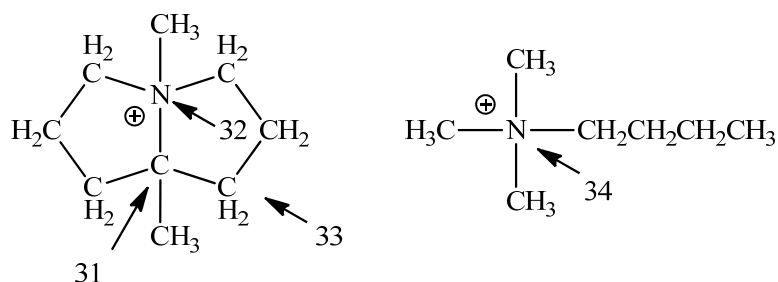
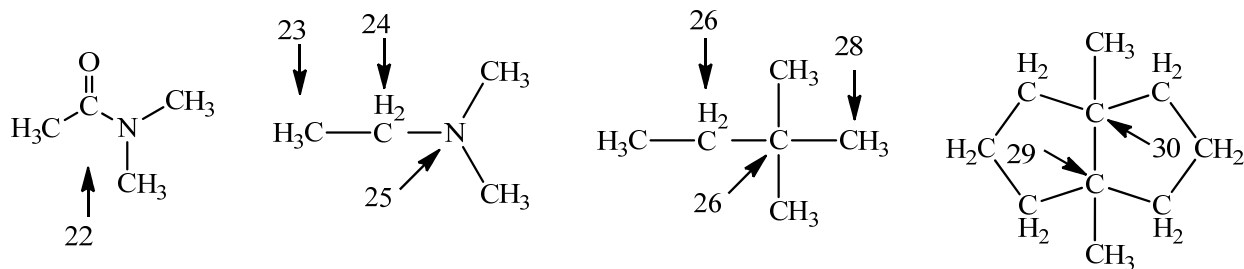
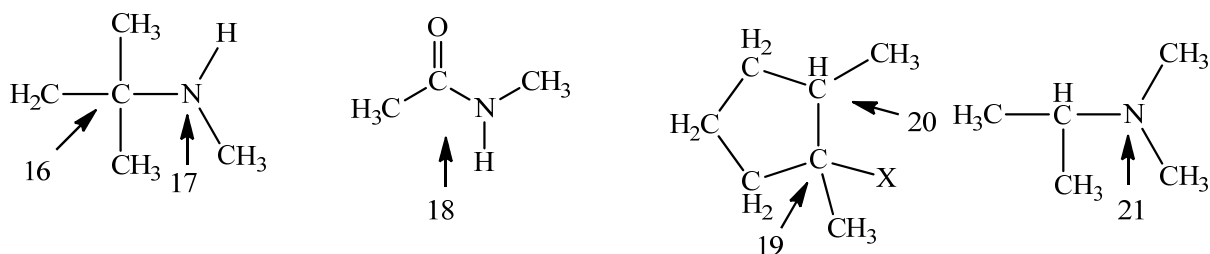
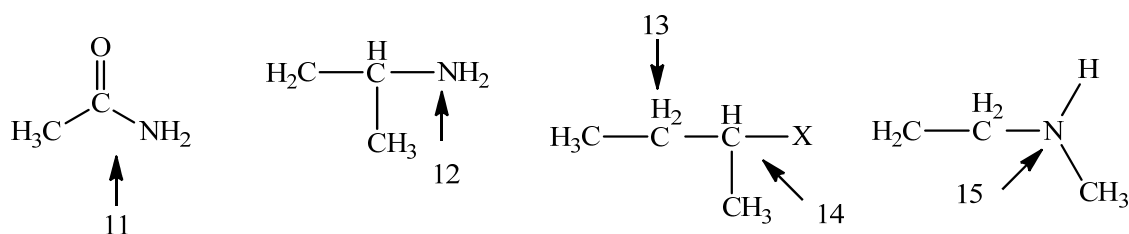
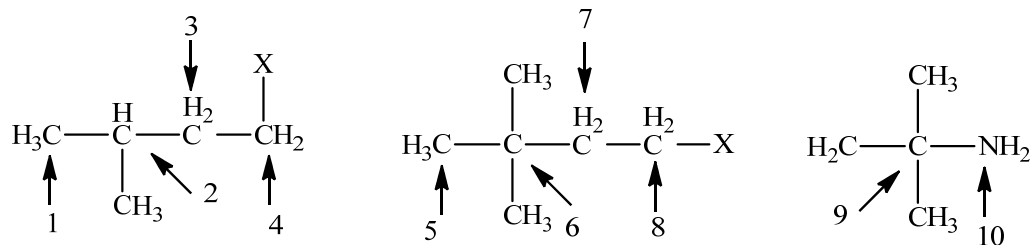
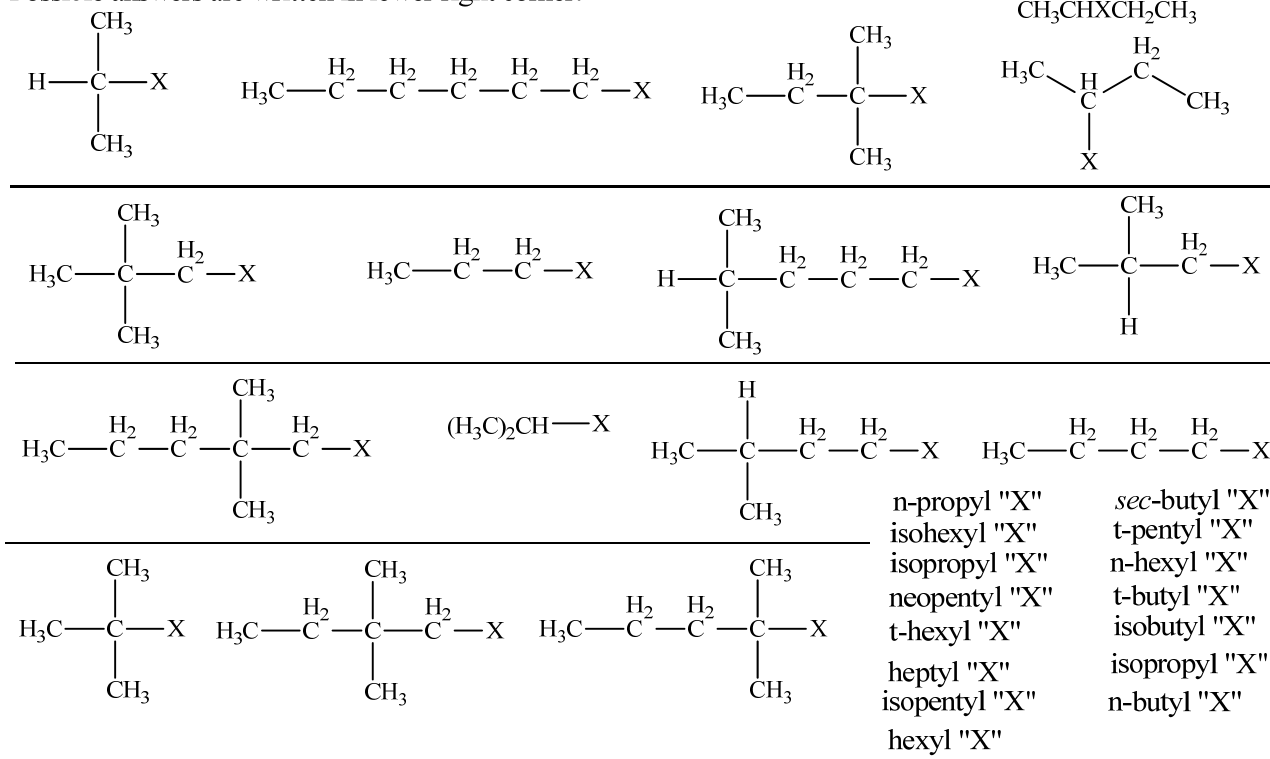


