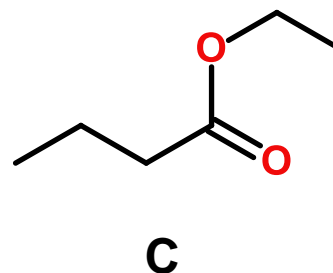
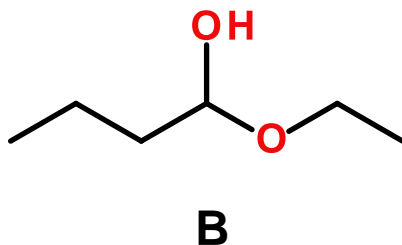
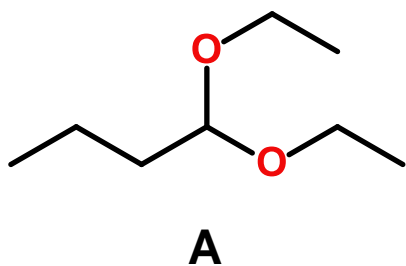
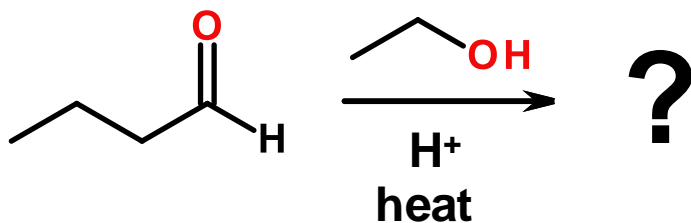
F - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)



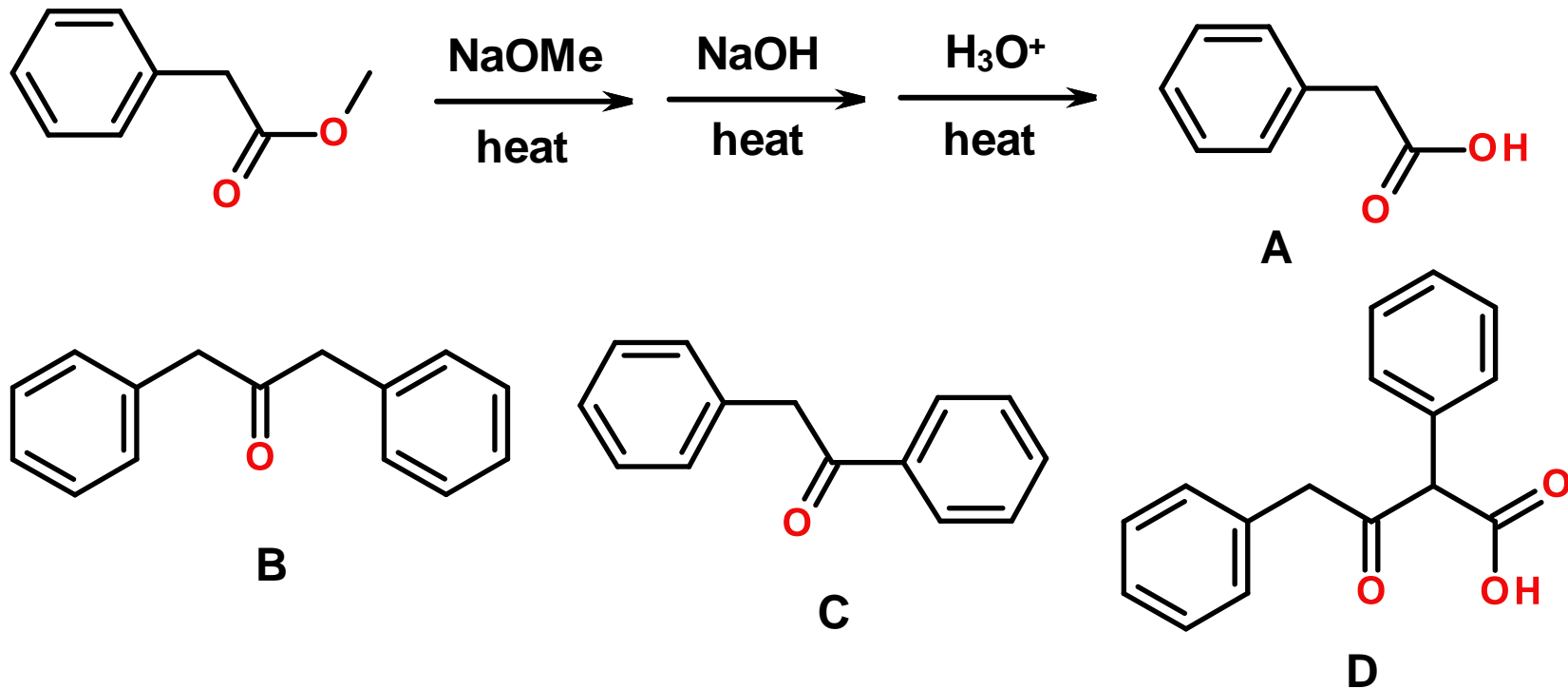
**G** - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)



E - None of these products are a major product of the reaction that is shown.

