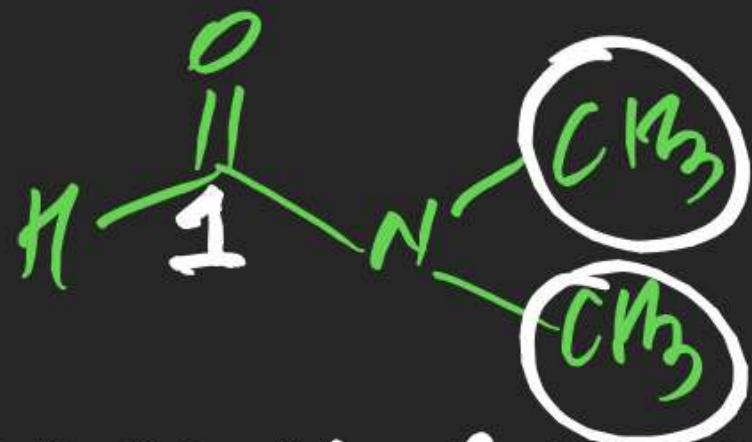


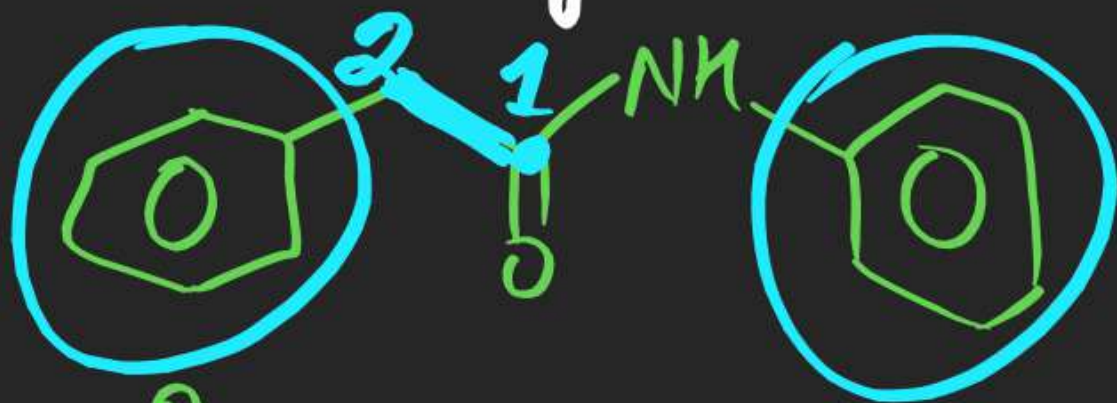
(158)



DMF (Dimethyl formamide)

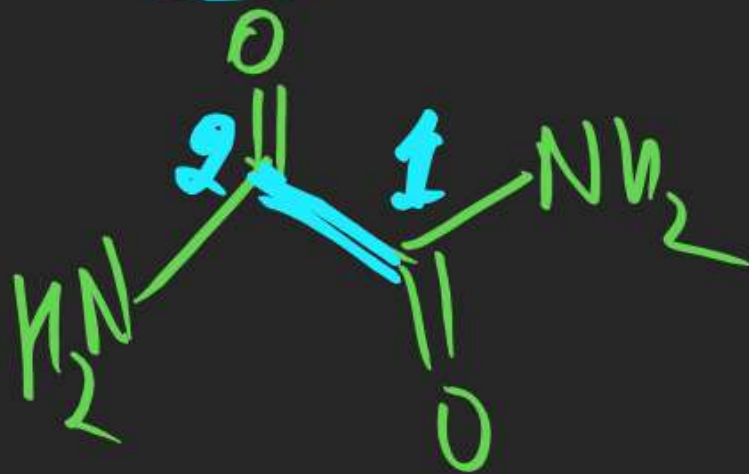
N,N-Dimethylmethanamide

(159)



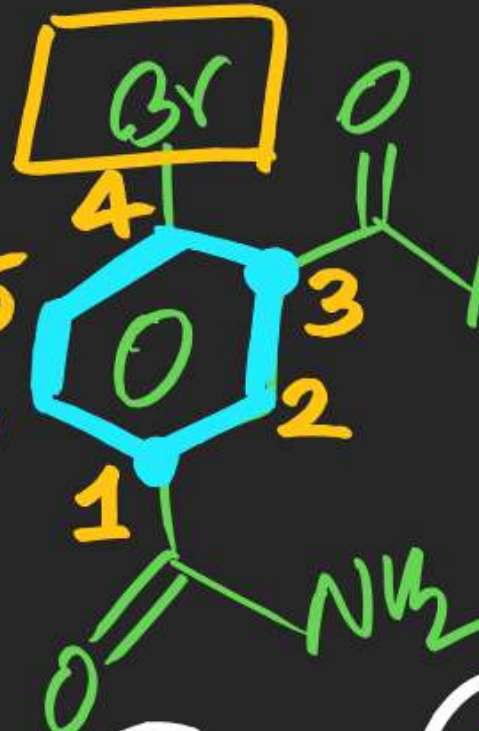
N,2-Diphenylethanamide

(160)



