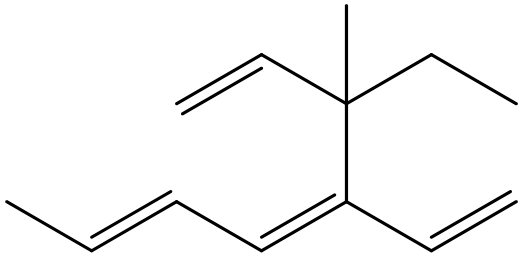
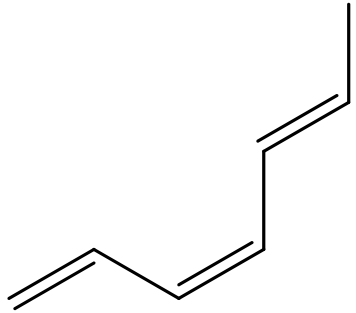
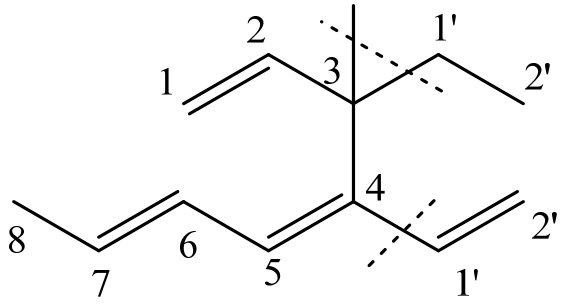
Provide an acceptable name for each of the following.

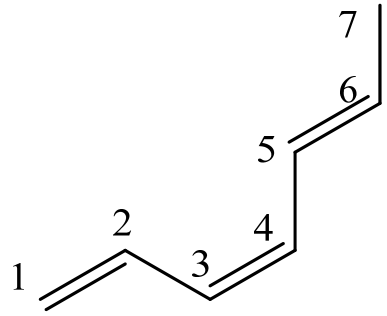






(4Z,6E)-3-ethyl-3-methyl-4-vinylocta-1,4,6-triene

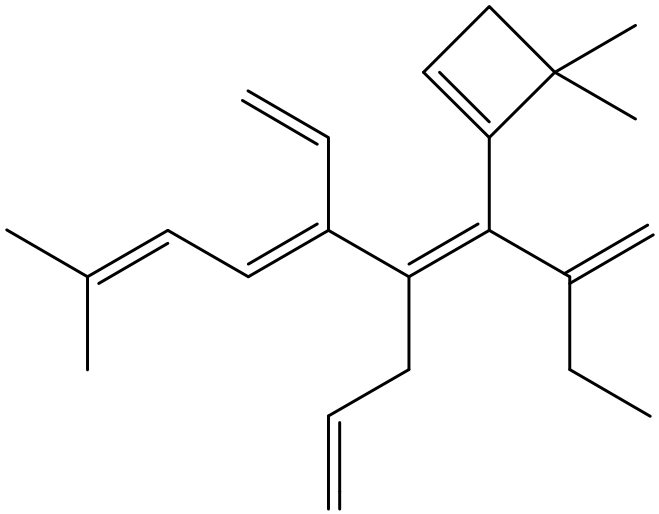
4-ethenyl-3-ethyl-3-methylocta-1,4Z,6E-triene

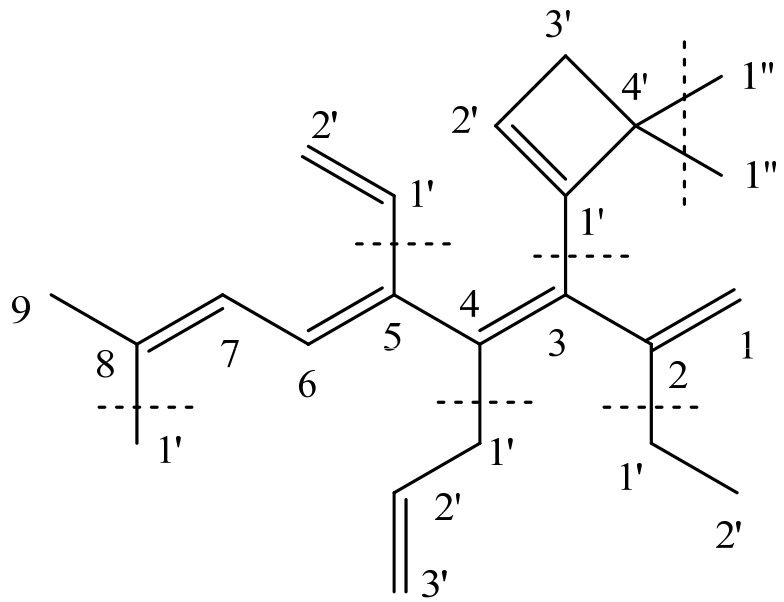


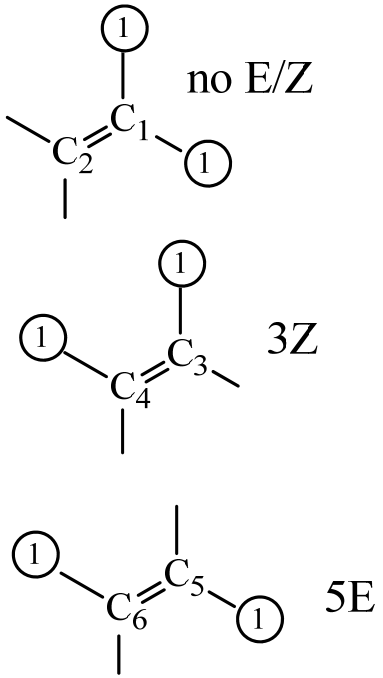
(3Z,5E)-hepta-1,3,5-triene

hepta-1,3Z,5E-triene

Provide an acceptable name for the following structure.







2-ethyl-3-(4,4-dimethylcyclobut-1-enyl)-4-(prop-2-enyl)-5-ethenyl-8-methylnona-1,3Z,5E,7-tetraene
-4-allyl -5-vinyl

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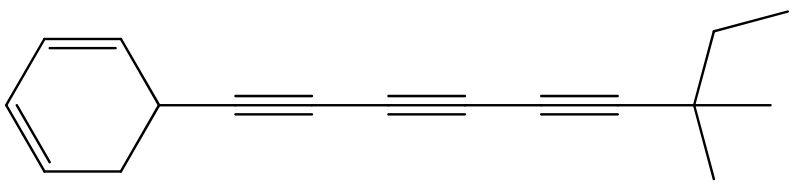
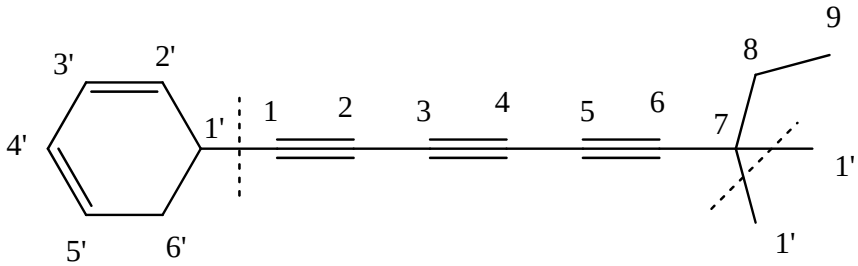
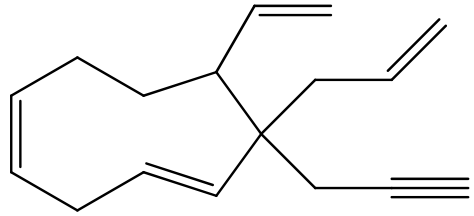
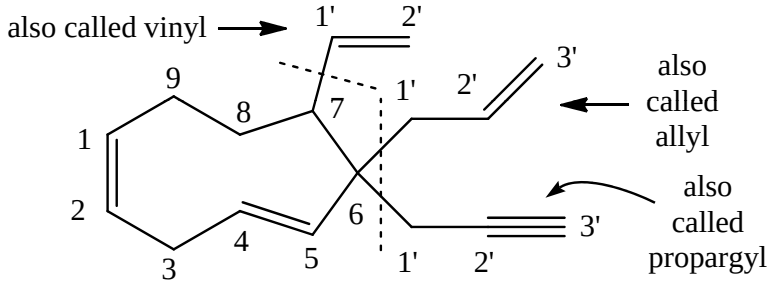
Provide an acceptable name for each of the following.