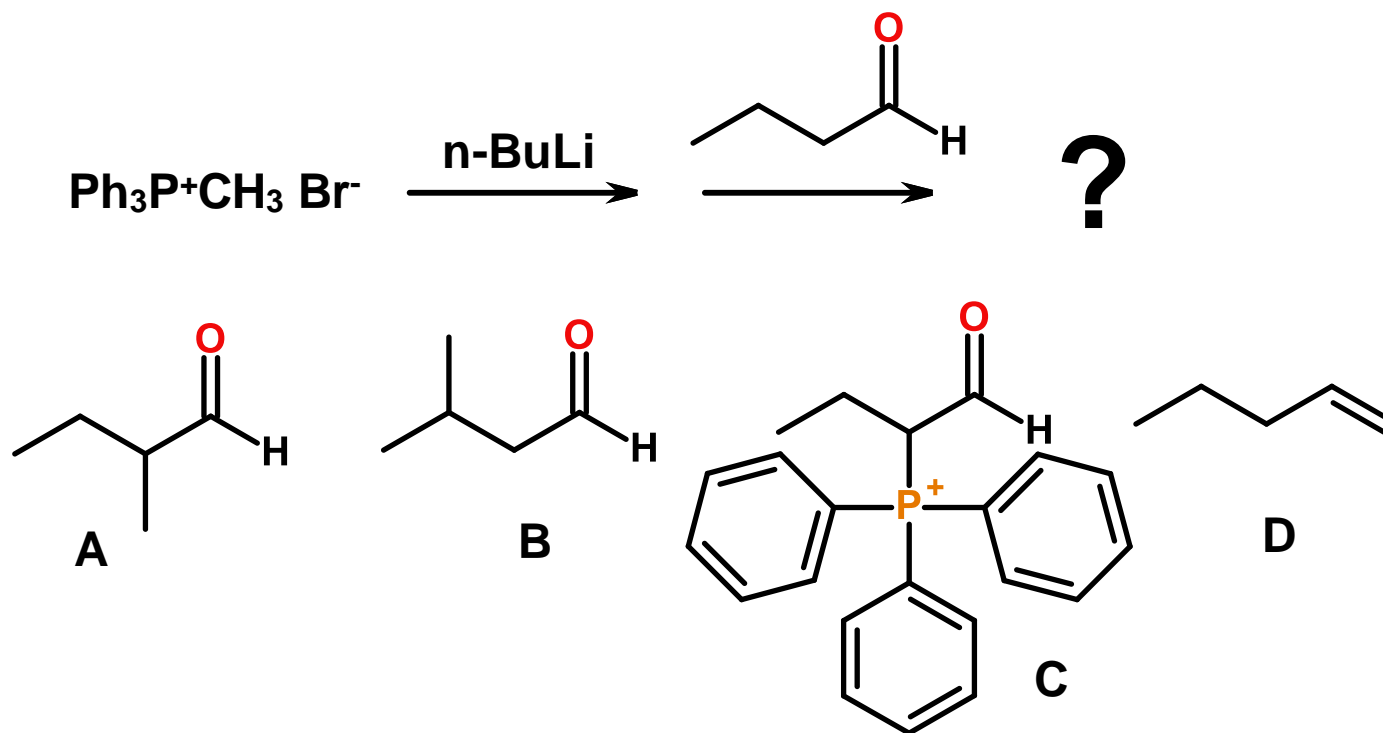
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)



E - None of these products are a major product of the reaction that is shown.

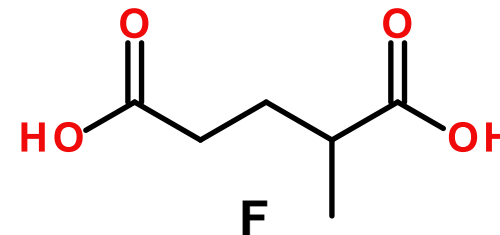
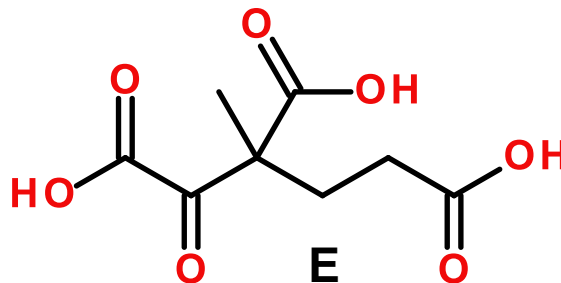
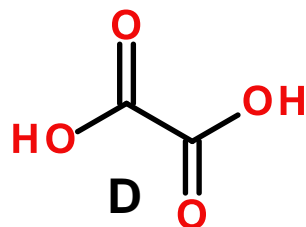
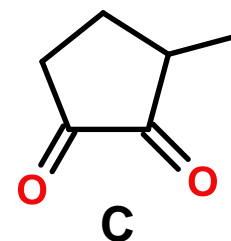
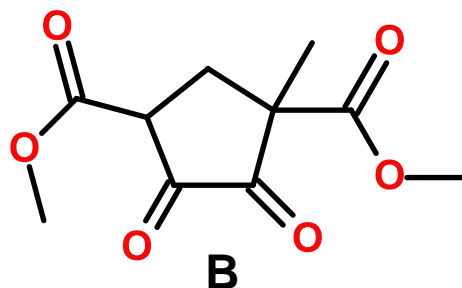
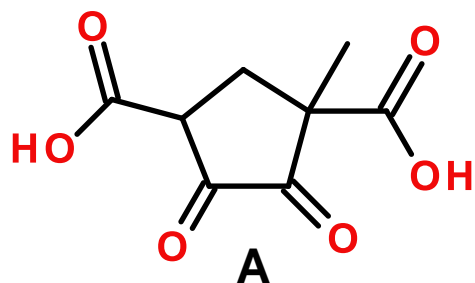
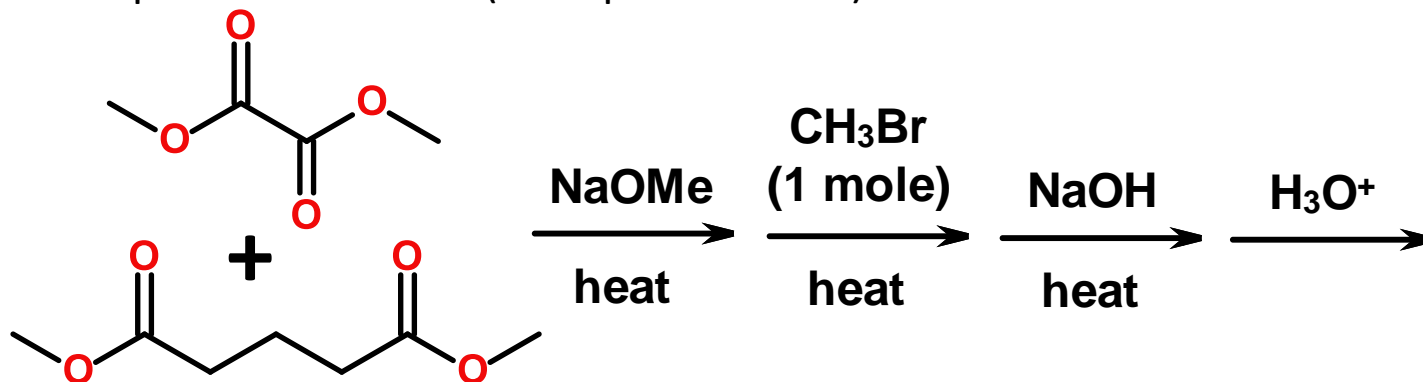


Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)