**Special terms to identify "parts" of organic structures.**

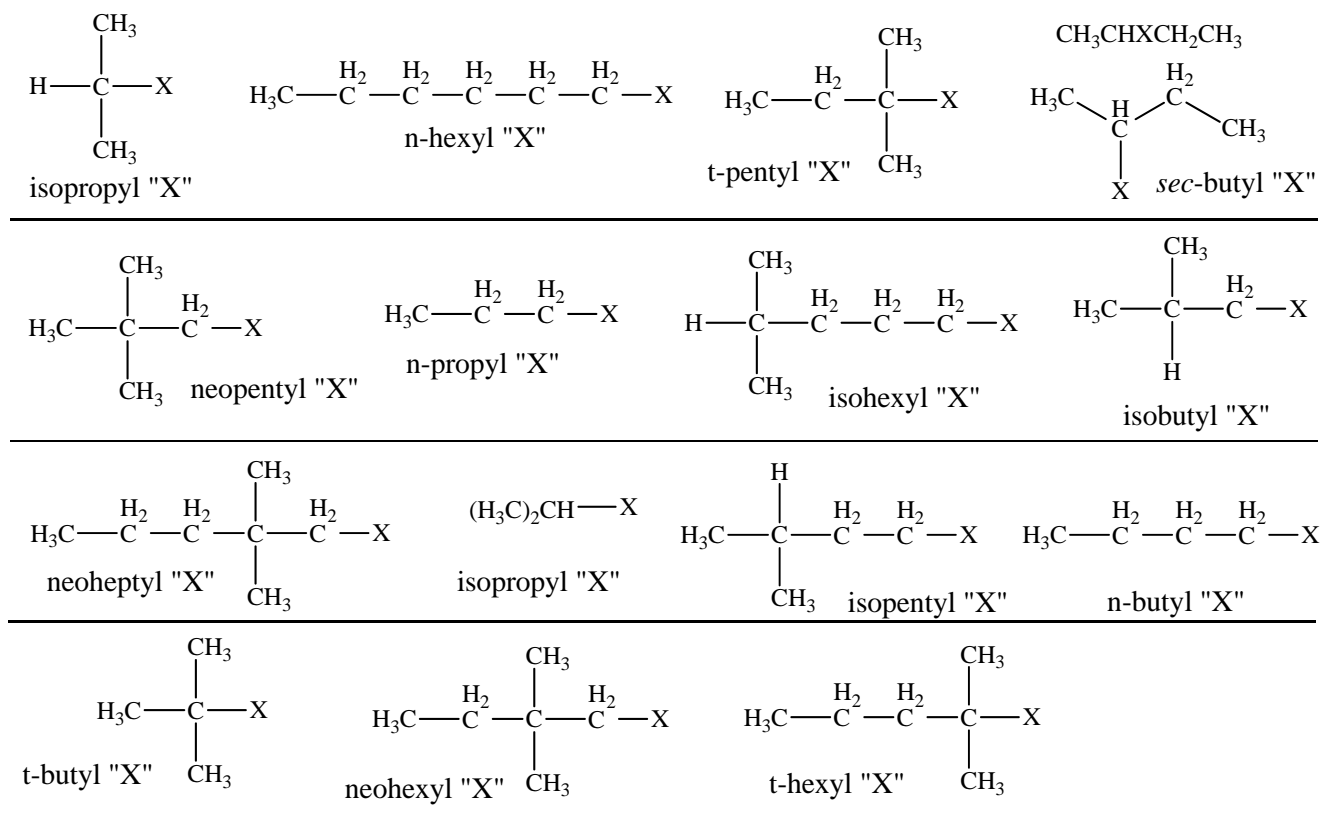
Possible answers.

- |                            |                      |
|----------------------------|----------------------|
| 1. primary carbon          | = 1,4,5,8,23,28      |
| 2. secondary carbon        | = 3,7,13,14,24,26,33 |
| 3. tertiary carbon         | = 2,9,16,20,19       |
| 4. quaternary carbon       | = 6,26,29,30         |
| 5. primary amine           | = 10,12              |
| 6. secondary amine         | = 15,17              |
| 7. tertiary amine          | = 21,25              |
| 8. quaternary ammonium ion | = 32,34              |
| 9. primary amide           | = 11                 |
| 10. secondary amide        | = 18                 |
| 11. tertiary amide         | = 22                 |
| 12. methylene carbon       | = 1,5,28             |
| 13. methine carbon         | = 3,7,13,24,26,33    |
| 14. methine carbon         | = 2,14,20            |

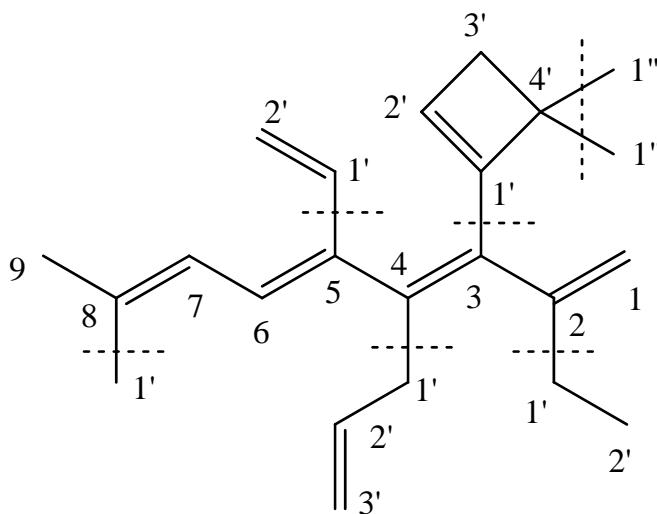
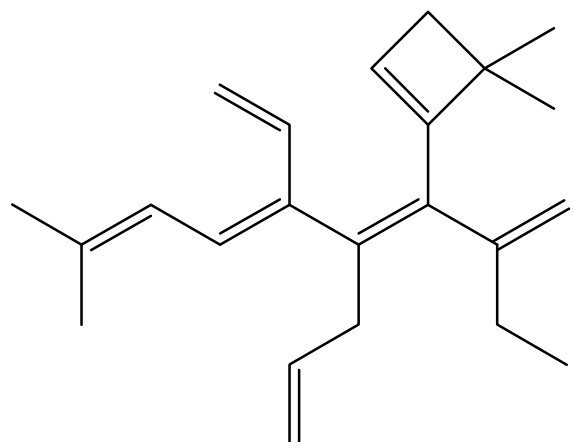
Possible answers are written in lower right corner.



Answers.

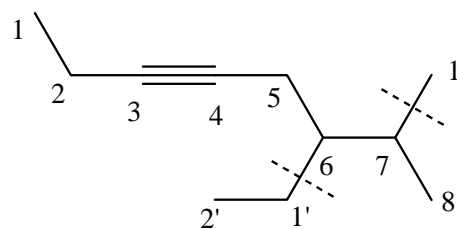
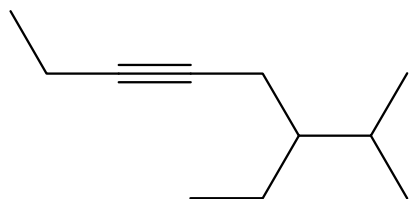


Provide an acceptable name for the following structure.