Ethandiamide

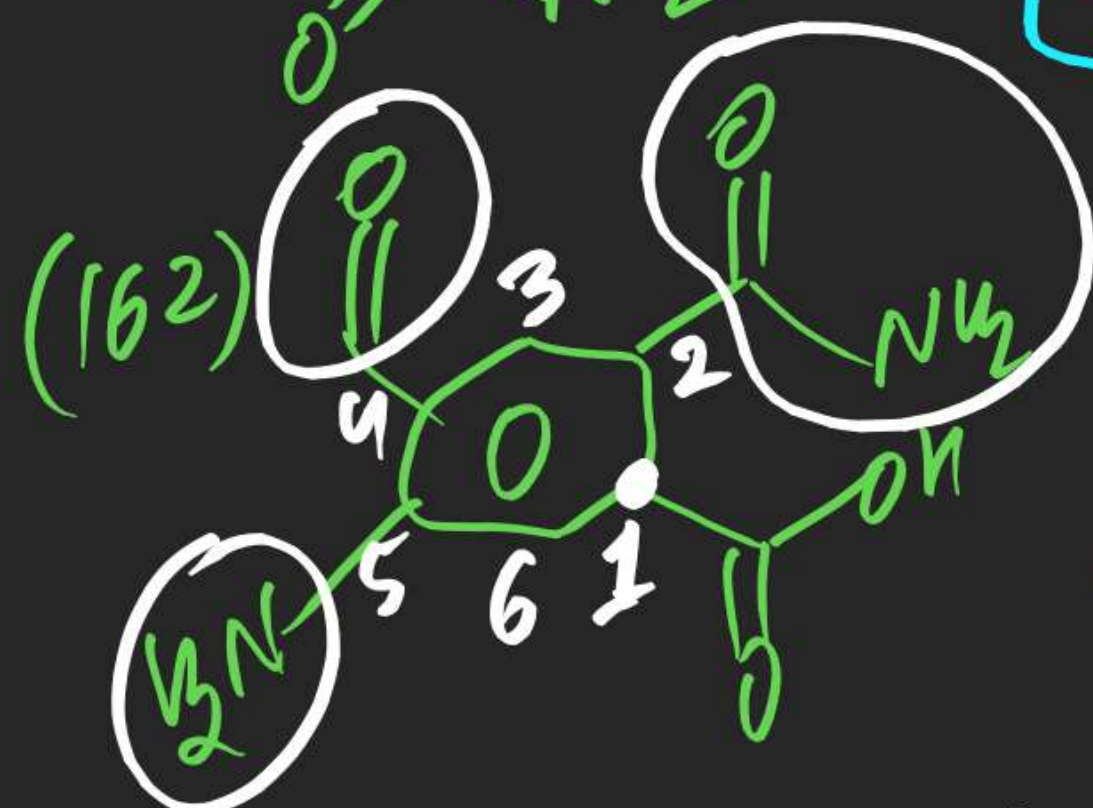
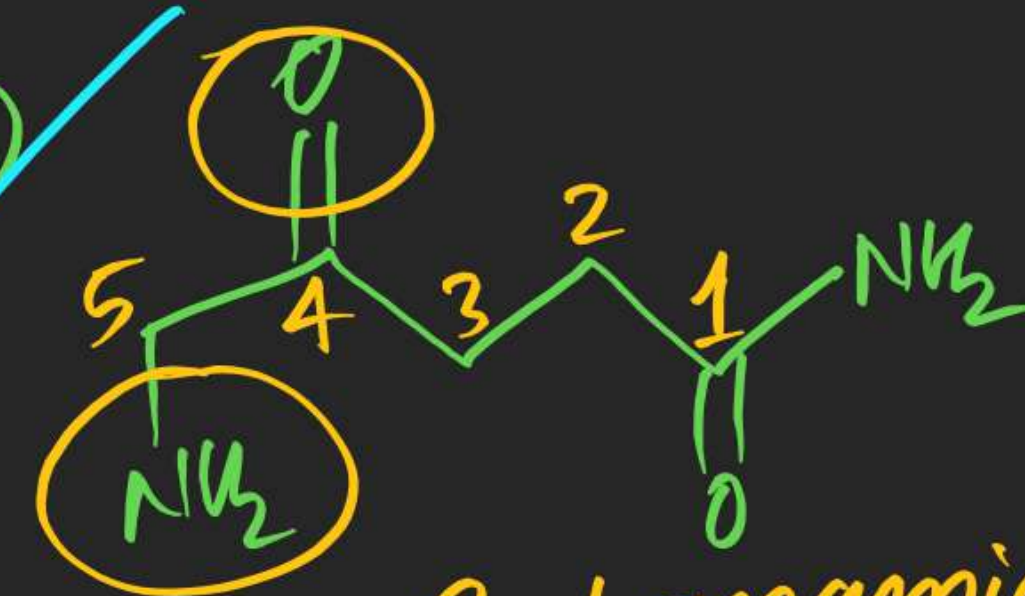
Side chain
(161)



4-Bromo $\text{O}=\text{C}-\text{H}$ (163)
Benzene
-1,3-diCarboxamide



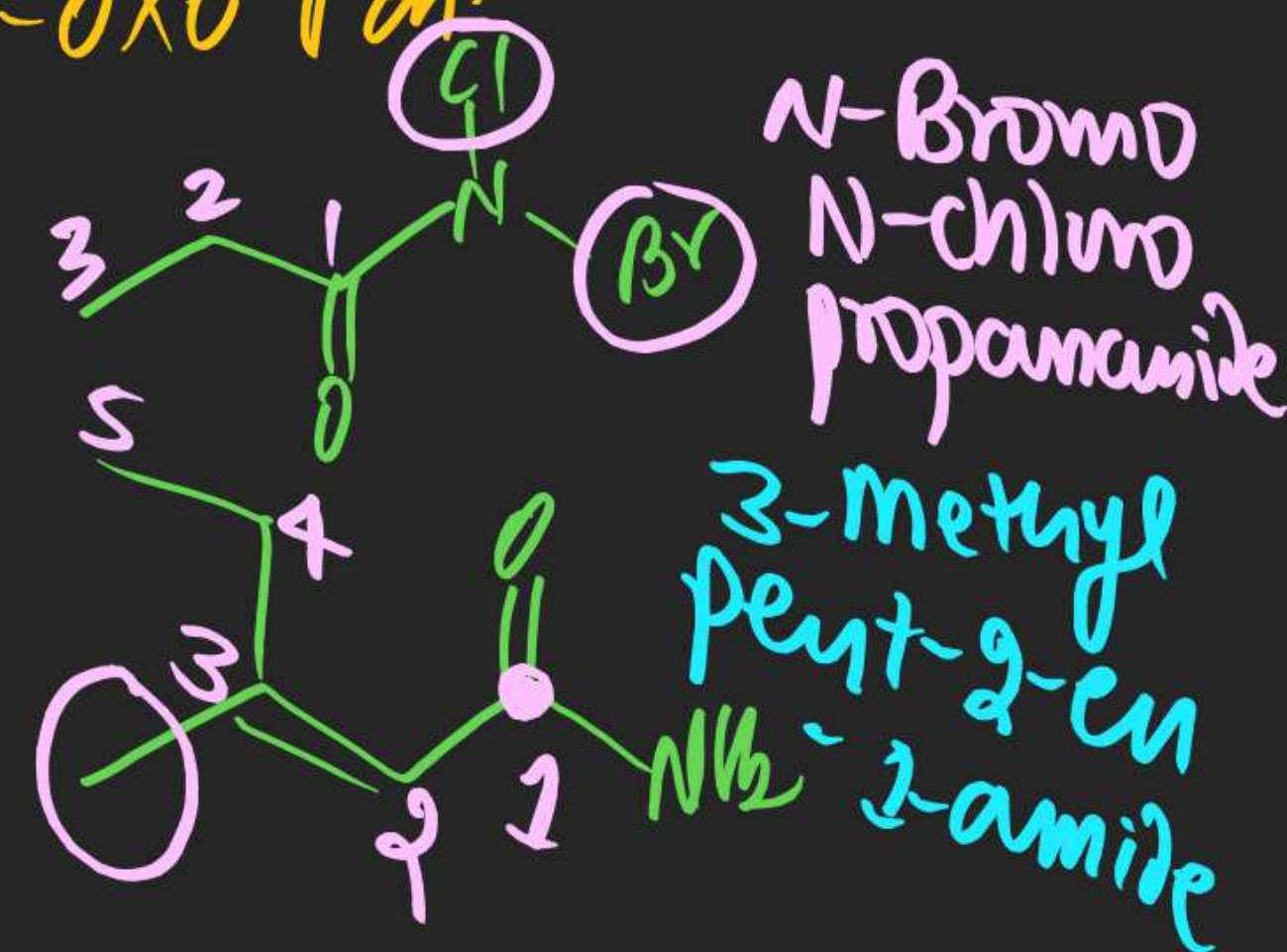
5-Amino-4-oxo Pentanamide



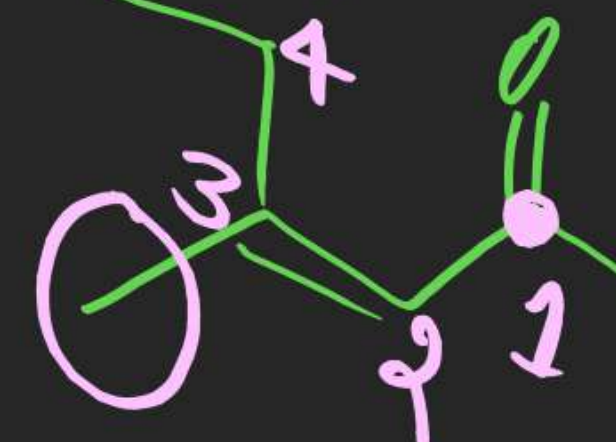
5-Amino-2-Carbonyl-4-formyl
Benzoic Acid (165)