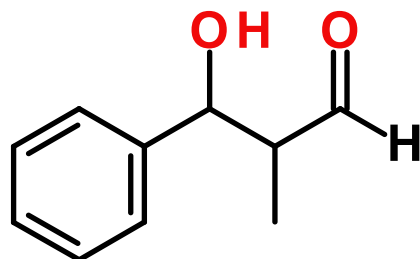
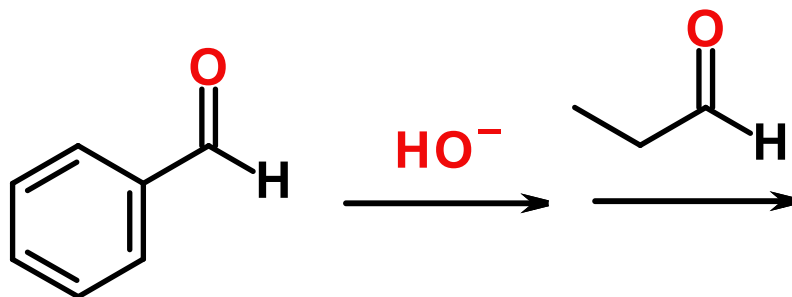
E - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)

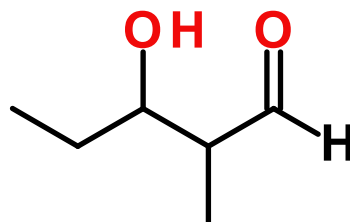


**G** - None of these products are a major product of the reaction that is shown.

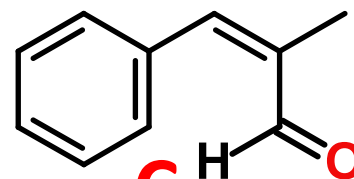
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b) **2016-10-28 Q2**



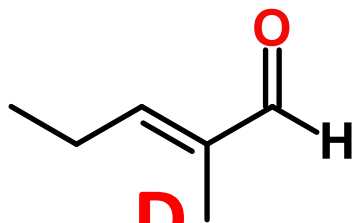
**A**



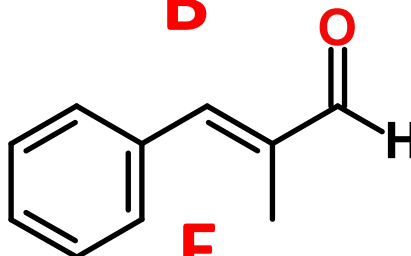
**B**



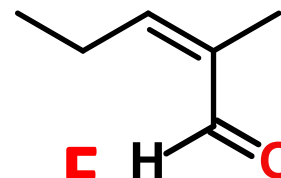
**C**



**D**



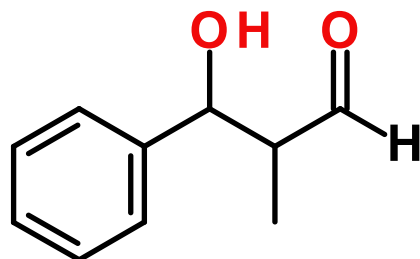
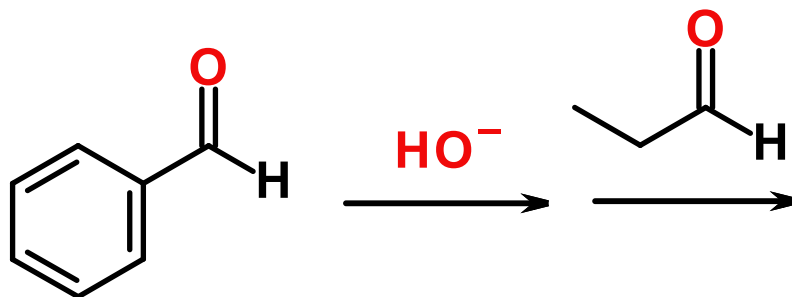
**E**



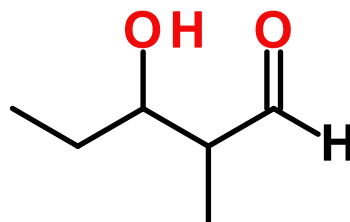
**F**

**G** - None of these products are a major product of the reaction that is shown.

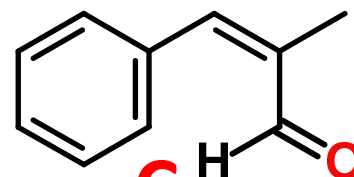
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b) **2016-10-28 Q2**



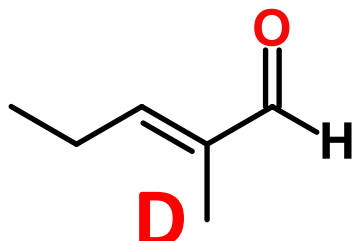
**A**



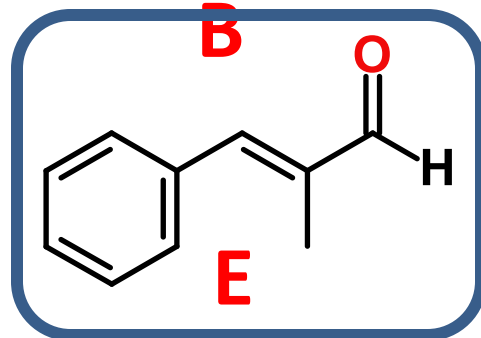
**B**



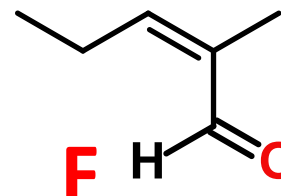
**C**



**D**



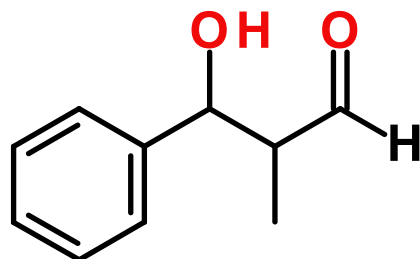
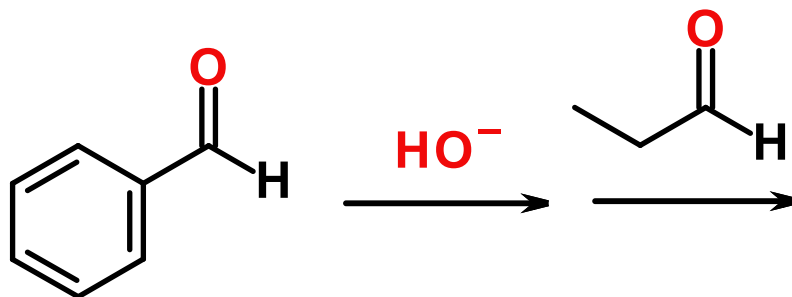
**E**