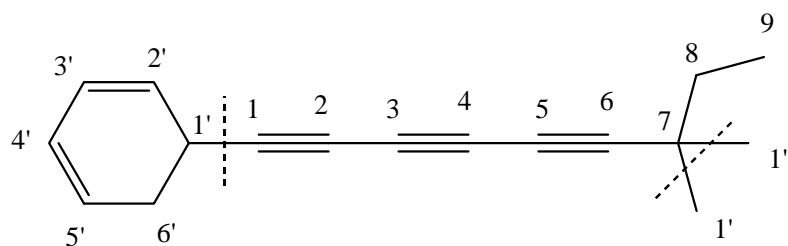
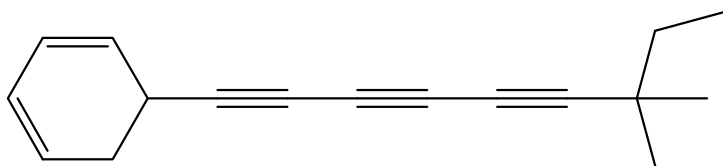


2-ethyl-3-(4,4-dimethylcyclobut-1-enyl)-4-(prop-2-enyl)-5-ethenyl-8-methylnona-1,3Z,5E,7-tetraene  
 -4-allyl -5-vinyl

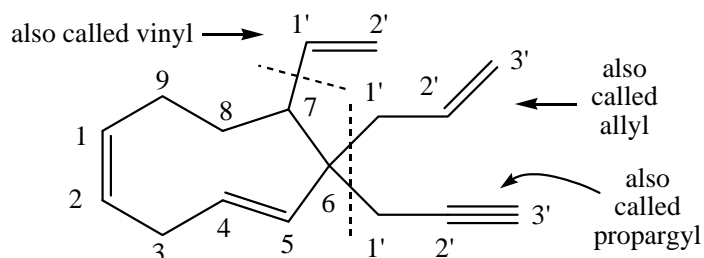
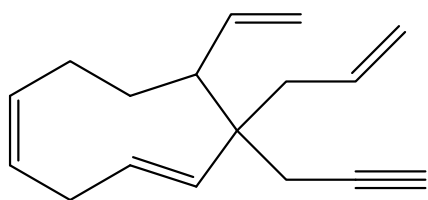
3. Indicate any substituent groups by the number of the carbon atom in the longest chain to which they are attached.



6-ethyl-7-methyloct-3-yne

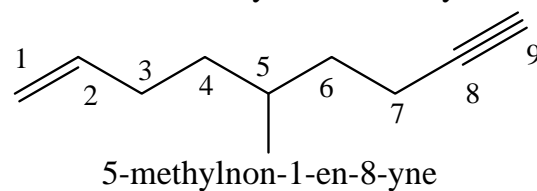
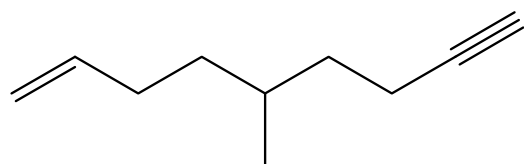
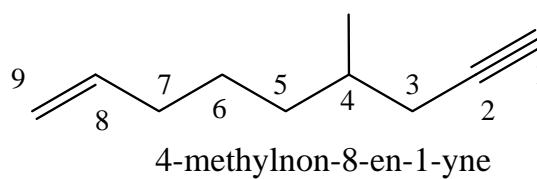
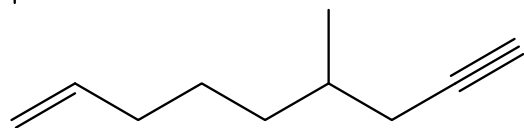
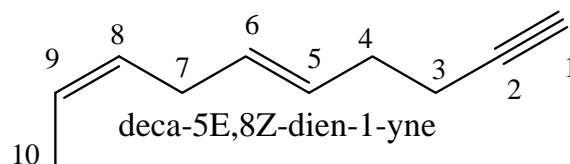
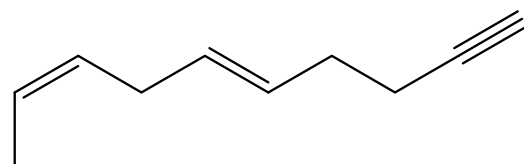
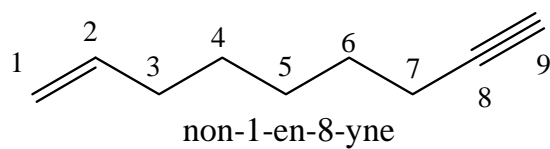
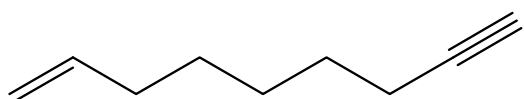


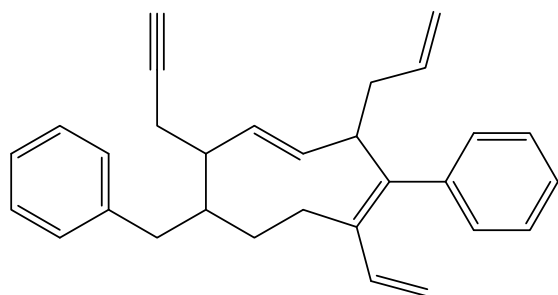
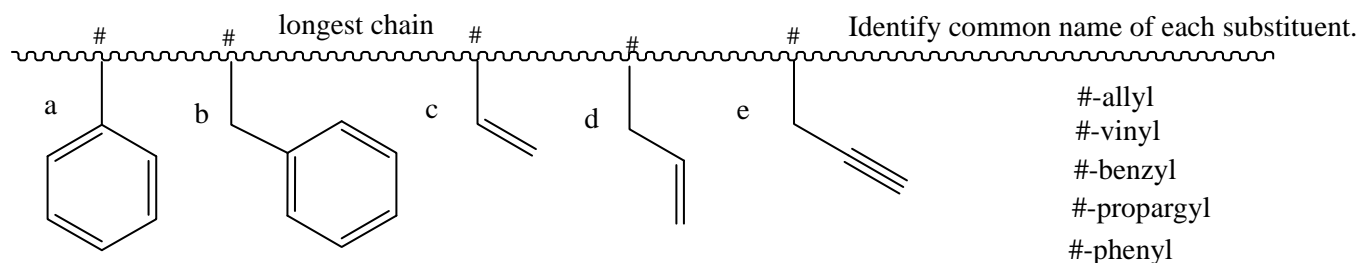
1-(cyclohexa-2,4-dienyl)-7,7-dimethylnona-1,3,5-triyne



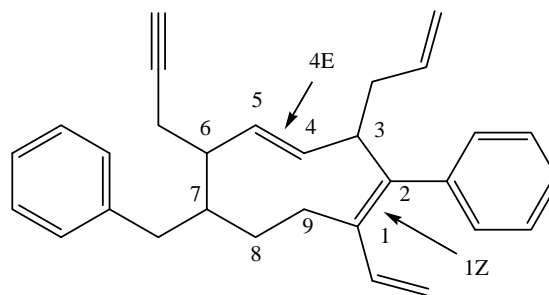
7-ethenyl-6-(prop-2-enyl)-6-(prop-2-ynyl)cyclonona-1Z,4E-diene