1 2 4 5
1 3 4 6

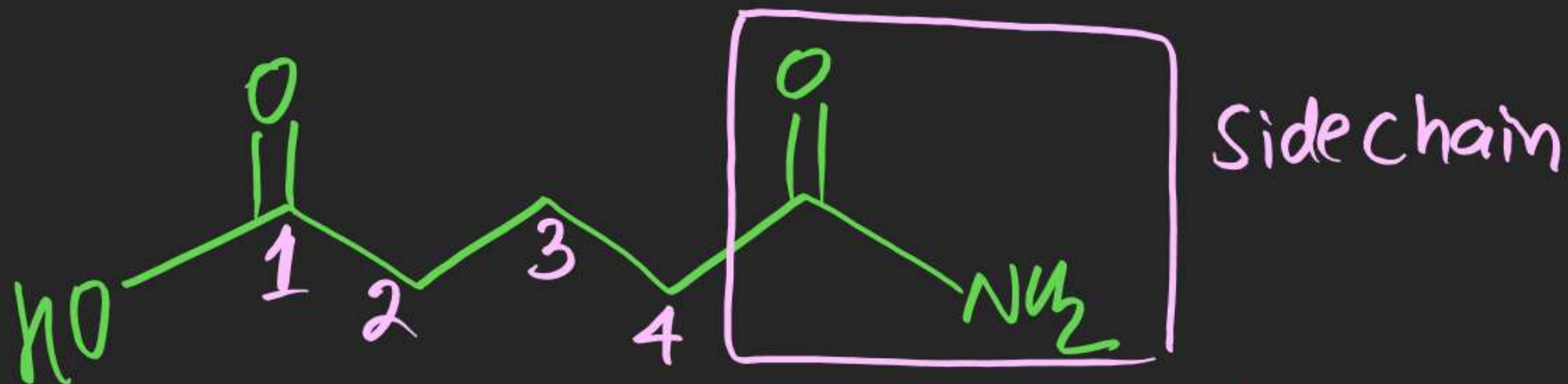
(164)



3-methyl
pent-2-en-2-amine

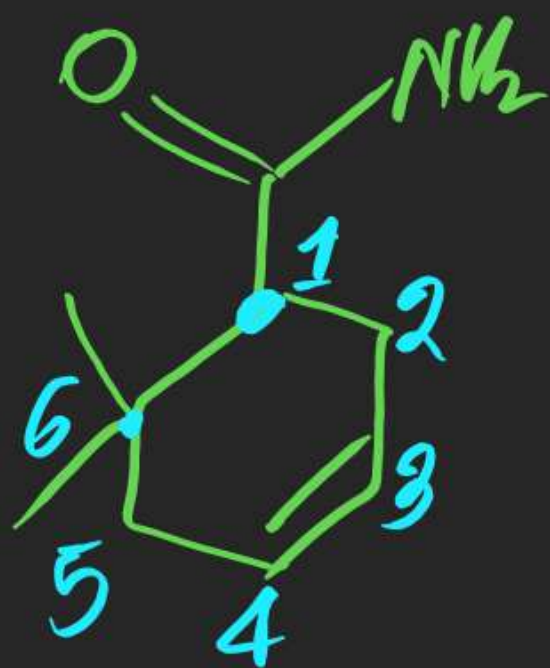


(166)



4-Carbamoyl Butanoic Acid

(167)



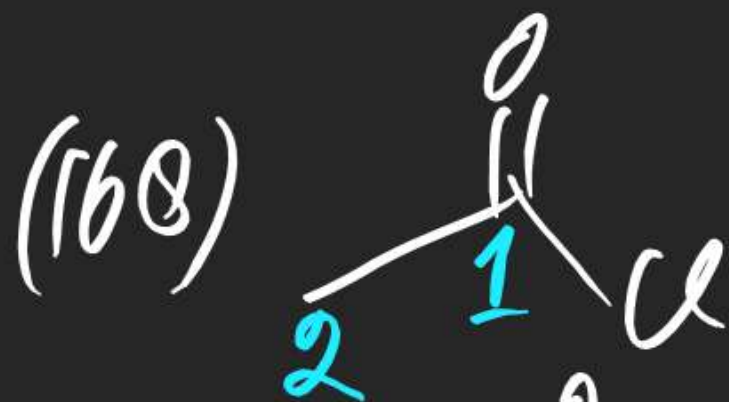
6,6-Dimethyl cyclohex-3-ene Carboxamide.

(#) Naming of Acid halide:



Prefix: Halo Carbonyl

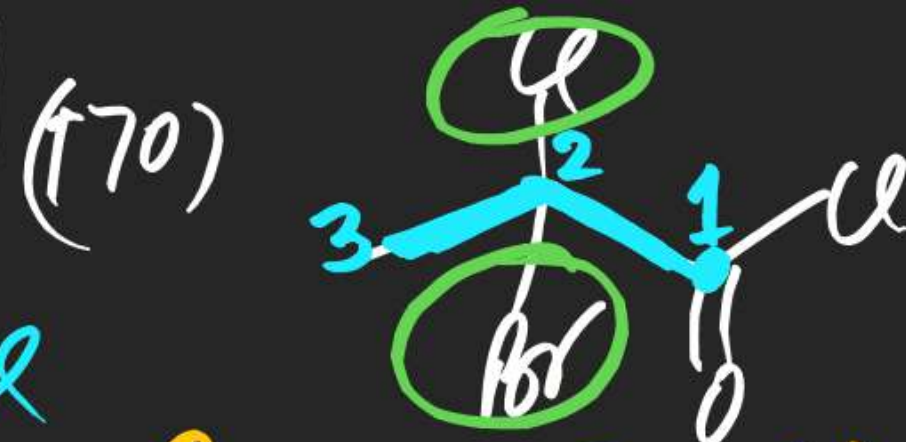
Suffix: oyl halide
or Carbonyl halide



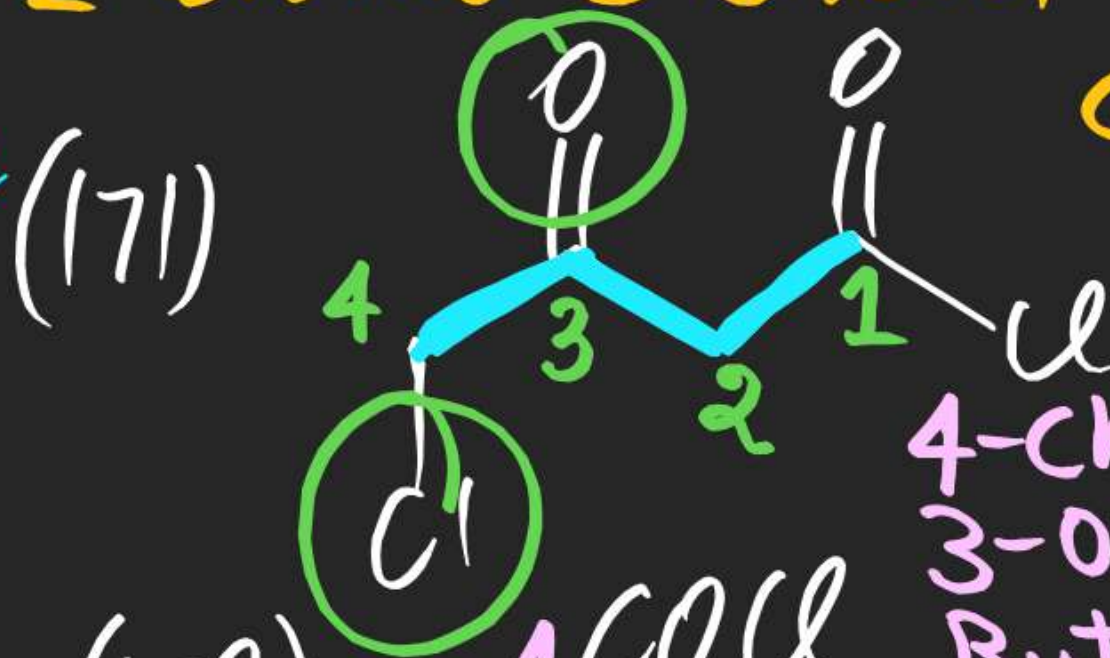
Ethanoyl chloride



2-Bromo
Ethanoyl chloride



2-Bromo-2-chloro Propanoyl
chloride

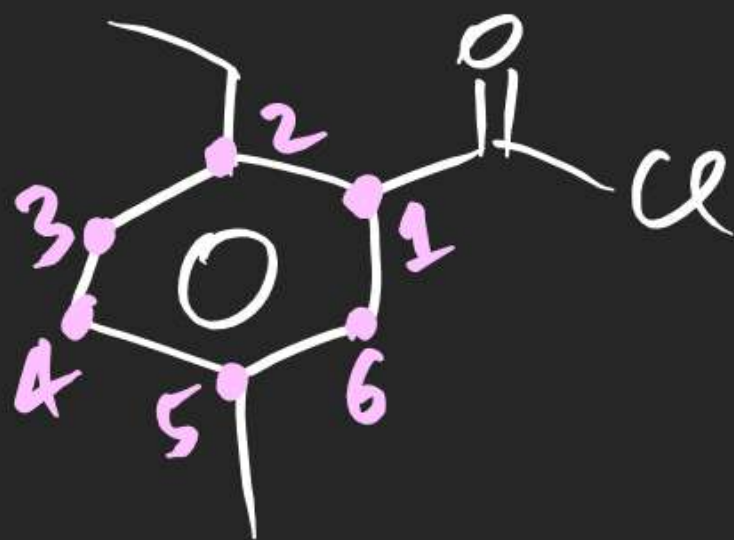


4-chloro
3-oxo
Butanoyl
chloride



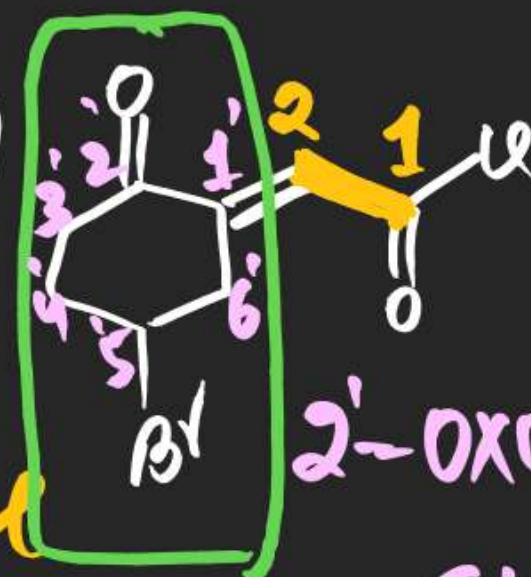
Ethandioyl chloride

(173)



2-Ethyl-5-methyl
Benzoyl chloride

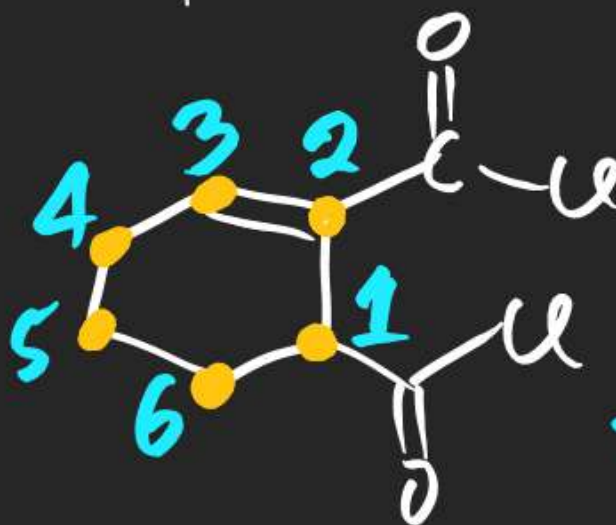
or
2-Ethyl-5-methyl
Benzene Carbonyl
Chloride



2-[5'-Bromo-

2'-oxo Cyclohexylidene]
Ethanoyl chloride

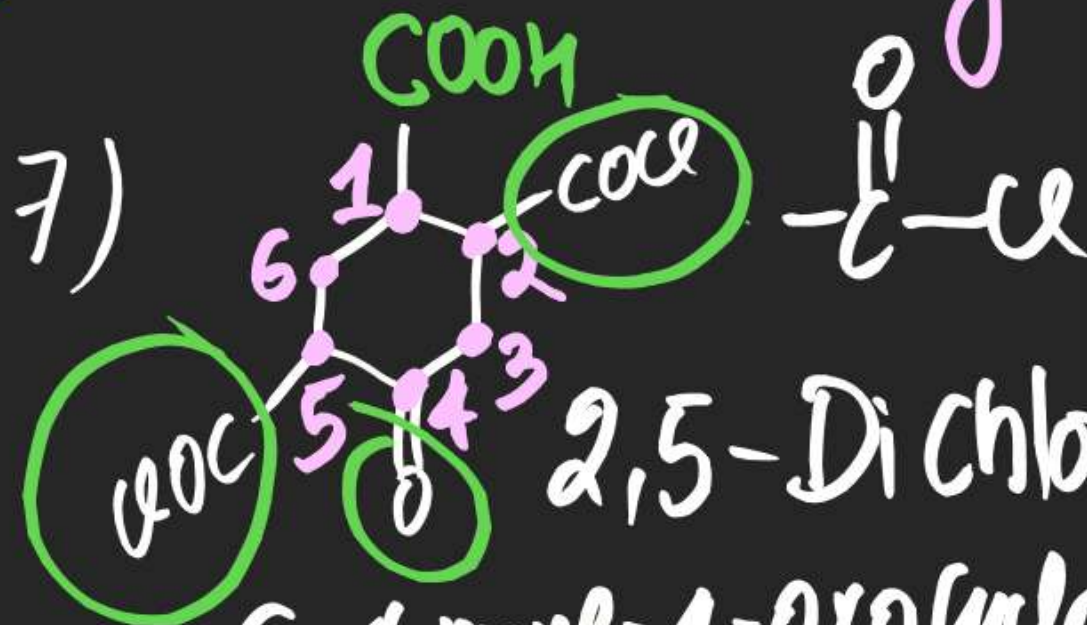
(174)