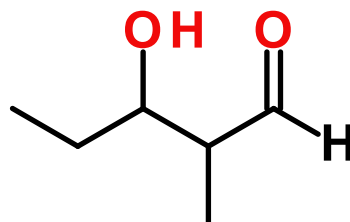
**F**

**G** - None of these products are a major product of the reaction that is shown.

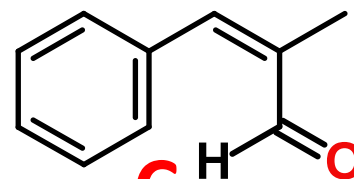
Give the minor organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b) **2016-10-28 Q3**



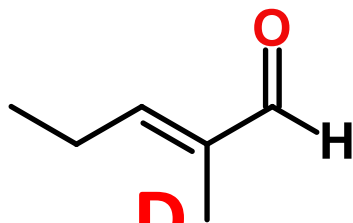
**A**



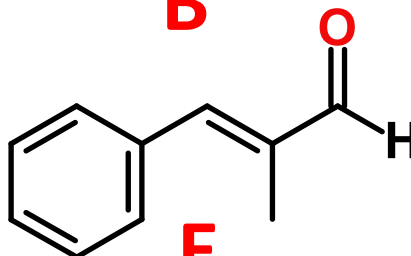
**B**



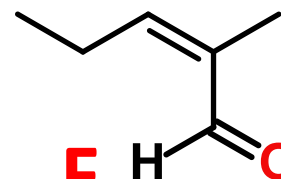
**C**



**D**



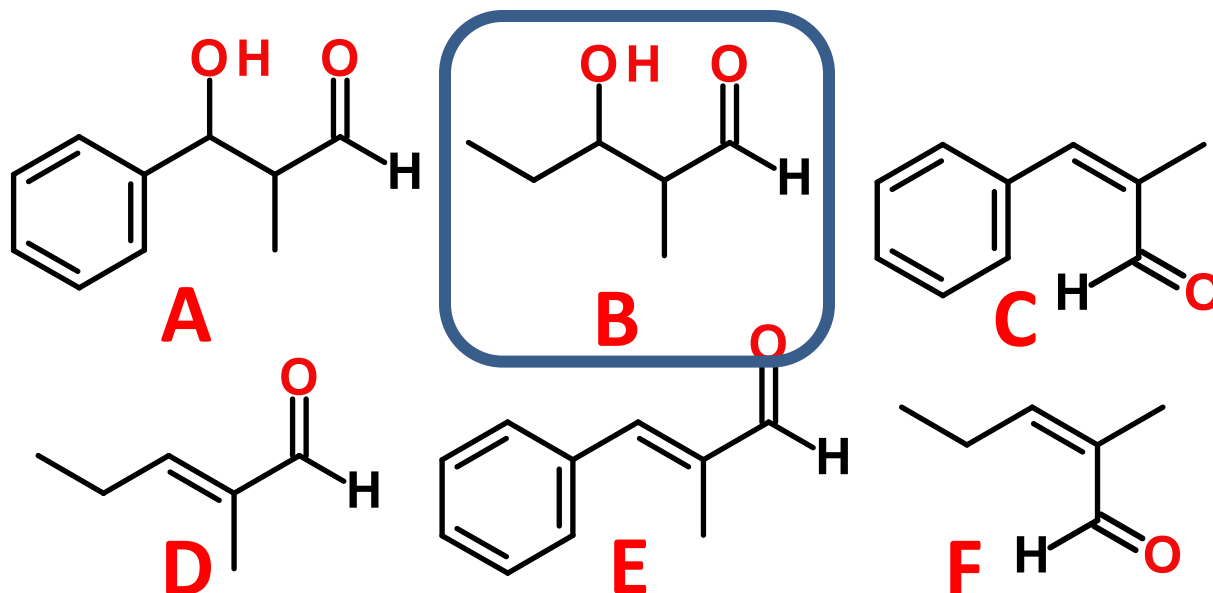
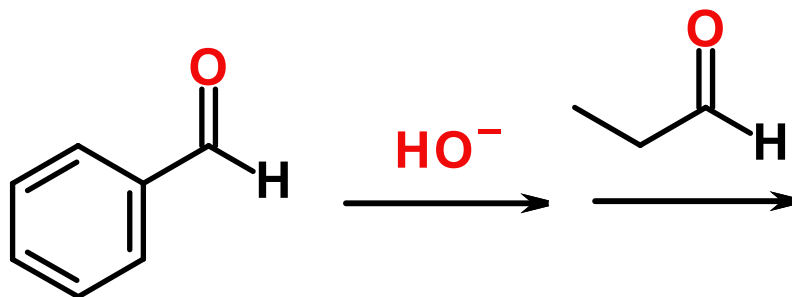
**E**



**F**

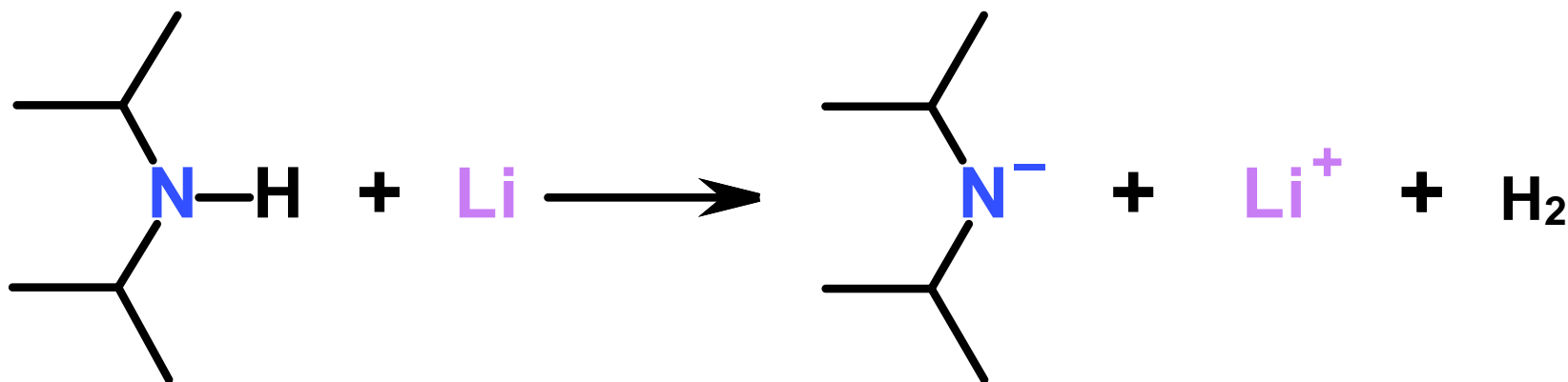
**G** - None of these products are a major product of the reaction that is shown.