1-(cyclohexa-2,4-dienyl)-7,7-dimethylnona-1,3,5-triyne





7-ethenyl-6-(prop-2-enyl)-6-(prop-2-ynyl)cyclonona-1Z,4E-diene

6-allyl-6-propargyl-7-vinylcyclonona-1Z,4E-diene

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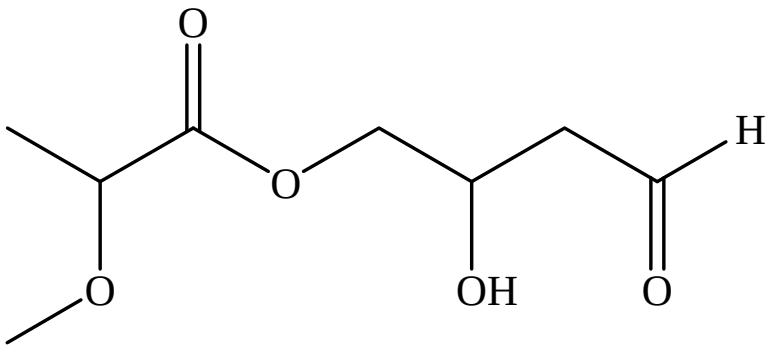
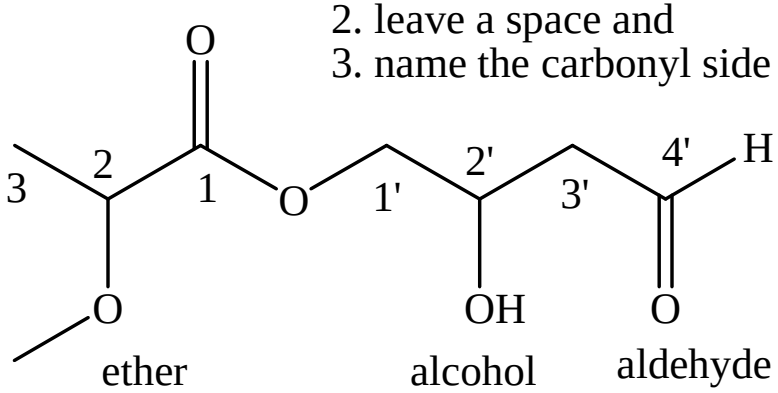
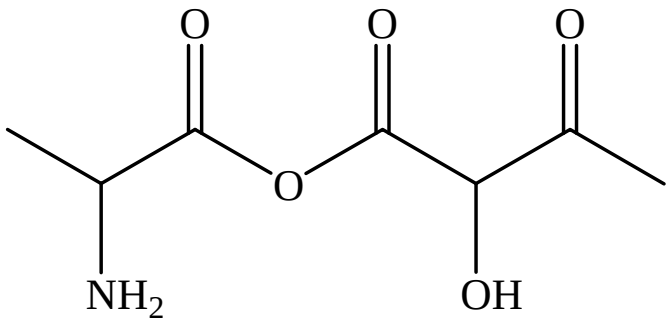
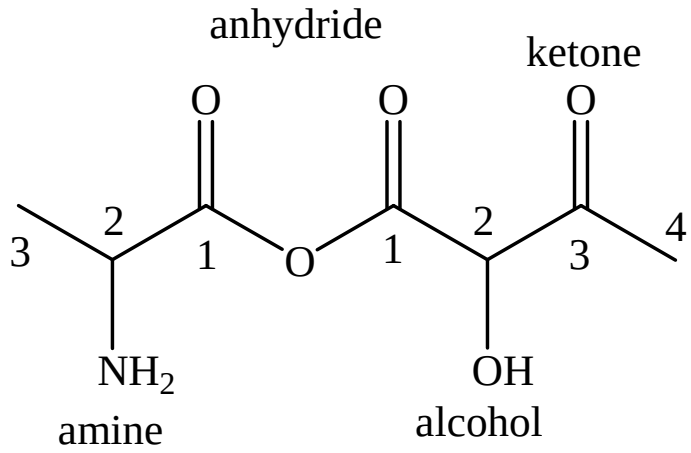


ester = 2 chains to name,
1. name branch on oxygen first,
2. leave a space and
3. name the carbonyl side with suffix



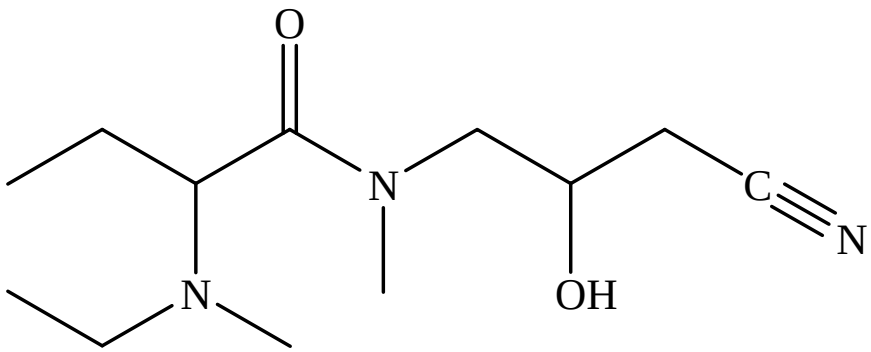
2-hydroxy-4-oxobutyl 2-methoxypropanoate





anhydride = 2 chains to name,
1. name both chains with the "-oic" suffix,
2. leave a space between them and "anhydride"
3. if they are identical, can just use one name

2-hydroxy-3-oxobutanoic 2-aminopropanoic anhydride



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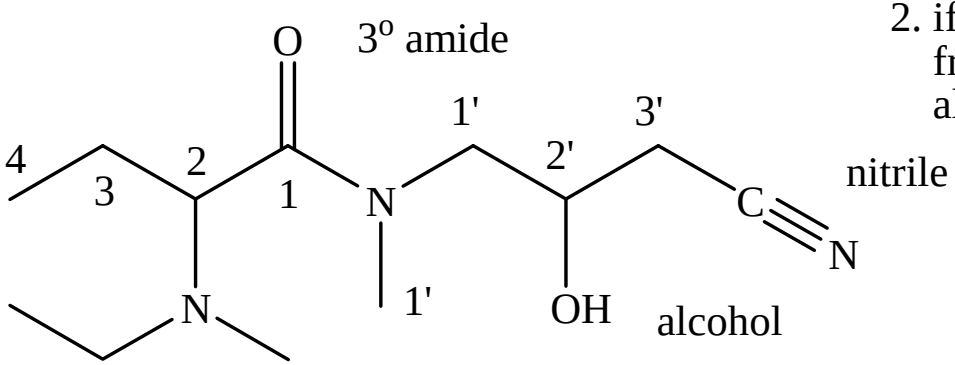
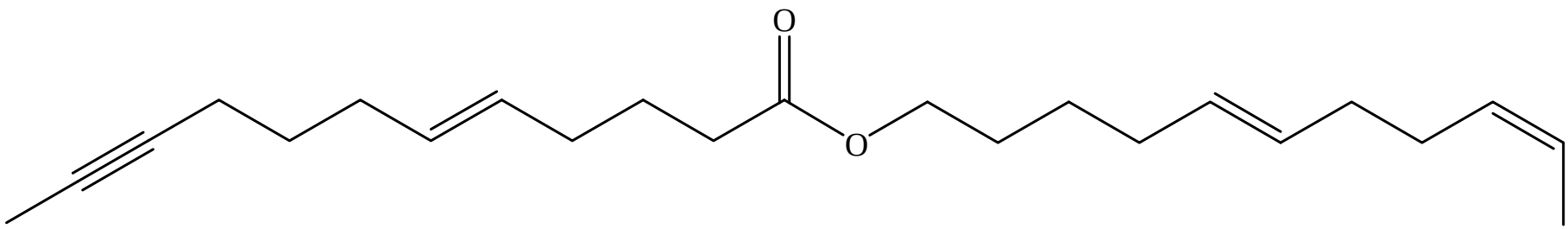
amides can have 1, 2 or 3 chains to name,
1. name the chain with C=O using the suffix "amide",
2. if the nitrogen atom has "alkyl" chains use "N-" in front of each chain and name in the usual way for alkyl chains