Cyclohex-2-ene

-1,2-Di Carbonyl
Chloride

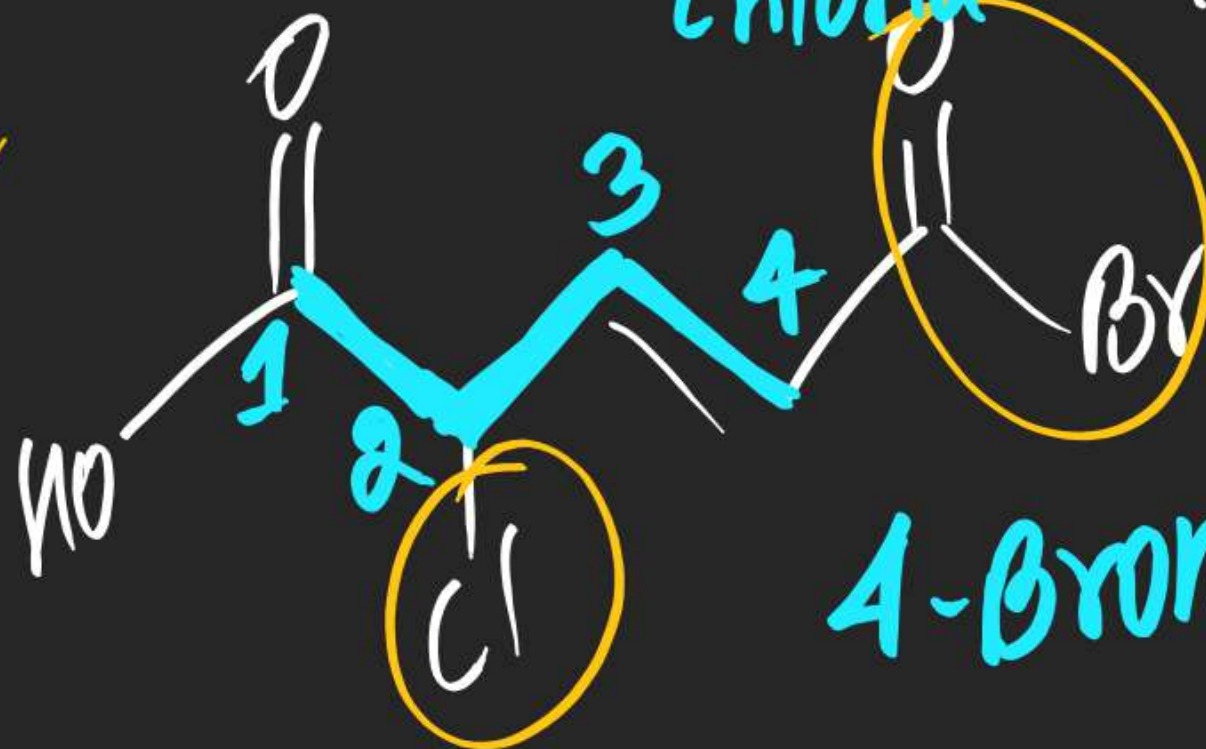
(177)



2,5-Dichloro

Carbonyl-4-Oxo Cyclohexene
Carboxylic Acid

(175)



4-Bromo Carbonyl-2-chloro
But-3-enoic Acid

(#) Naming of Cynde

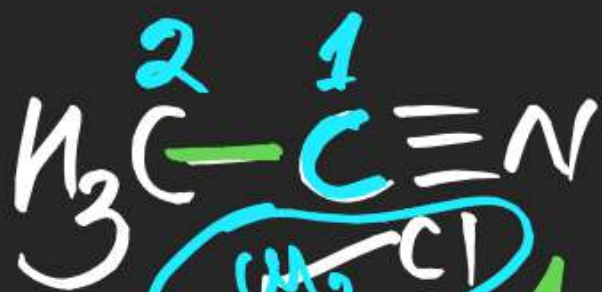


Prefix
cyano

Suffix
nitrile / Carbonitrile

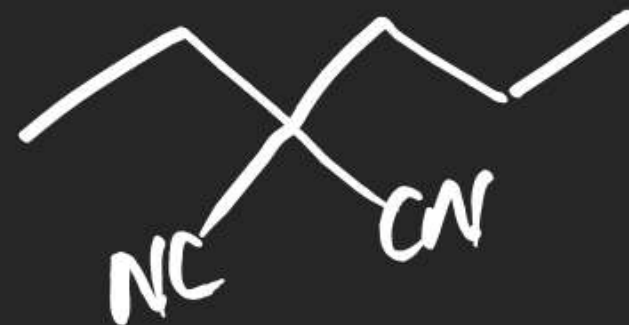


(178)



Ethanenitrile

(181)



(179)



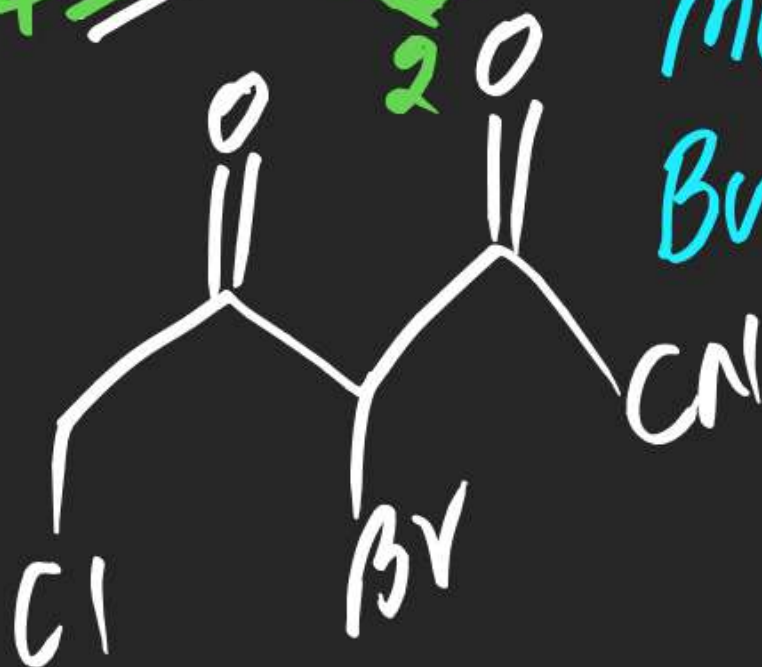
3-chloro
methyl

But-3-ene-1-nitrile

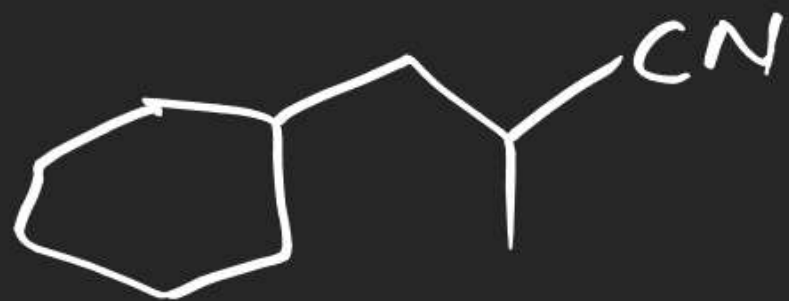
(182)



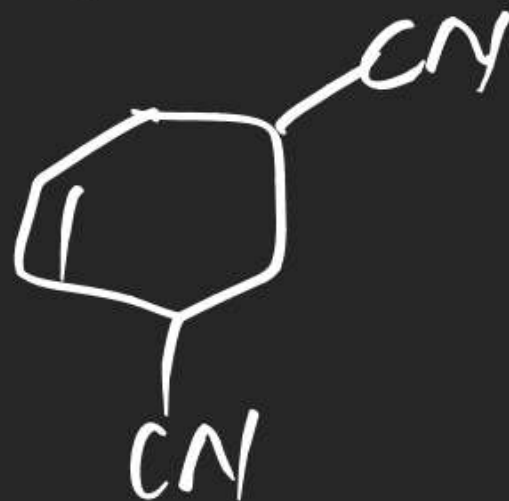
(180)