Give the minor organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b) **2016-10-28 Q3**



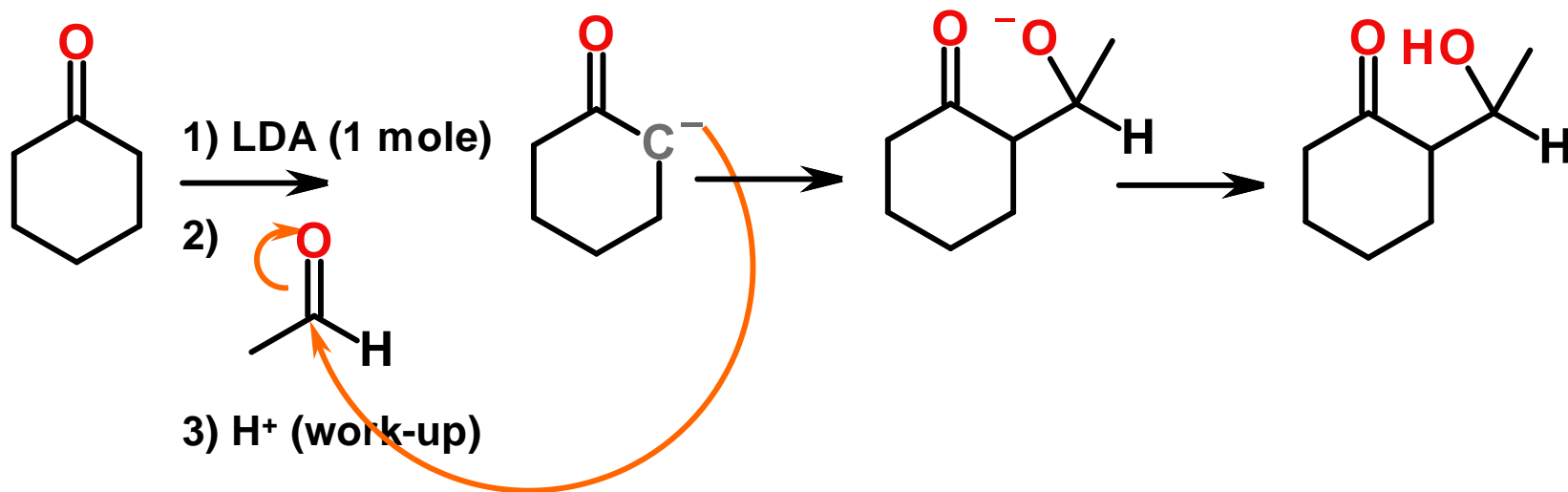
**G** - None of these products are a major product of the reaction that is shown.

# Lithium Di-isopropylamide (LDA)



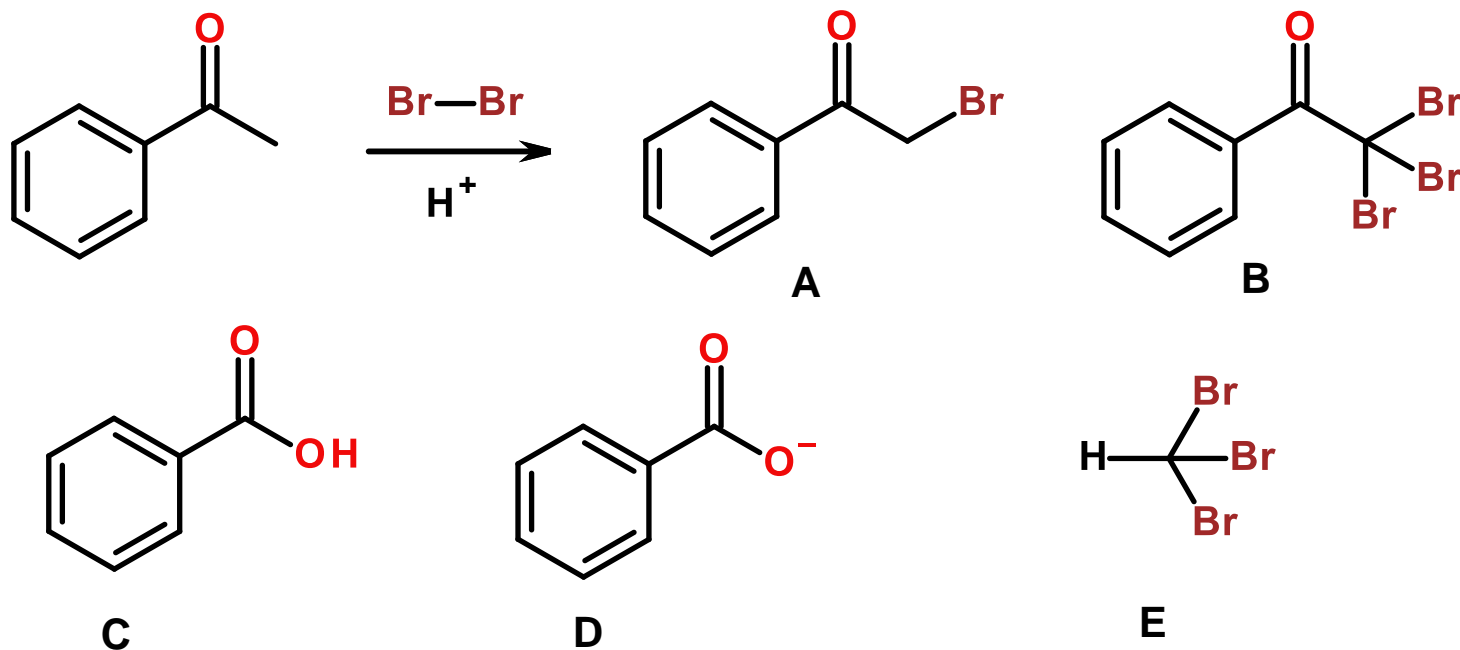
- A. Strong base (N<sup>-</sup> is not that happy, since N is not that electronegative and doesn't want a negative charge)
- B. Non-nucleophilic, b/c of steric hindrance of isopropyl groups