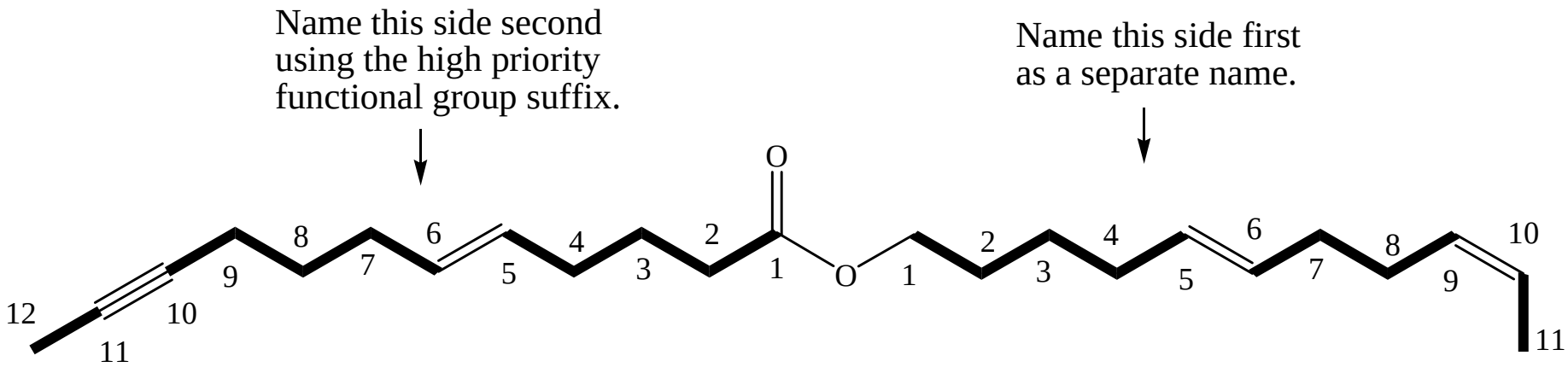


N-(2-hydroxy-3-cyanopropyl)-N-methyl-2-(N-ethyl-N-methylamino)butanamide

---

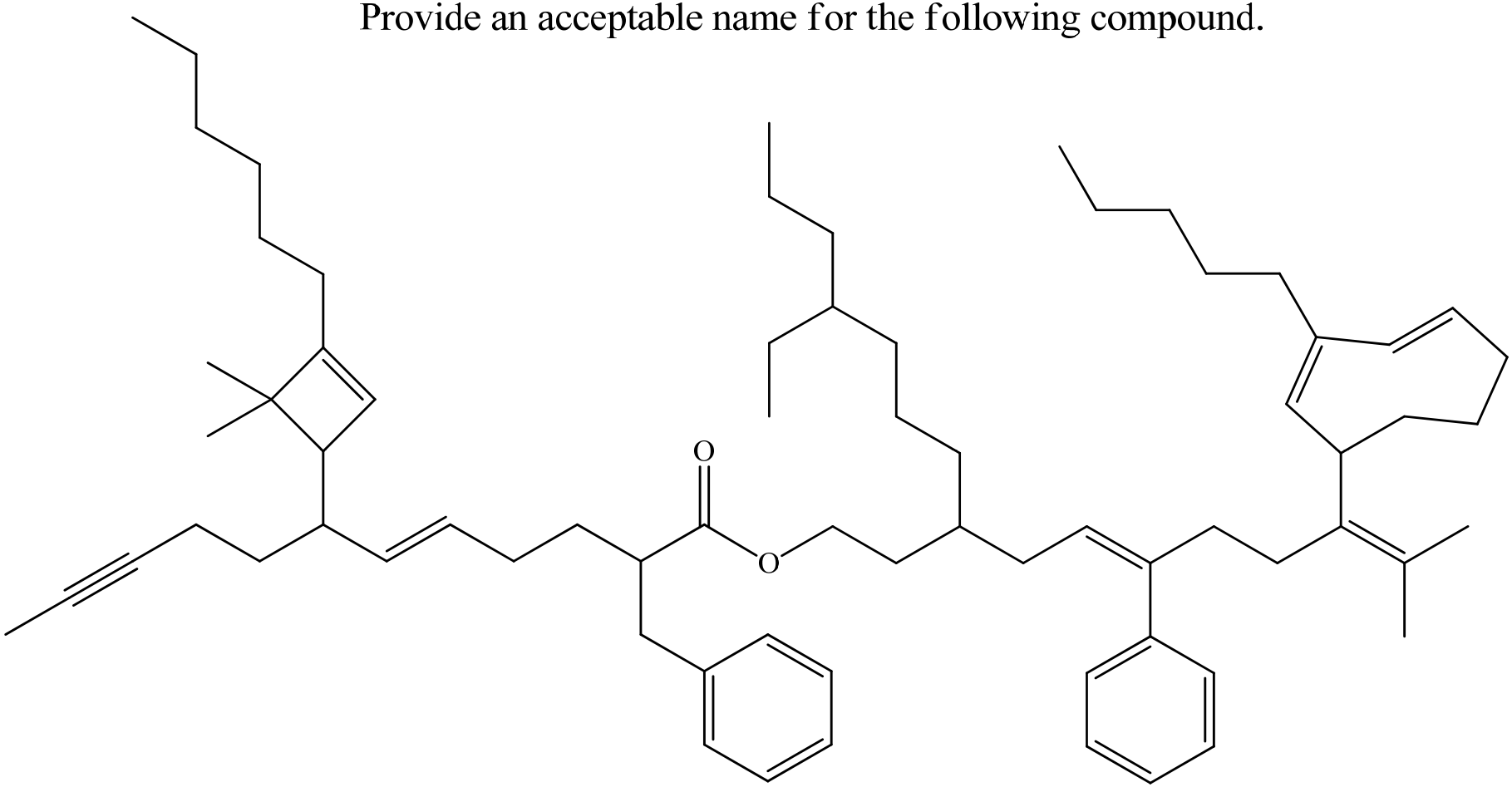
Provide an acceptable name for the following compound.