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

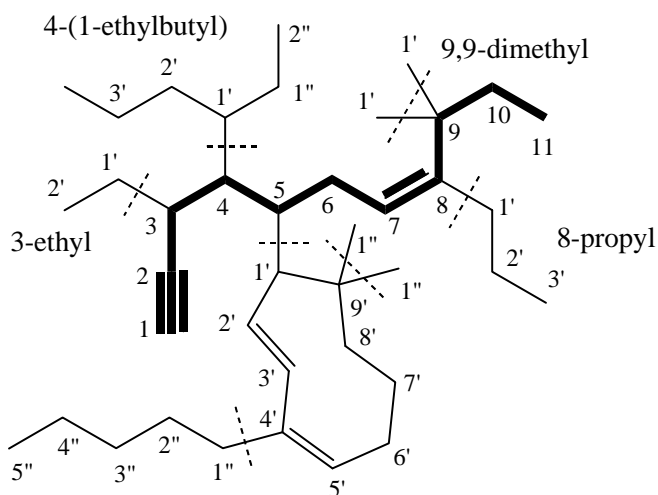
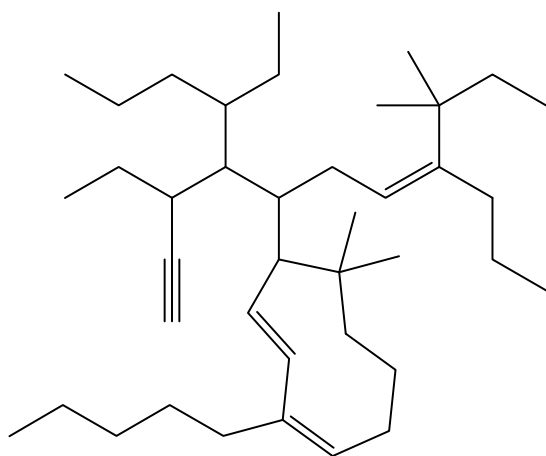




Provide an acceptable name for the above structure.

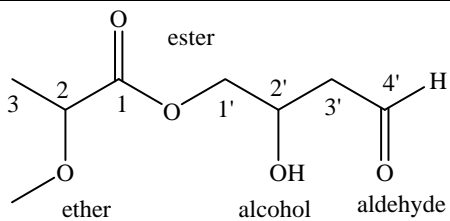
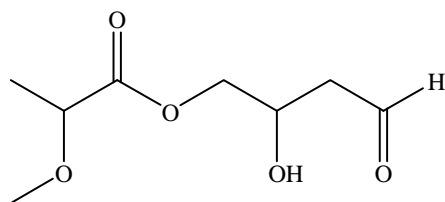


1-vinyl-2-phenyl-3-allyl-6-propargyl-7-benzylcyclonona-1Z,4E-diene

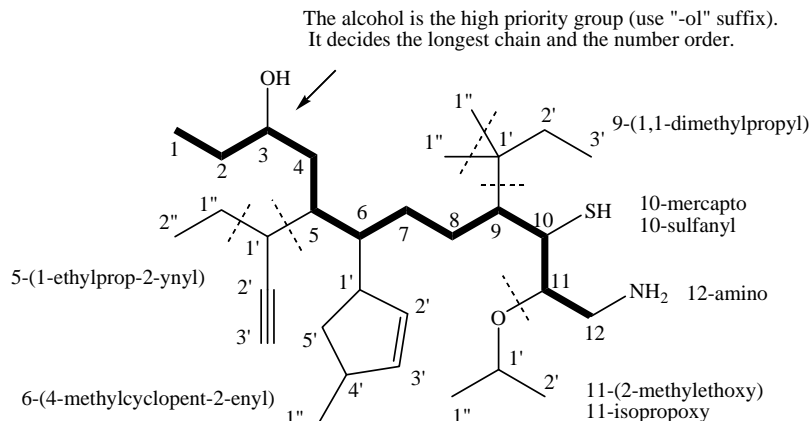
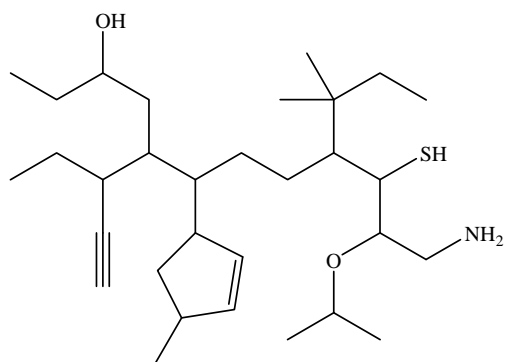
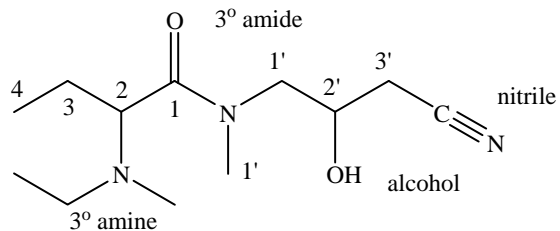
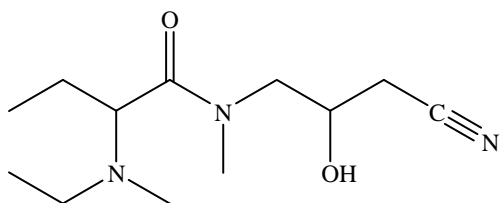
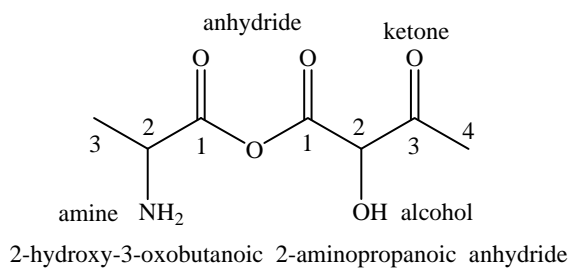
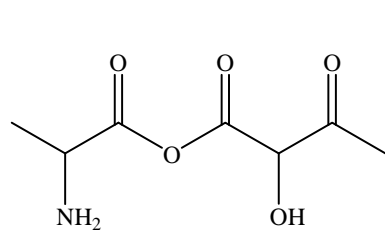


5-(4-pentyl-9,9-dimethylcyclonona-2E,4Z-dienyl)

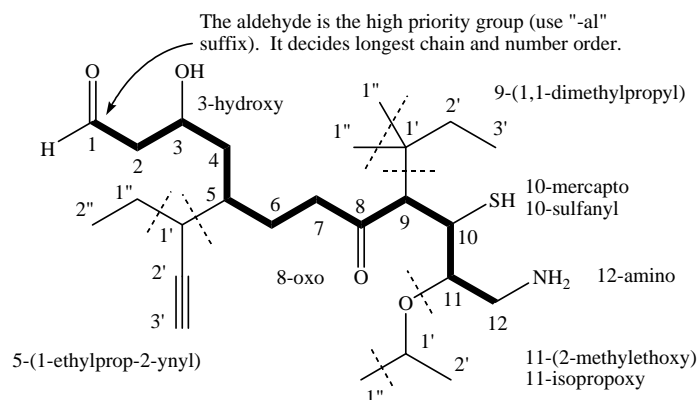
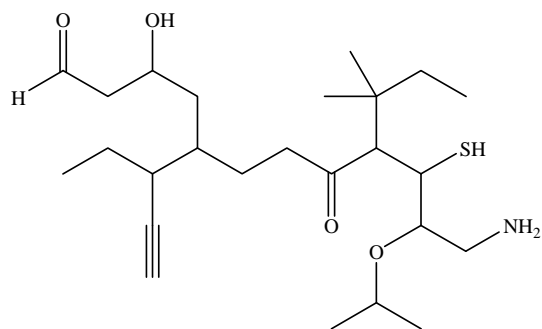
3-ethyl-4-(1-ethylbutyl)-5-(4-pentyl-9,9-dimethylcyclonona-2E,4Z-dienyl)-8-propyl-9,9-dimethylundec-7Z-en-1-yne