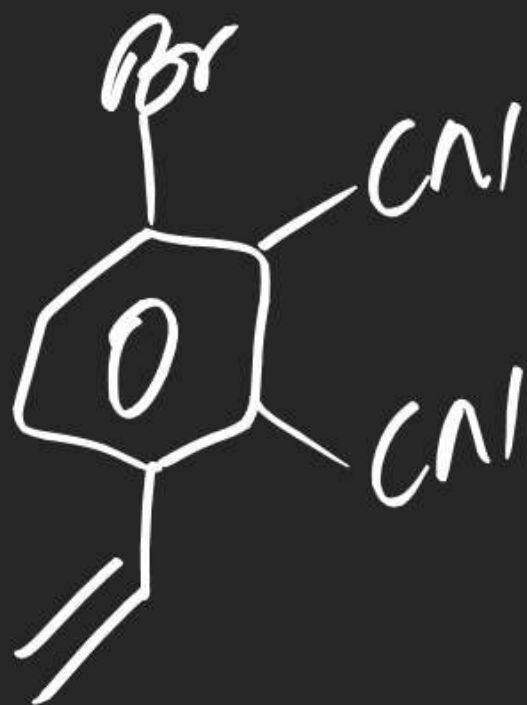
(183)



(184)



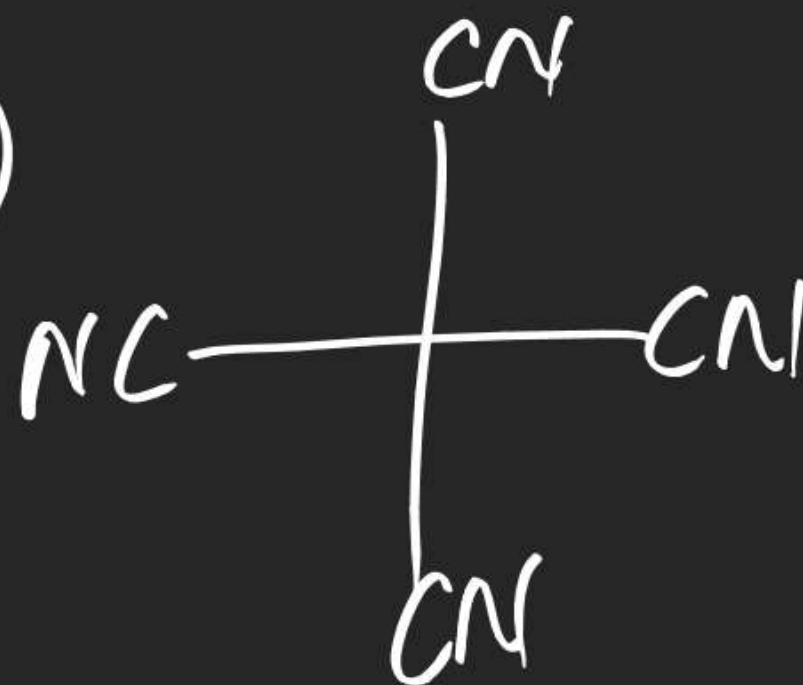
(185)



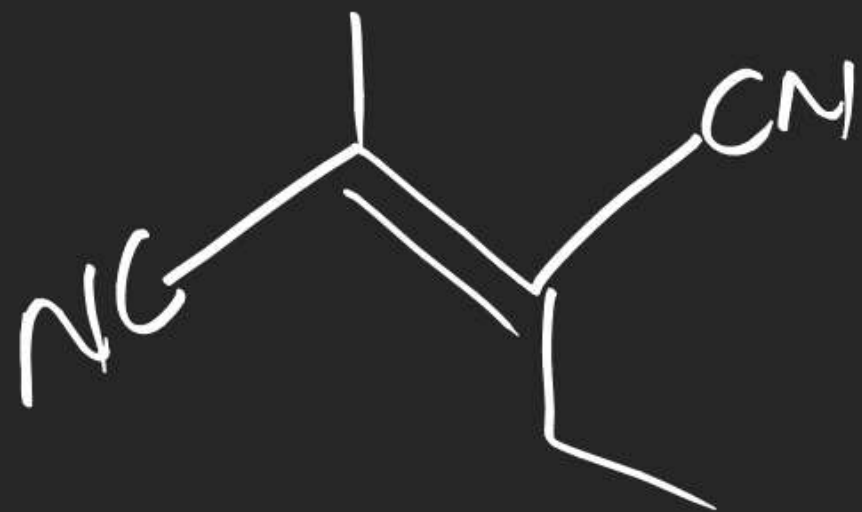
(186)



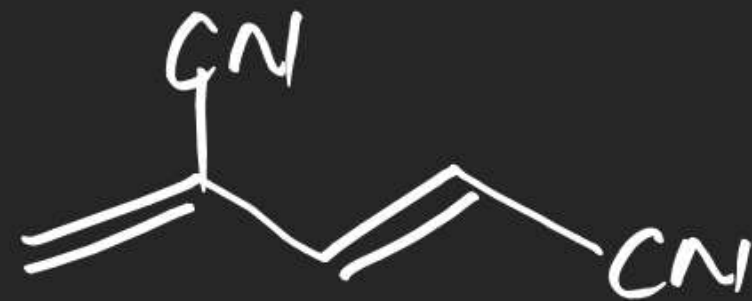
(187)



(108)



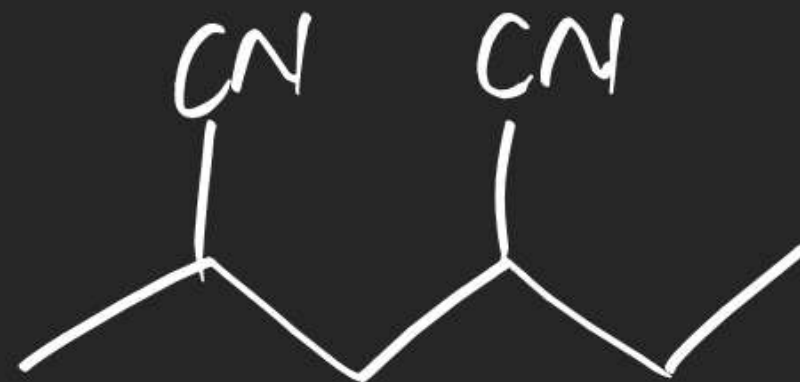
(190)



(109)