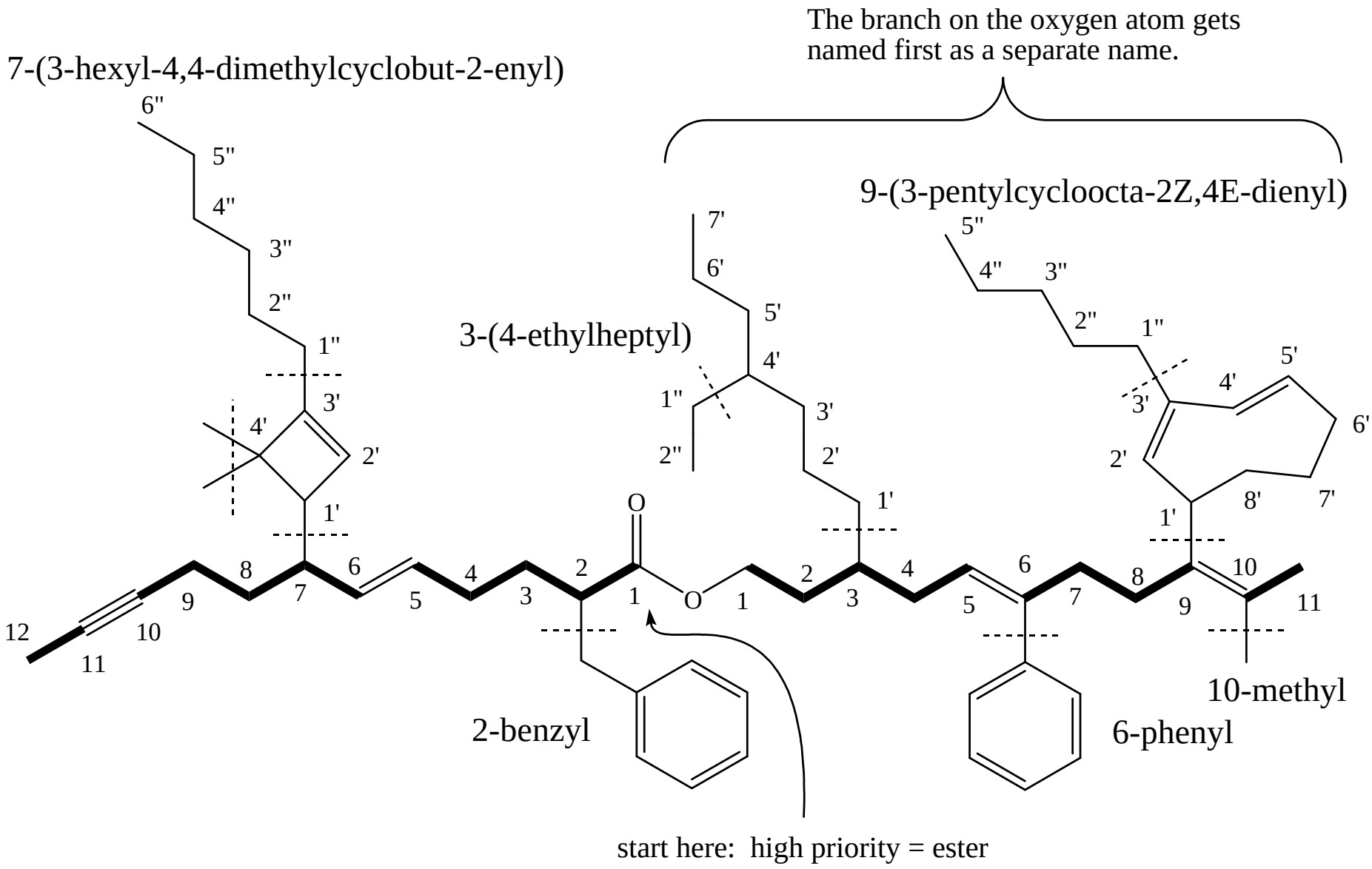




undeca-5E,9Z-dienyl dodec-5E-en-10-ynoate

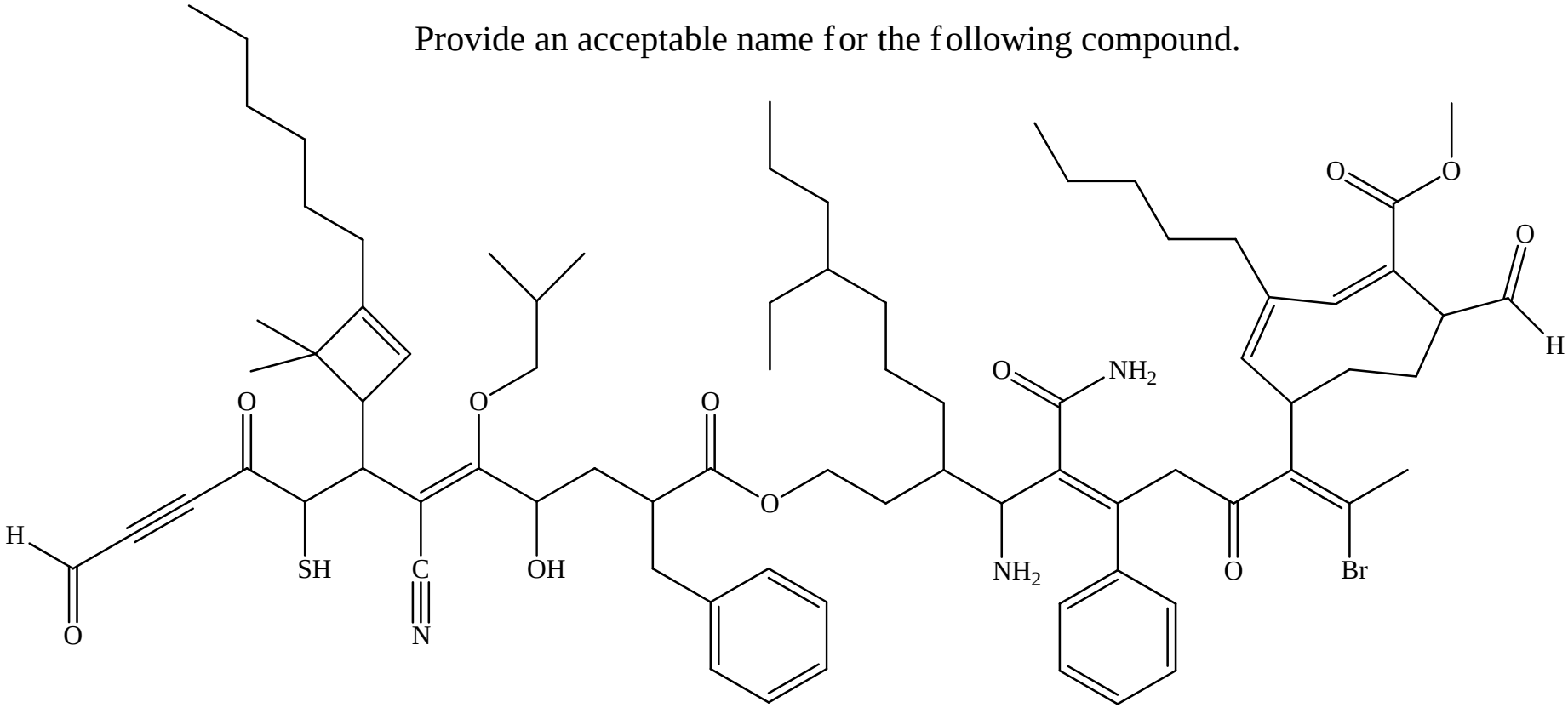
Provide an acceptable name for the following compound.