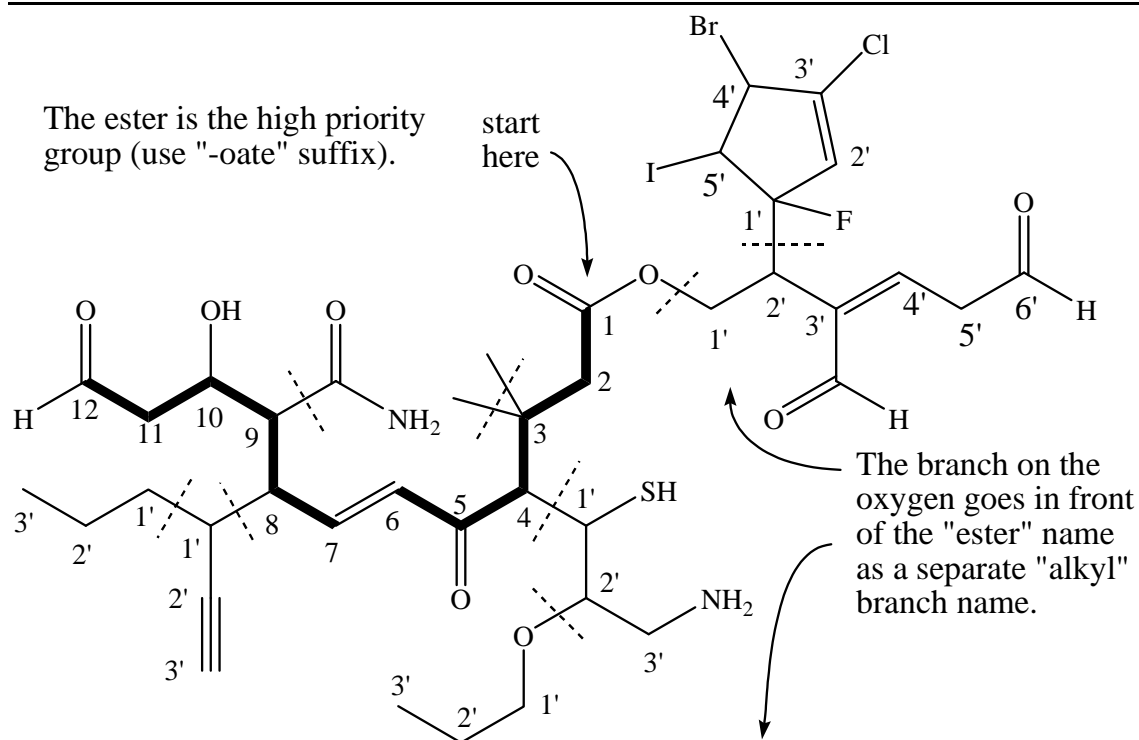
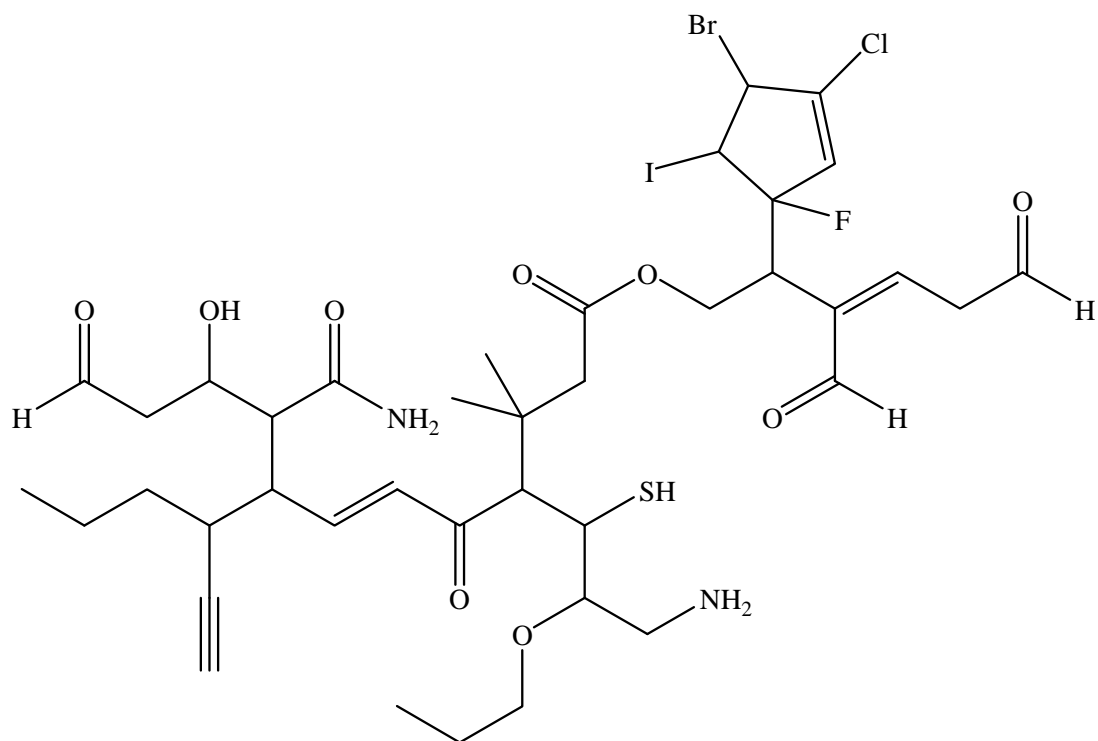
2-hydroxy-4-oxobutyl 2-methoxypropanoate



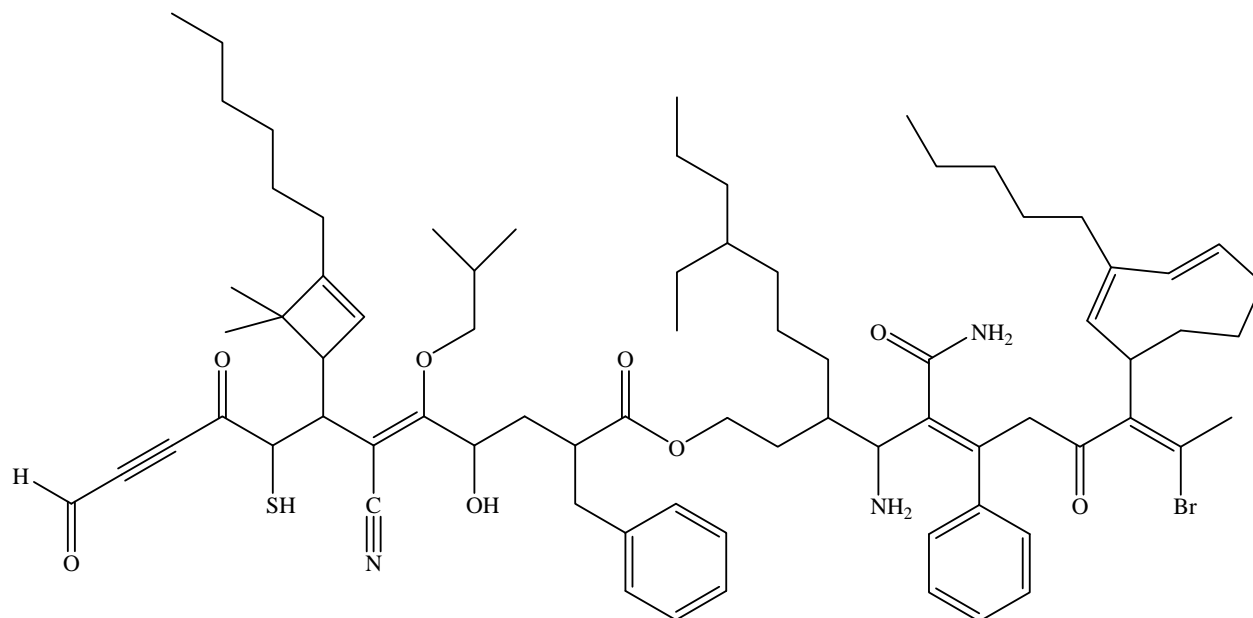
5-(1-ethylprop-2-ynyl)-6-(4-methylcyclopent-2-enyl)-9-(1,1-dimethylpropyl)-10-mercapto-11-(2-methylethoxy)-12-aminododecan-3-ol