# LDA as a base for H's $\alpha$ to a carbonyl



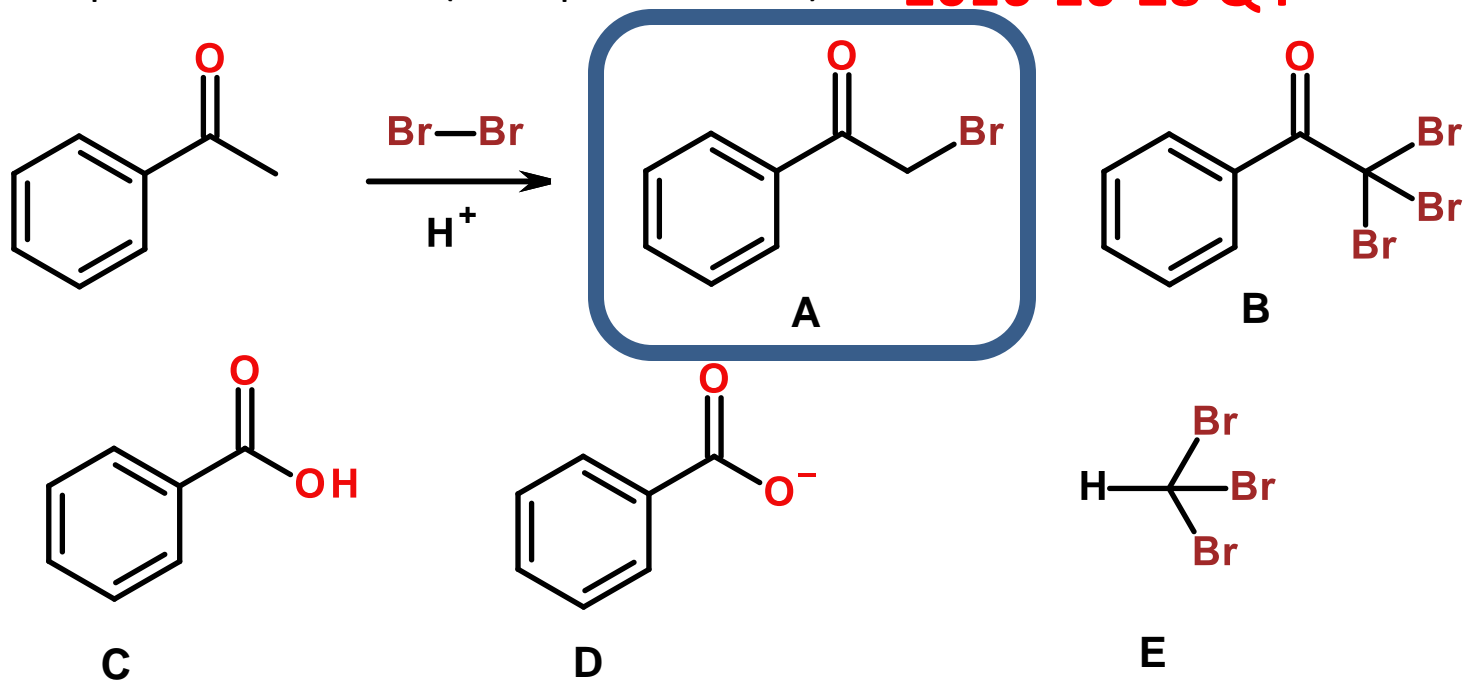


Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b) **2016-10-28 Q4**



F - None of these products are a major product of the reaction that is shown.

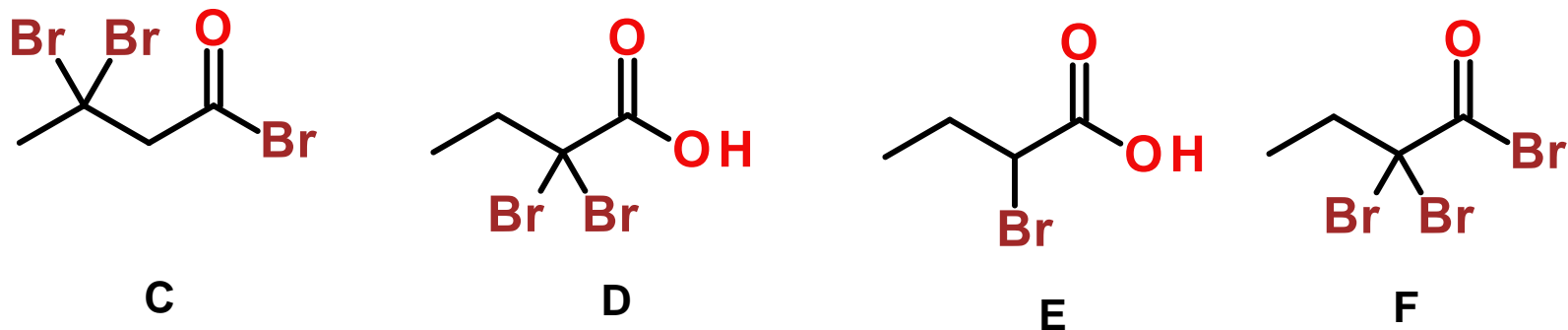
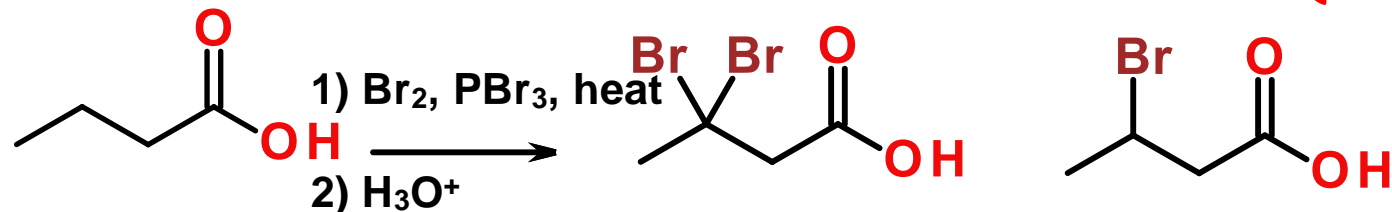
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b) **2016-10-28 Q4**



F - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)

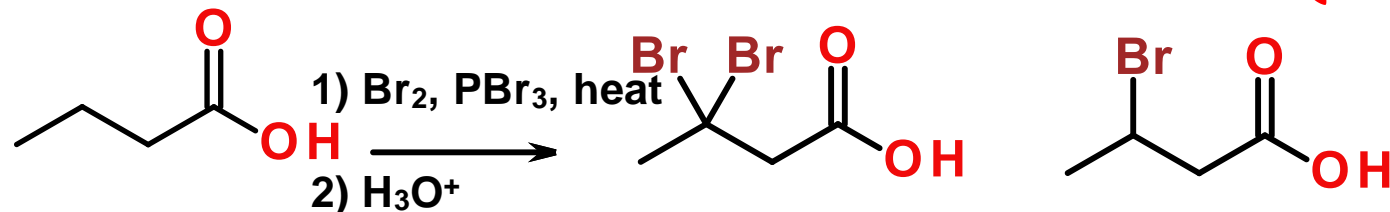
2016-10-28 Q5



G - None of these products are a major product of the reaction that is shown.