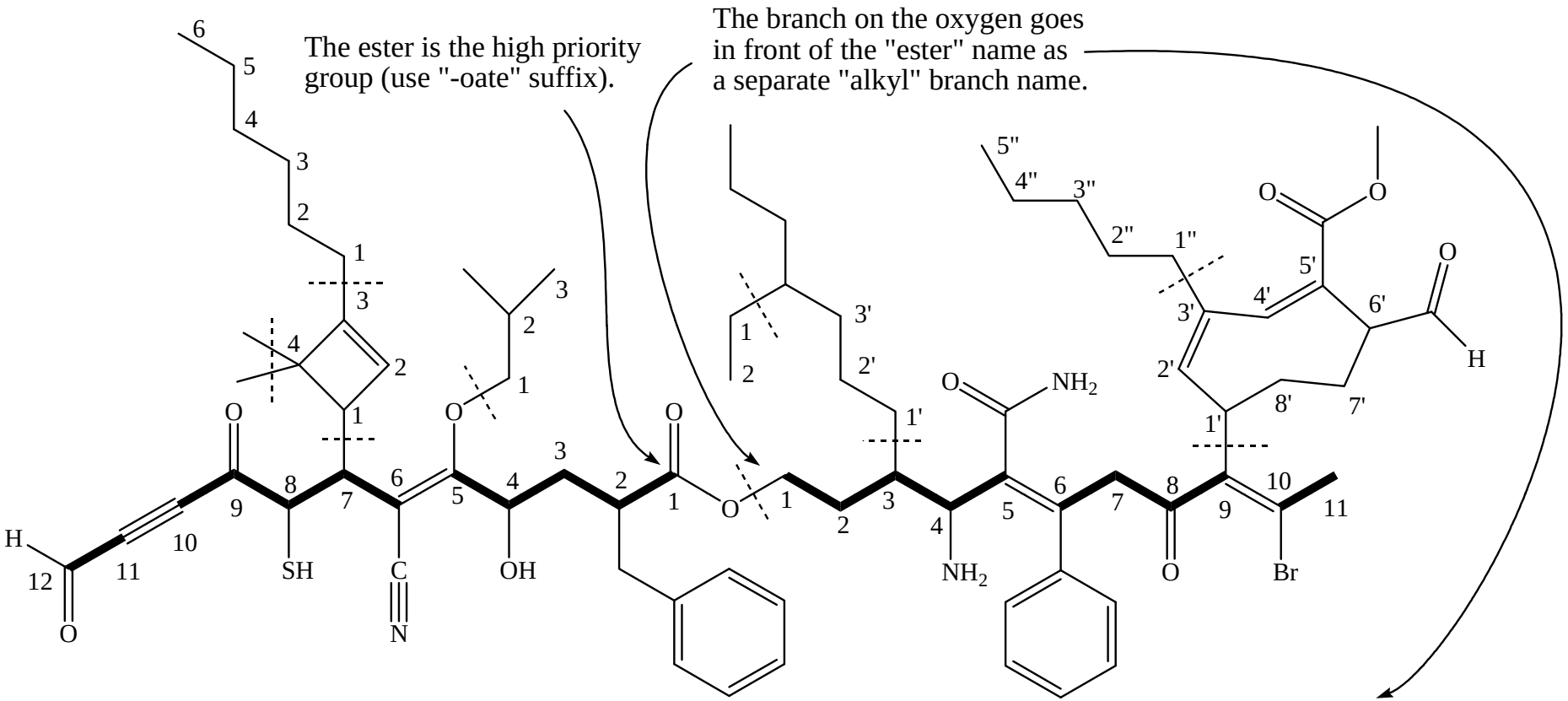




3-(4-ethylheptyl)-6-phenyl-9-(3-pentylcycloocta-2Z,4E-dienyl)undeca-5Z,9-dienyl 2-benzyl-7-(3-hexyl-4,4-dimethylcyclobut-2-enyl)dodec-5E-en-10-ynoate

Provide an acceptable name for the following compound.





3-(4-ethylheptyl)-4-amino-5-amido-6-phenyl-8-oxo-9-(3-pentyl-5-methoxycarbonyl-6-formylcycloocta-2Z,4E-dienyl)-10-bromoundeca-5E,9Z-dienyl 2-benzyl-4-hydroxy-5-(2-methylpropoxy)-6-cyano-7-(3-hexyl-4,4-dimethylcyclobut-2-enyl)-8-mercapto-9,12-dioxododec-5E-en-10-ynoate

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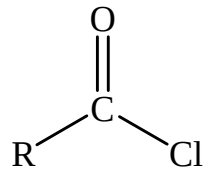
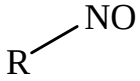
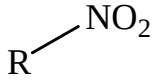
Other high and low priority functional groups that are missing.