3-hydroxy-5-(1-ethylprop-2-ynyl)-8-oxo-9-(1,1-dimethylpropyl)-10-mercapto-11-(2-methylethoxy)-12-aminododecanal

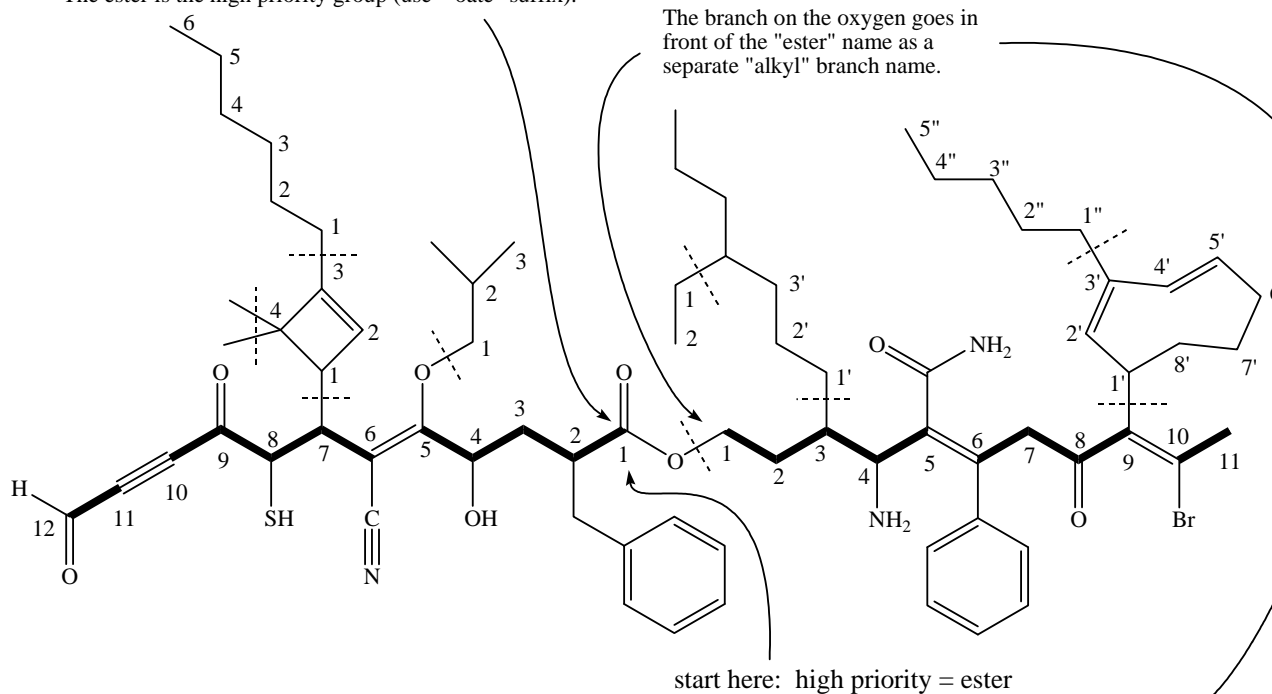


2-(1-fluoro-3-chloro-4-bromo-5-iodocyclopent-2-enyl)-3-formyl-6-oxohex-3Z-enyl  
 3,3-dimethyl-4-(1-mercapto-2-propoxy-3-aminopropyl)-5,12-dioxo-  
 8-(1-propylprop-2-ynyl)-9-amido-10-hydroxydodec-6E-enoate