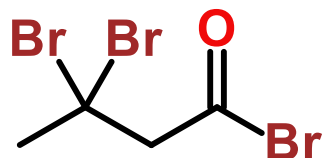
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)

2016-10-28 Q5

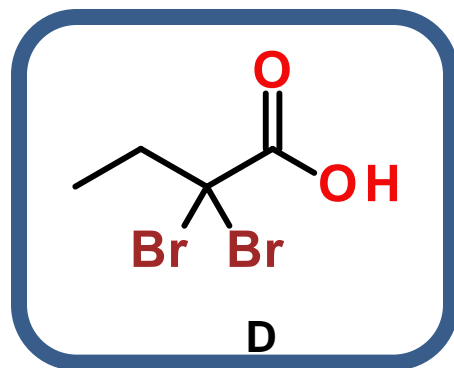


A

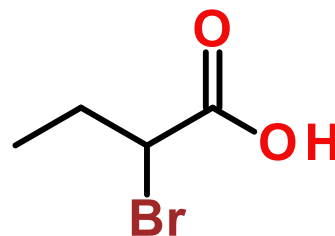
B



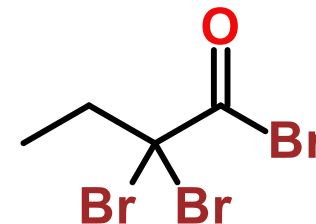
C



D



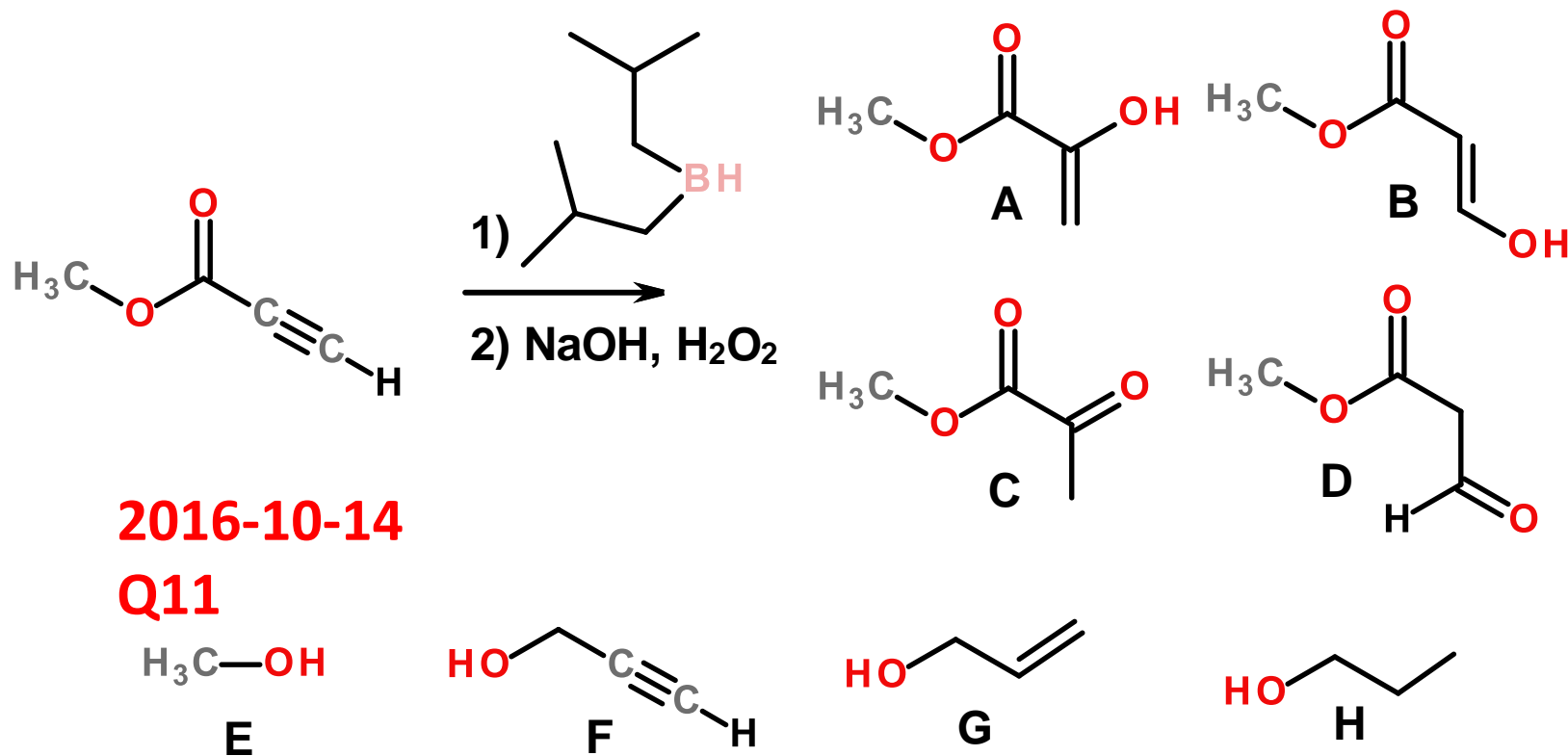
E



F

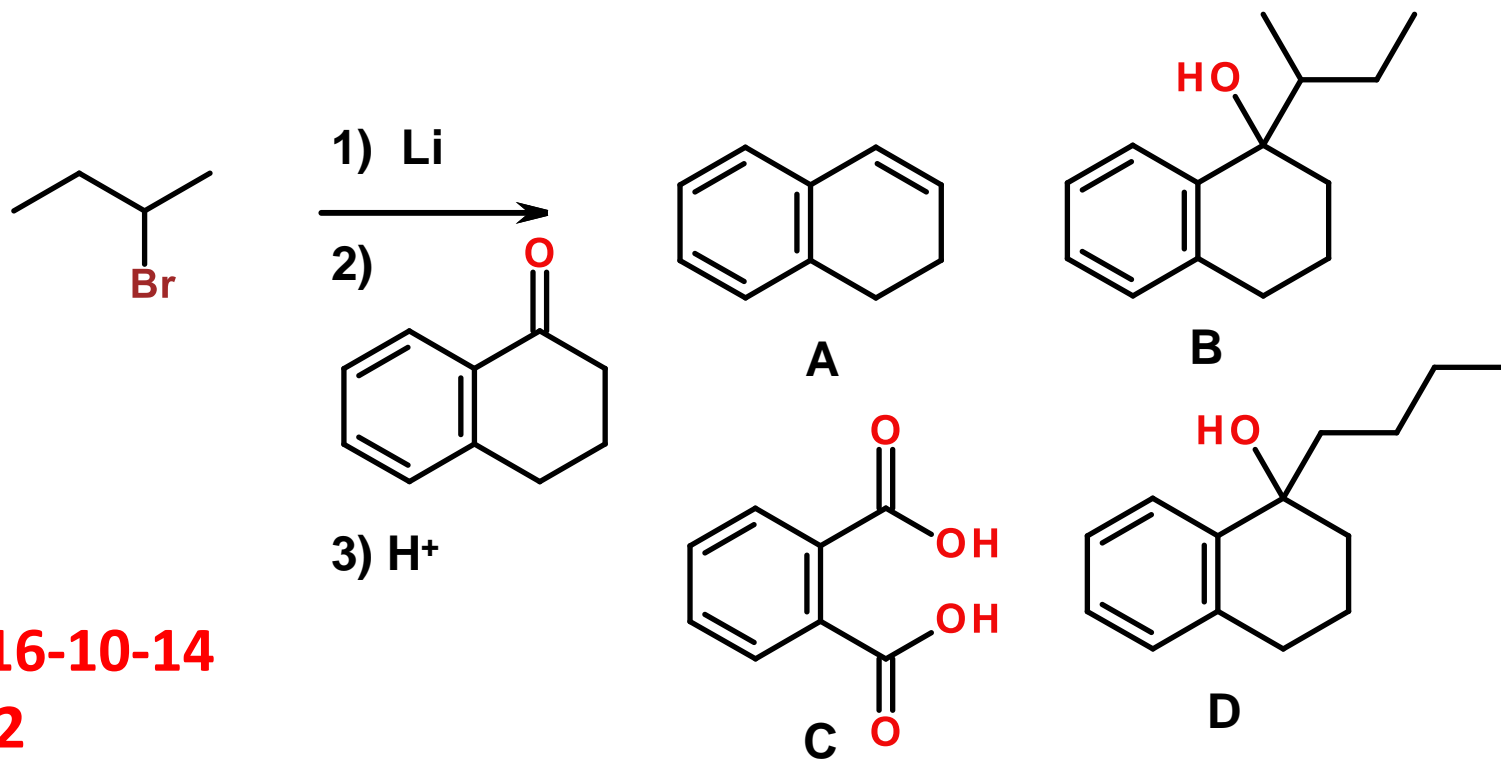
G - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)



I - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)

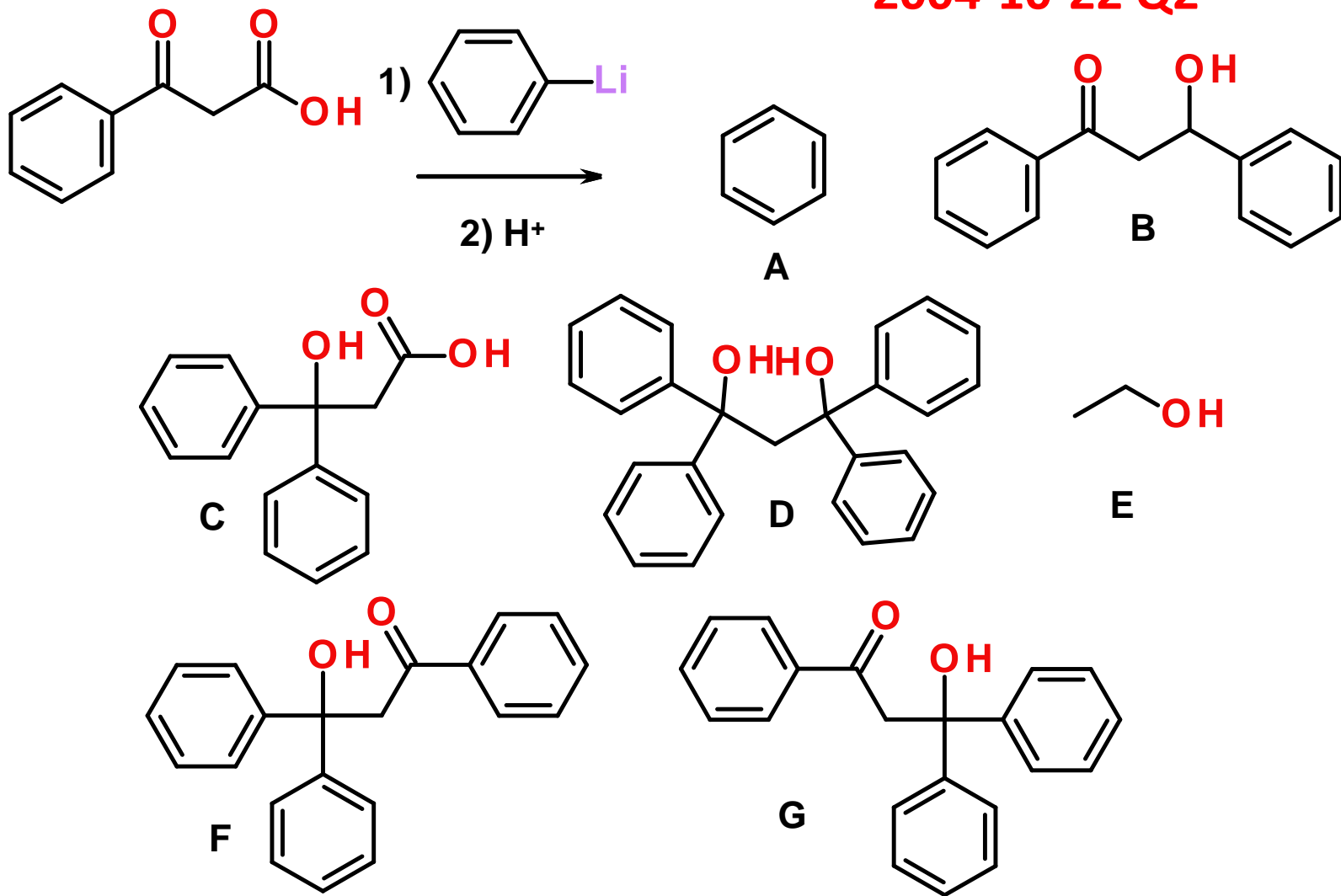


2016-10-14  
Q12

E - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)

2004-10-22 Q2



H - None of these products are a major product of the reaction that is shown.