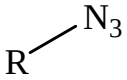
acid chloride
#-chlorocarbonyl



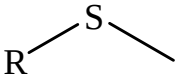
nitroso
#-nitroso



nitro
#-nitro

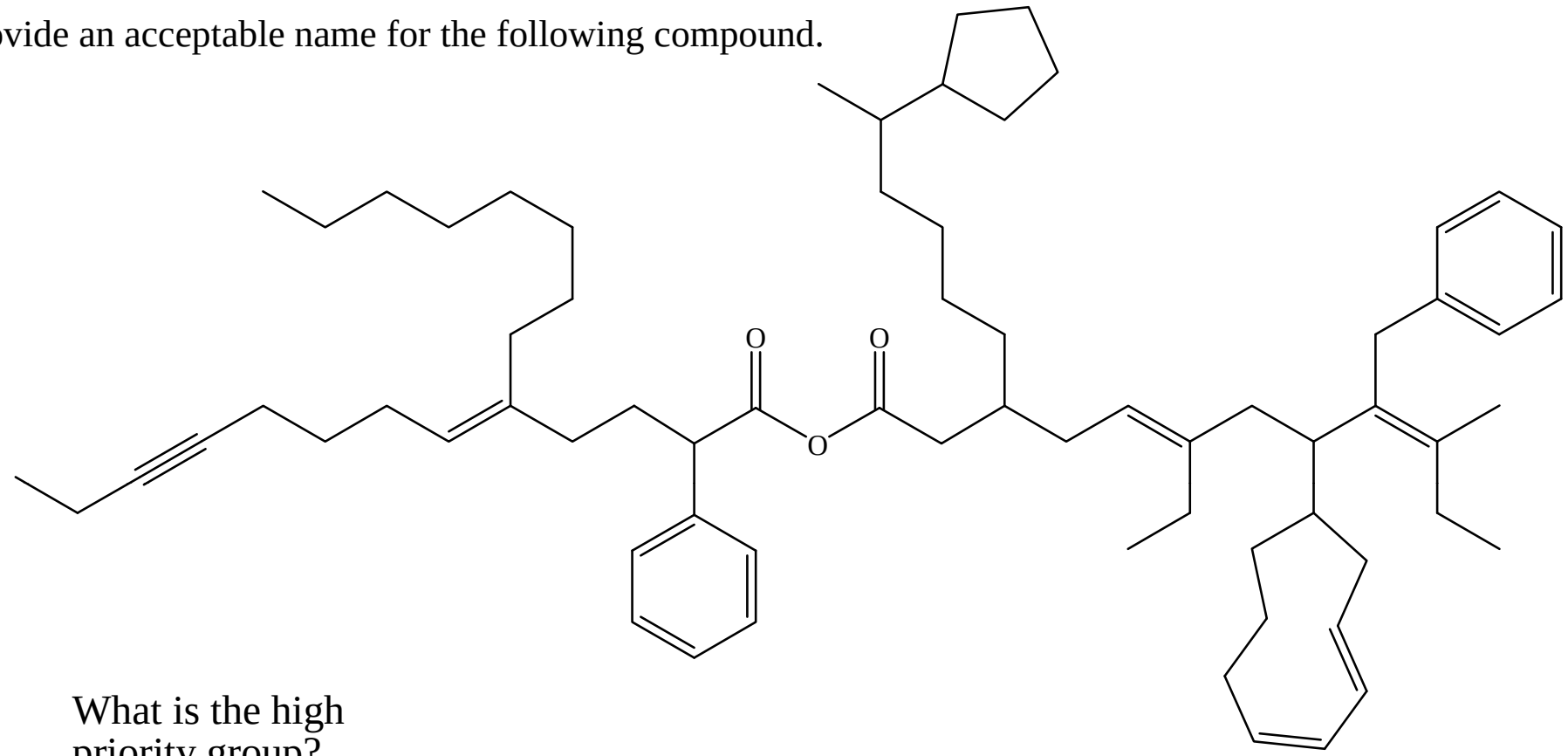


azide
#-azido



sulfide
#-methylthio

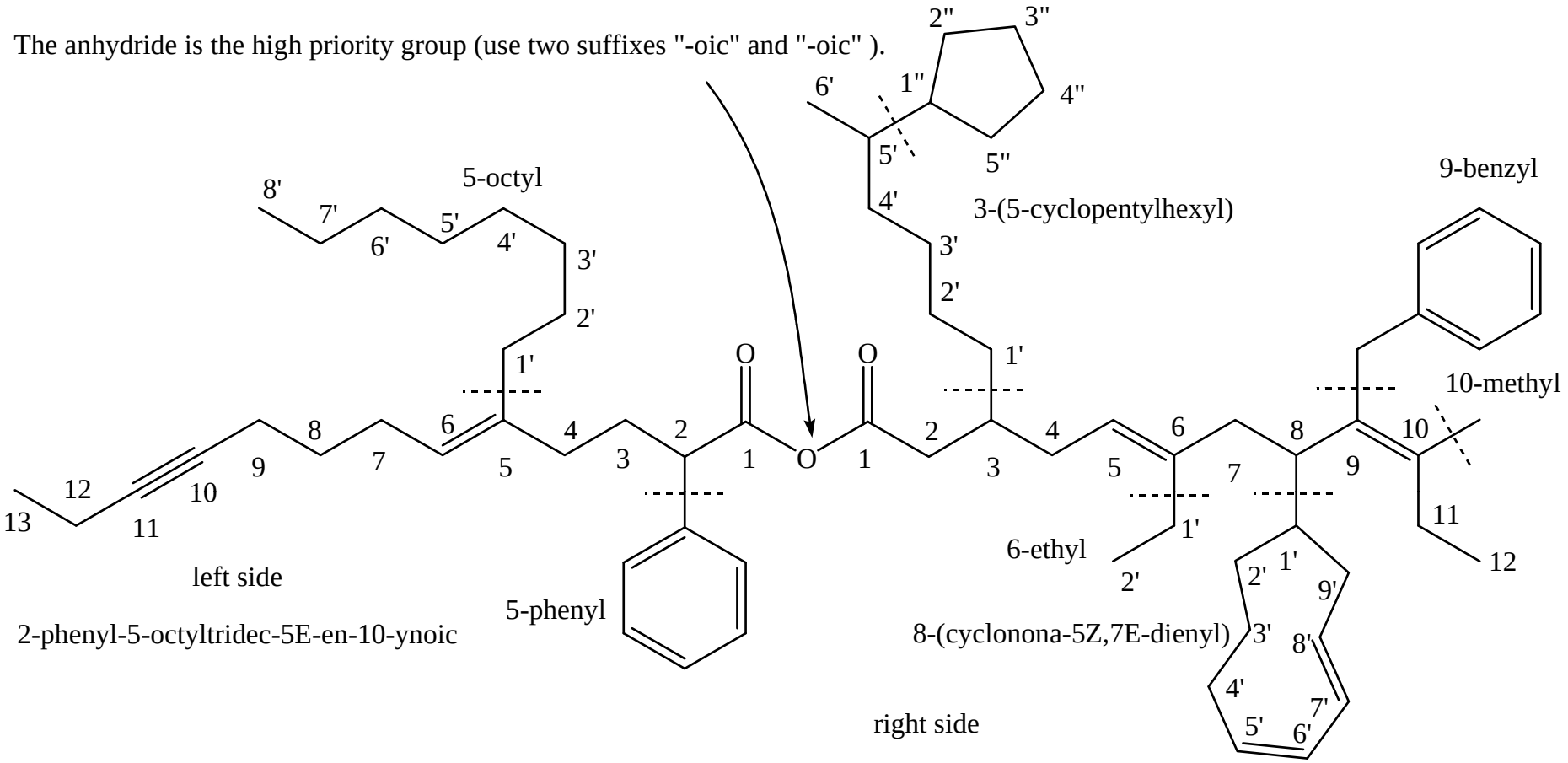
Provide an acceptable name for the following compound.



What is the high priority group?

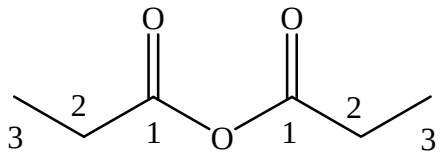
a. acid
b. amide
c. aldehyde
d. ester
e. N.C.A.

The anhydride is the high priority group (use two suffixes "-oic" and "-oic").



2-phenyl-5-octyltridec-5E-en-10-ynoic 3-(5-cyclopentylhexyl)-6-ethyl-8-(cyclonona-5Z,7E-dienyl)-9-benzyl-1-methyldodeca-5E,9Z-dienoic anhydride

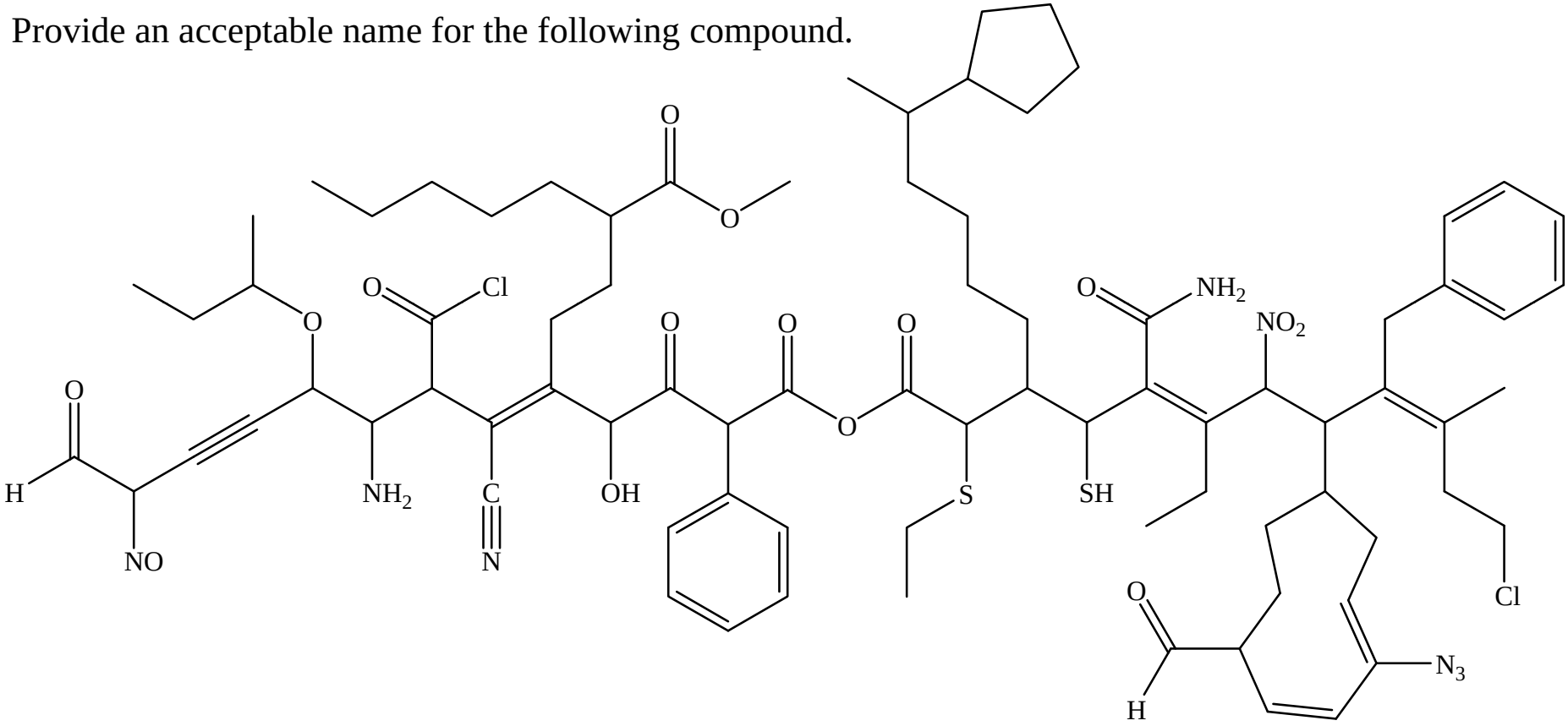
separate words,
both end in "-oic"



propanoic anhydride

If both sides are the same, just use one name followed by anhydride.

Provide an acceptable name for the following compound.