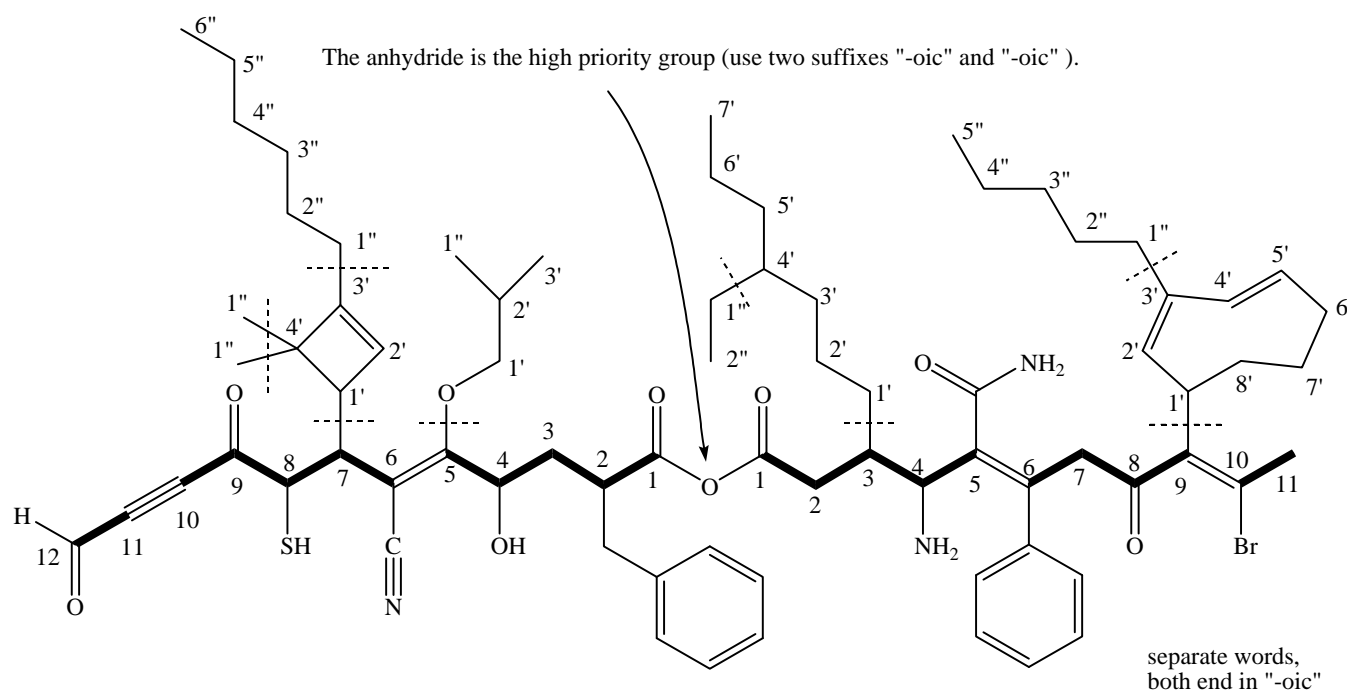
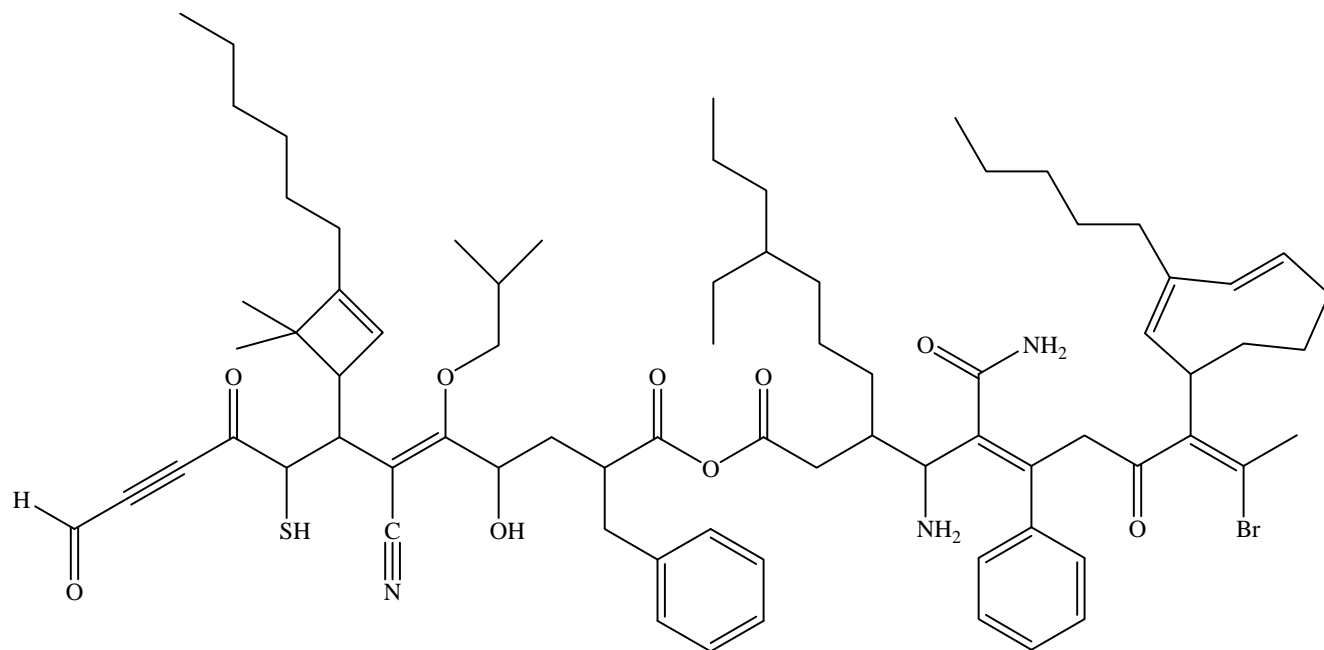
The ester is the high priority group (use "-oate" suffix).

The branch on the oxygen goes in front of the "ester" name as a separate "alkyl" branch name.



3-(4-ethylheptyl)-4-amino-5-amido-6-phenyl-8-oxo-9-(3-pentylcycloocta-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

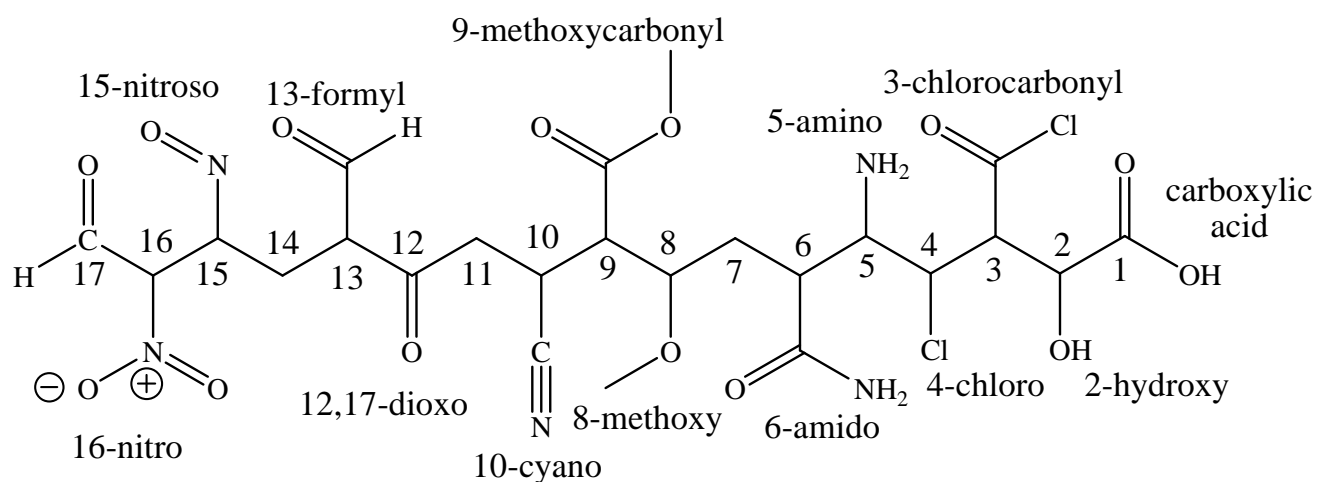
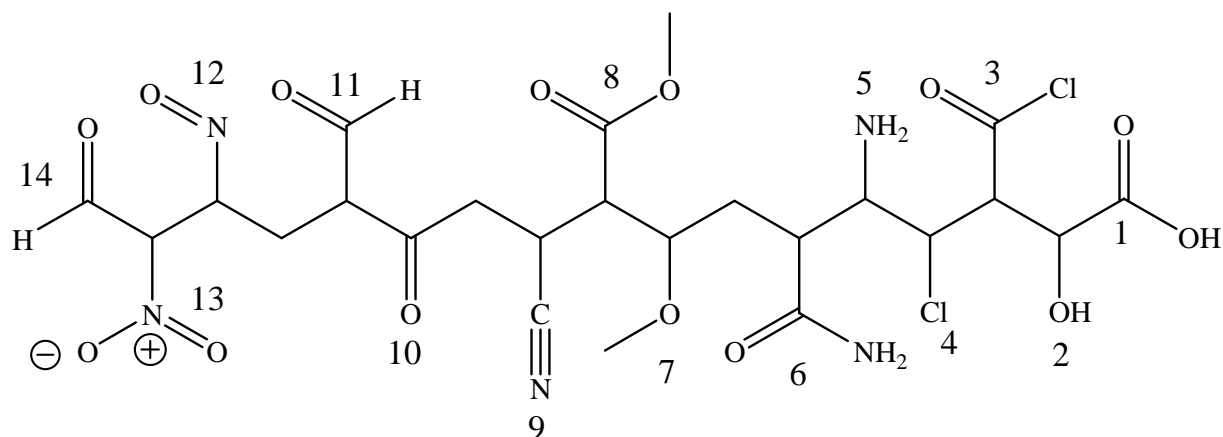




3-(4-ethylheptyl)-2-amino-5-amido-6-phenyl-8-oxo-9-(3-pentylcycloocta-2Z,4E-dienyl)-10-bromoundeca-5E,9Z-dienoic