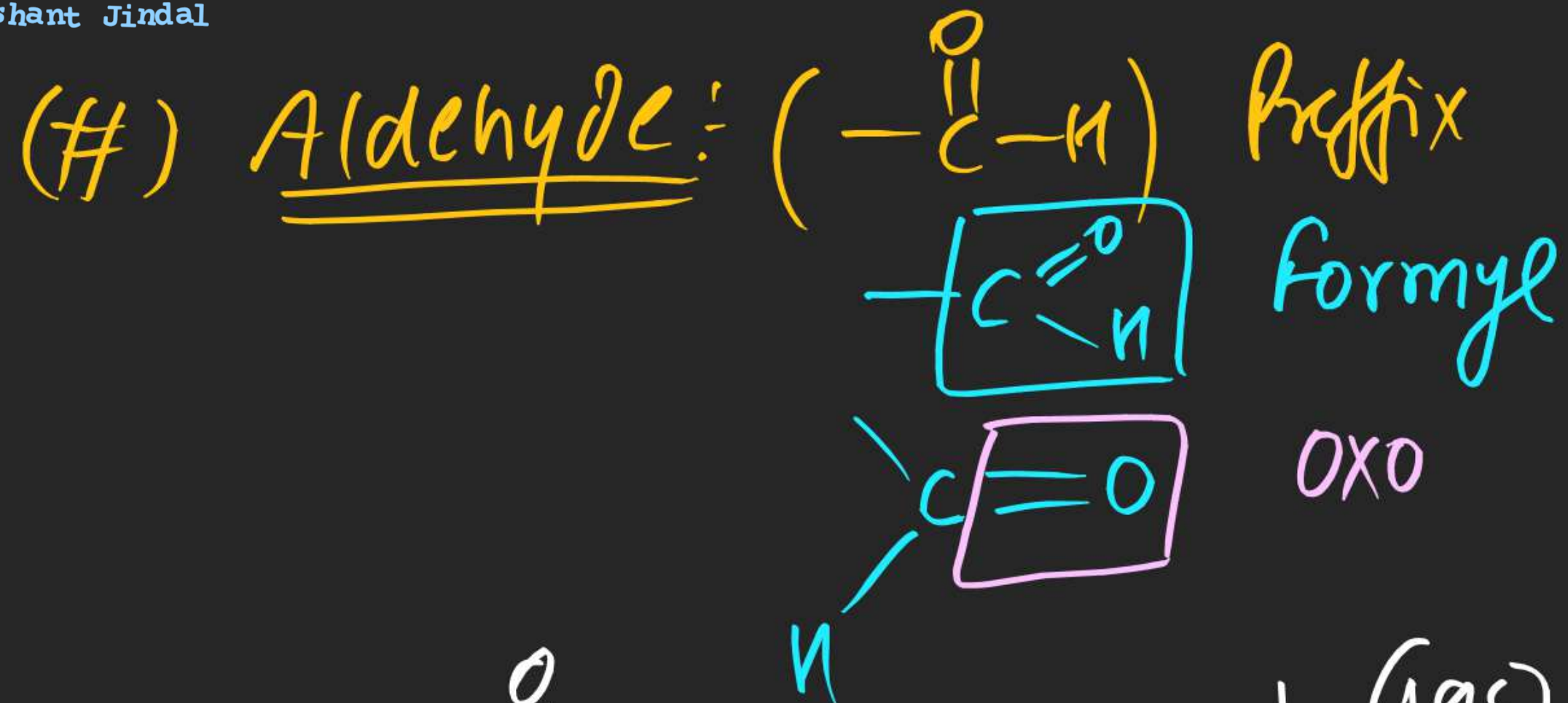


(191)



(192)





(195)

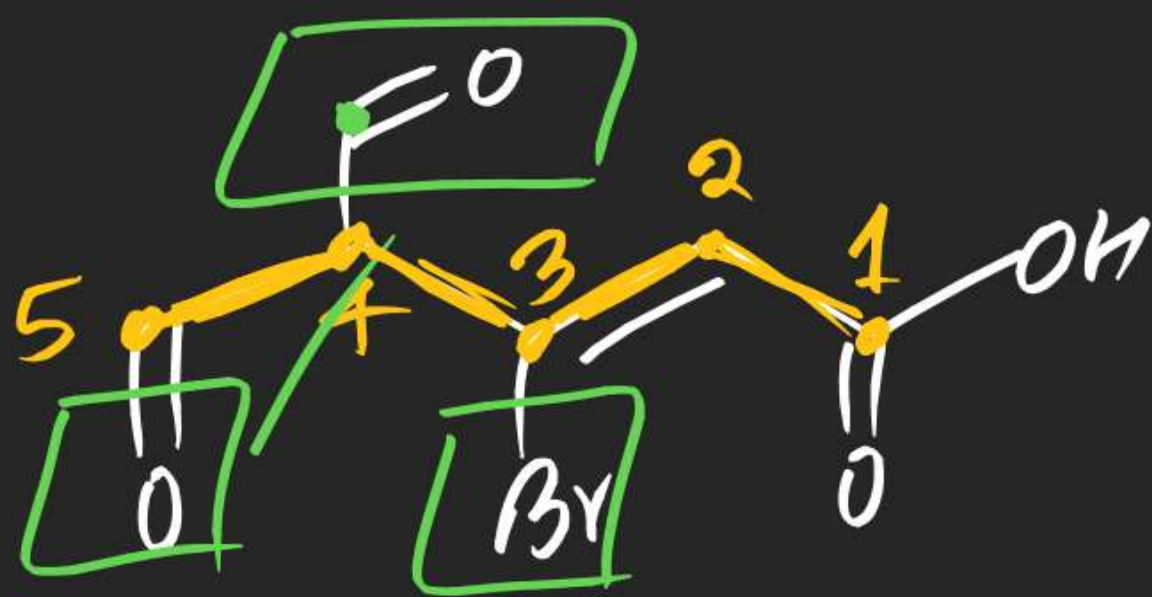
(196)

Suffix
Carbalddehyde

al



(197)

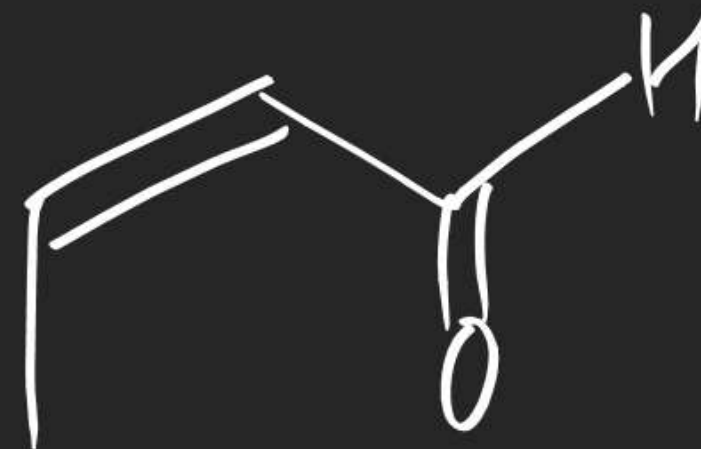


3-Bromo-4-formyl
-5-oxo pent-2-enoic Acid

(198)



(200)



(199)