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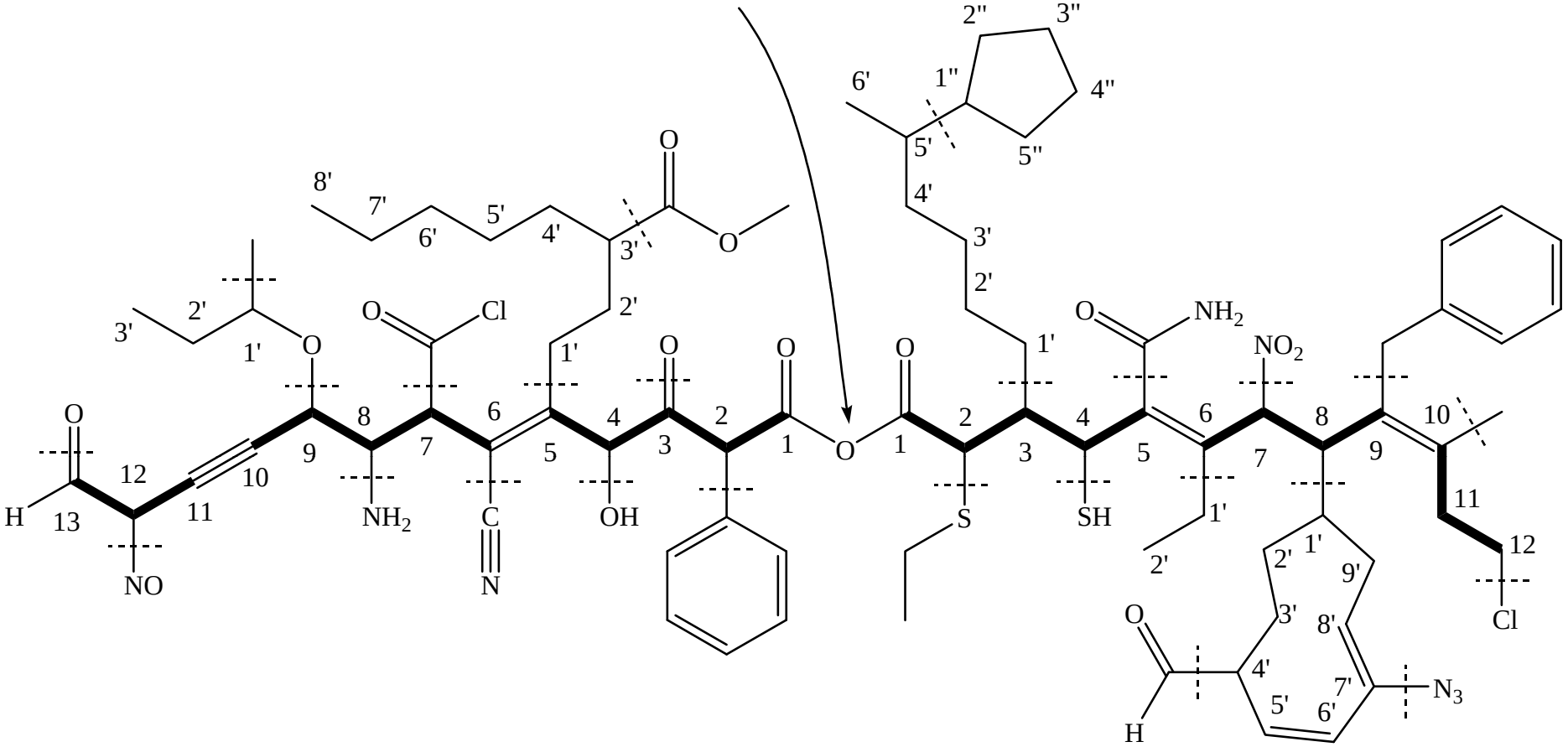
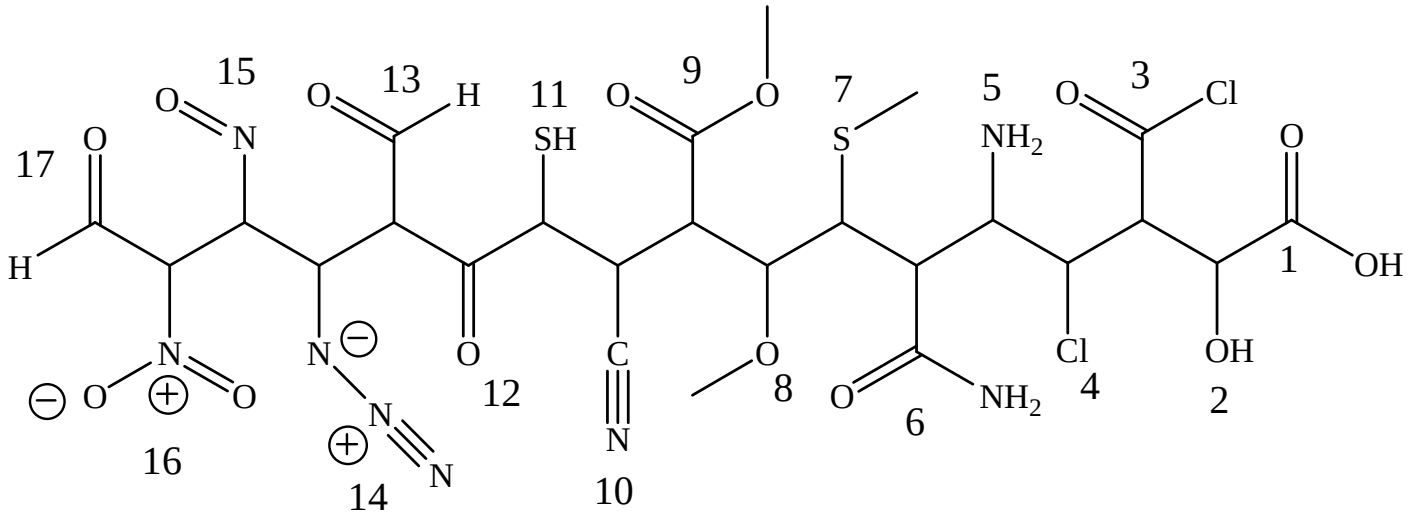
The anhydride is the high priority group (use two suffixes "-oic" and "-oic").



2-phenyl-3,13-dioxo-4-hydroxy-5-(3-methoxycarbonyloctyl)-6-cyano-7-chlorocarbonyl-8-amino-9-(1-methylpropoxy)-12-nitrosotridec-5Z-en-10-ynoic 2-ethylthio-3-(5-cyclopentylhexyl)-4-mercapto-5-amido-6-ethyl-7-nitro-8-(4-formylcyclonona-7-azido-5Z,7E-dienyl)-9-benzyl-11-methyl-12-chlorododeca-5E,9Z-dienoic anhydride

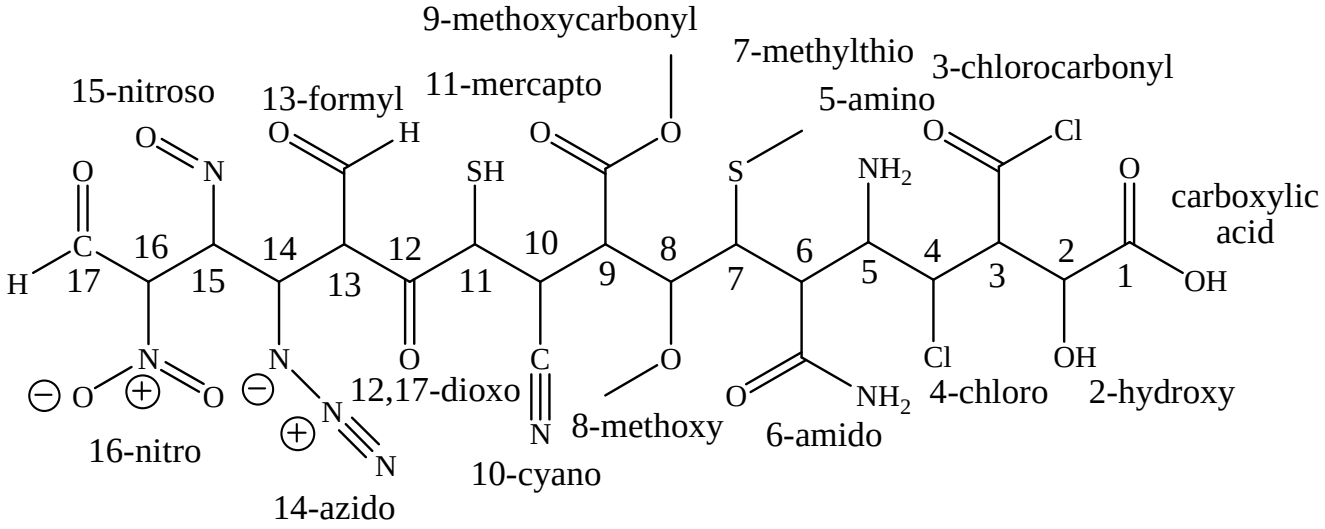


What is the prefix name for substituent #____?

a. oxo
b. methoxycarbonyl
c. amido
d. chlorocarbonyl
e. no correct answer

What is the prefix name for substituent #____?

a. carboxylic acid
b. methoxy
c. amino
d. formyl
e. cyano



2-hydroxy-3-chlorocarbonyl-4-chloro-5-amino-6-amido-7-methylthio-8-methoxy-9-methoxycarbonyl-10-cyano-11-mercapto-12,17-dioxo-13-formyl-14-azido-15-nitroso-16-nitroheptadecanoic acid