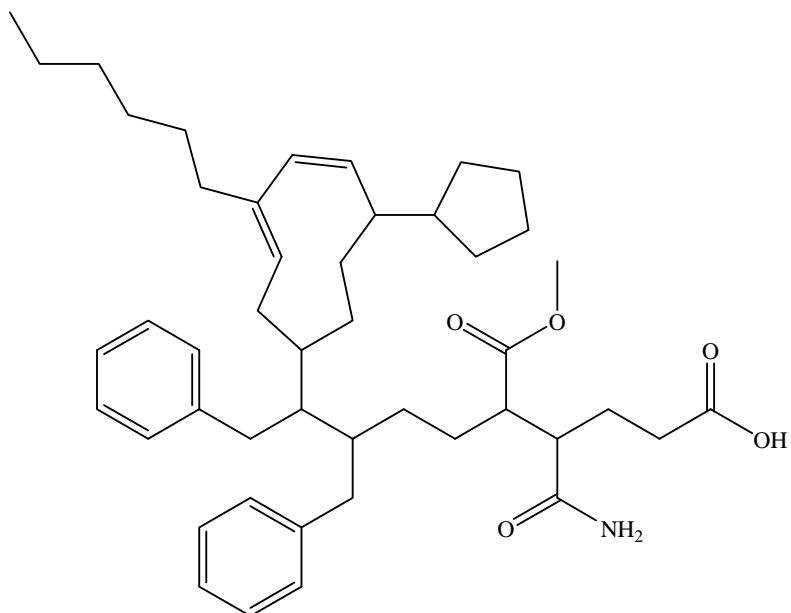
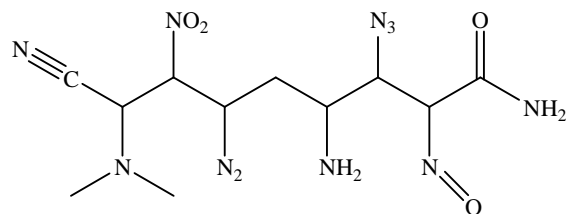
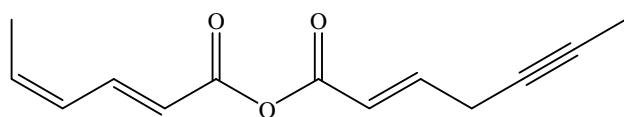
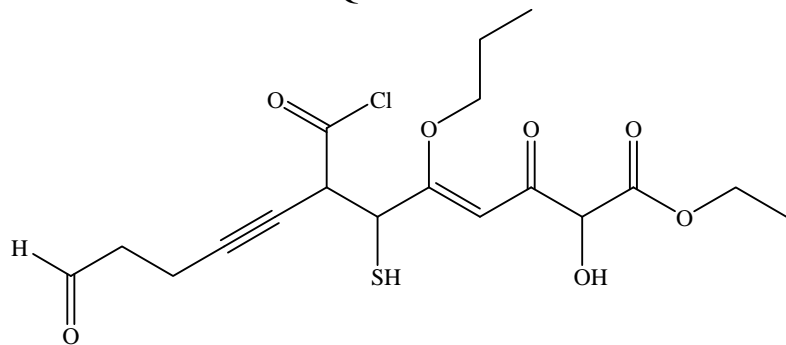
2-benzyl-4-hydroxy-5-(2-methylprooxy)-6-cyano-7-(3-hexyl-4,4-dimethylcyclobut-2-enyl)-8-mercapto-

9,12-dioxododec-5E-en-10-ynoic anhydride



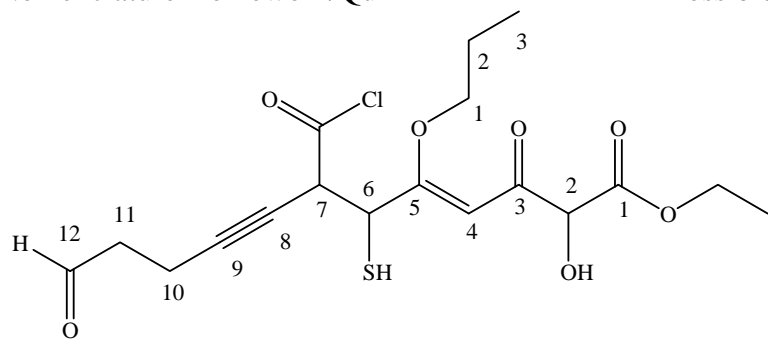
2-hydroxy-3-chlorocarbonyl-4-chloro-5-amino-6-amido-8-methoxy-9-methoxycarbonyl-  
10-cyano-12,17-dioxo-13-formyl-15-nitroso-16-nitroheptadecanoic acid

## Nomenclature Homework/Quiz

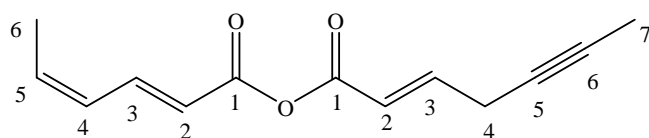


## Nomenclature Homework/Quiz

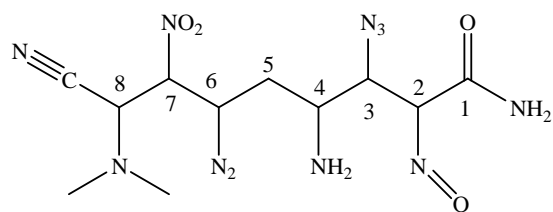
## Possible KEY



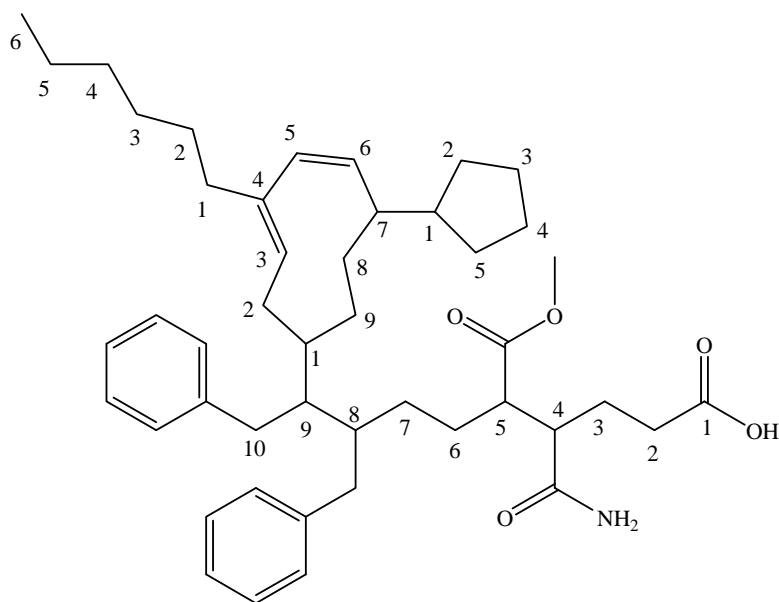
ethyl 2-hydroxy-3,12-dioxo-5-propoxy-6-mercapto-7-chlorocarbonyldodec-4Z-en-8-ynoate



hept-2E-en-5-ynoic hexa-2E,4Z-dienoic anhydride



2-nitroso-3-azido-4-amino-6-diazo-7-nitro-8-(N,N-dimethylamino)-8-cyano-octanamide



4-amido-5-methoxycarbonyl-8-benzyl-9-(4-hexyl-7-cyclopentylcyclonona-3E,5Z-dienyl)-10-phenyldecanoic acid