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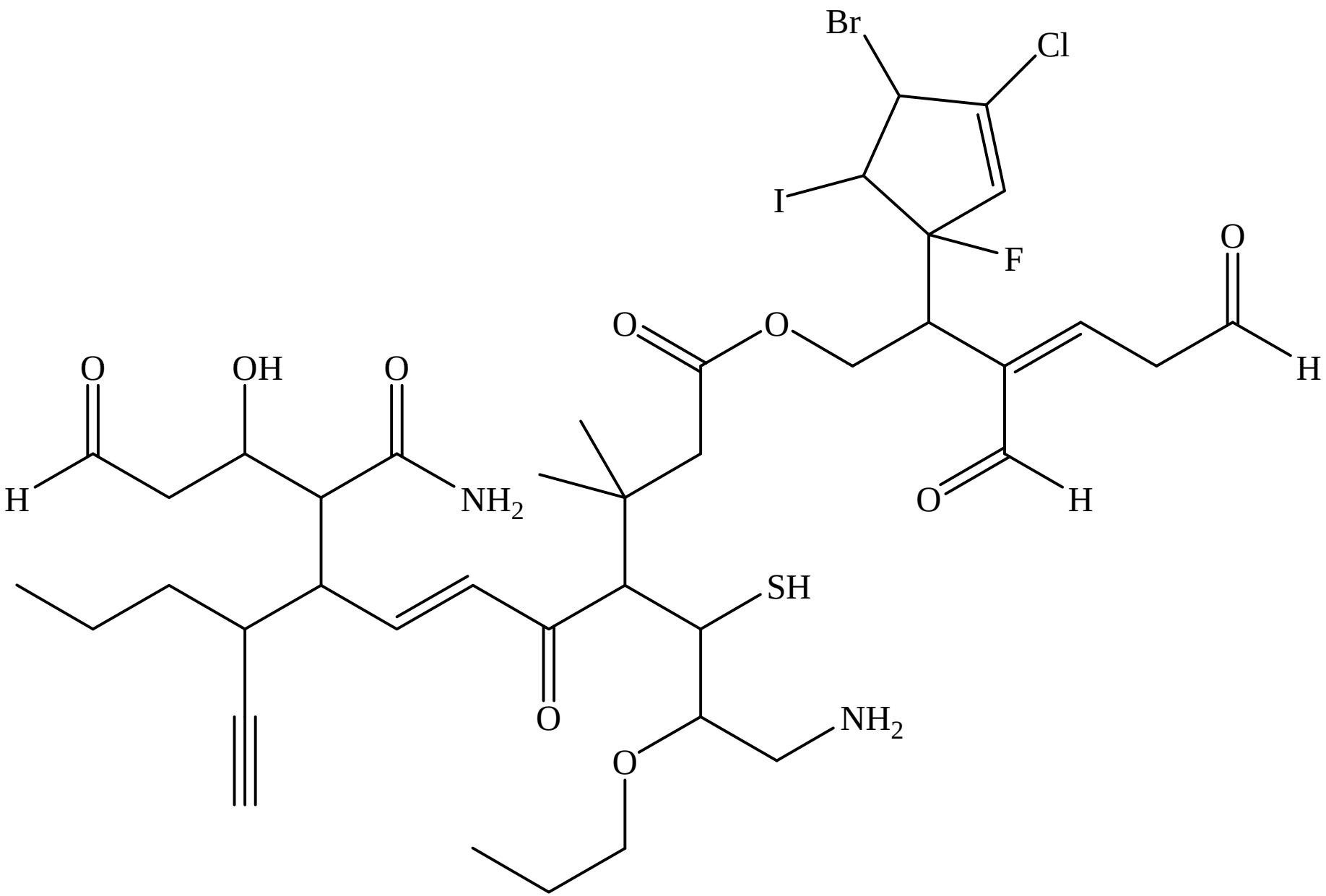
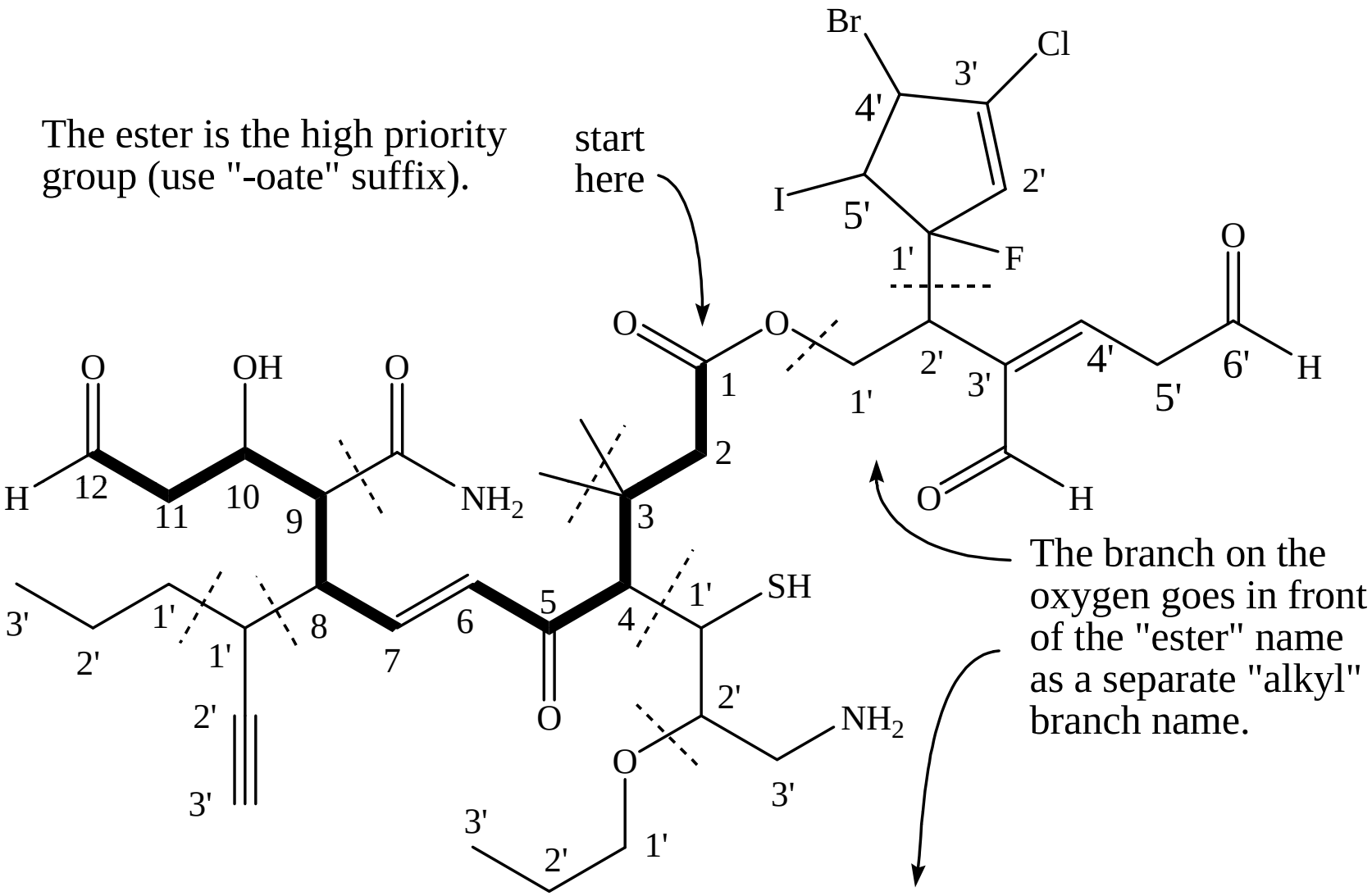

Br
Cl
I
F
O
O
O
H
O
OH
O
H
NH2
O
H
SH
O
NH2
O



2-(1-fluoro-3-chloro-4-bromo-5-iodocyclopent-2-enyl)-3-formyl-6-oxohex-3Z-enyl

3,3-dimethyl-4-(1-mercapto-2-propoxy-3-aminopropyl)-5,12-dioxo-

8-(1-propylprop-2-ynyl)-9-amido-10-hydroxydodec-6E-enoate