Backlog

11th

IUPAC

CLASSIFICATION AND NOMENCLATURE

15. The IUPAC name of acetyl acetone is:

(A) Pentane-2,5-dione

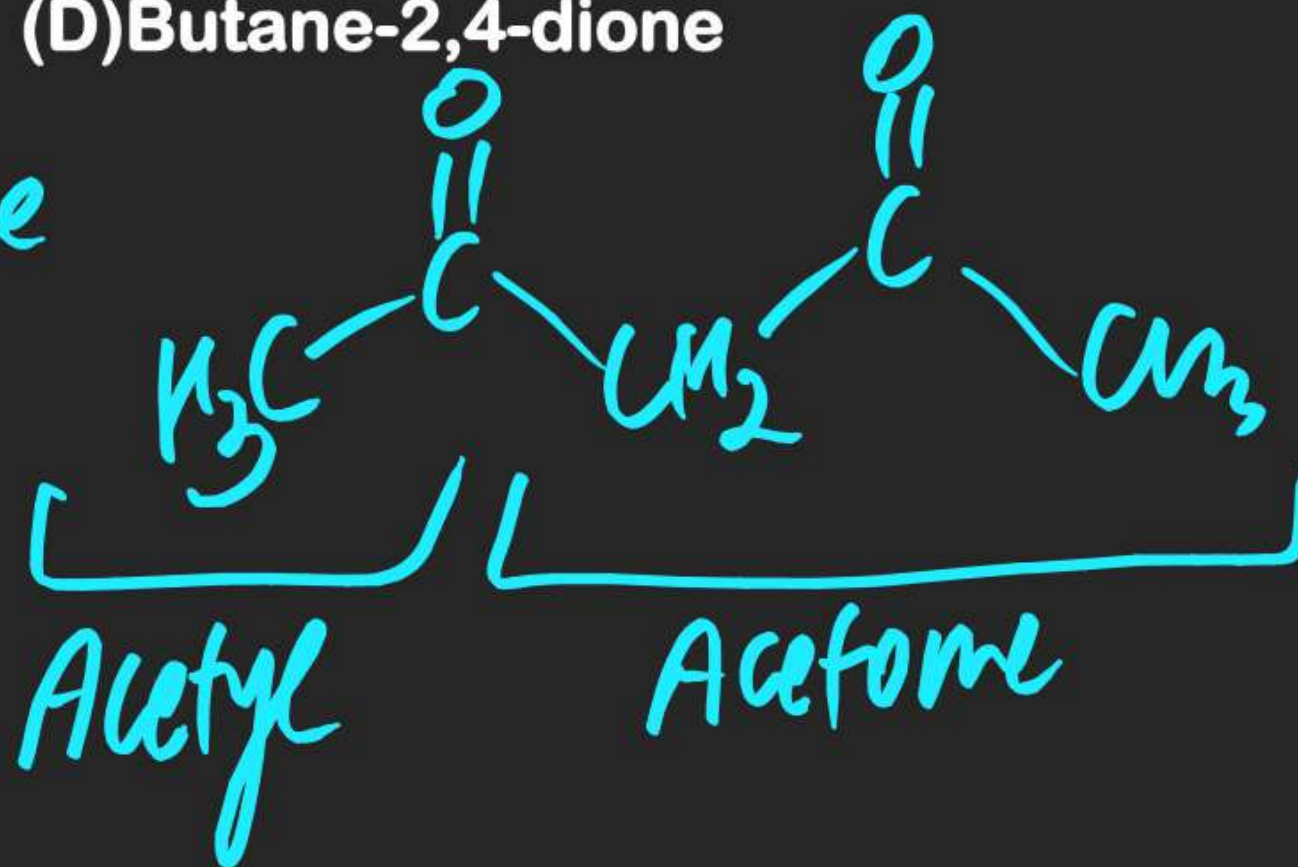
(B) Pentane-2,4-dione

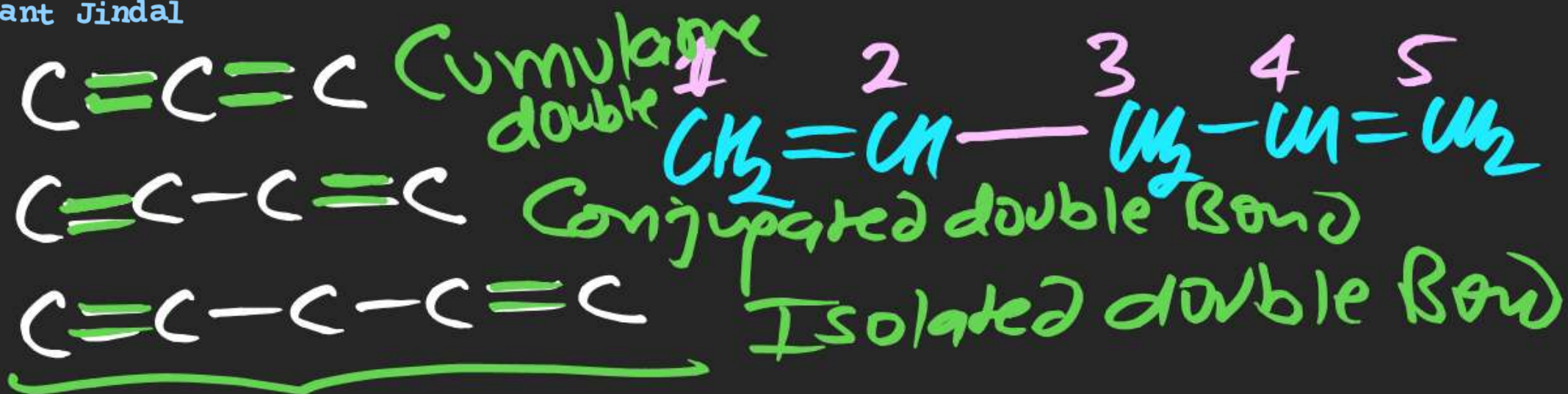
(C) Hexane-2,4-dione

(D) Butane-2,4-dione

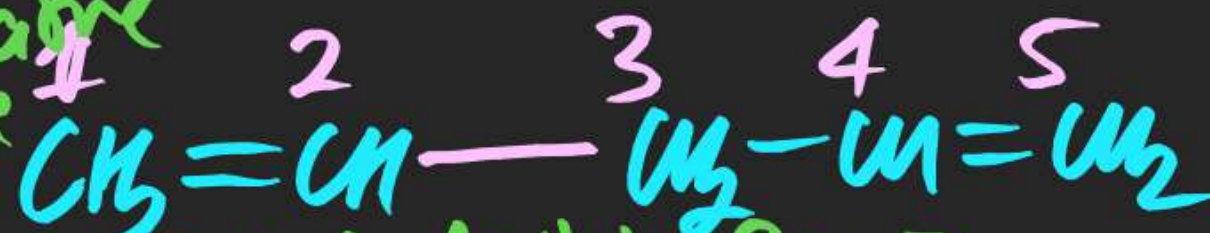
Solⁿ:

Acetyl Acetone





Penta-1,4-diene



methyl



ethyl



vinyl



allyl



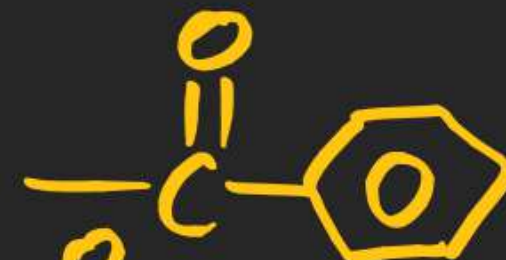
phenyl



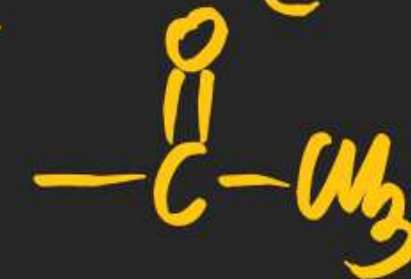
benzyl



Benzoyl



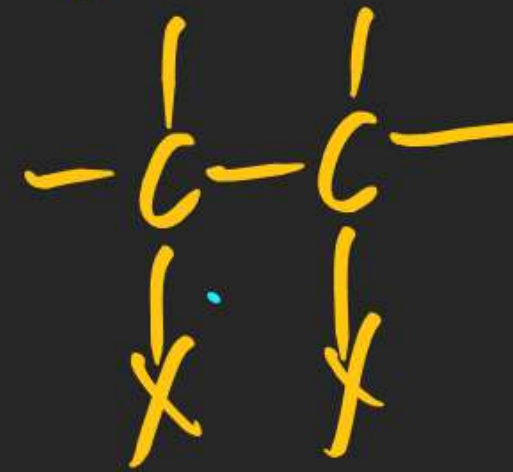
acetyl



geminal (gem)

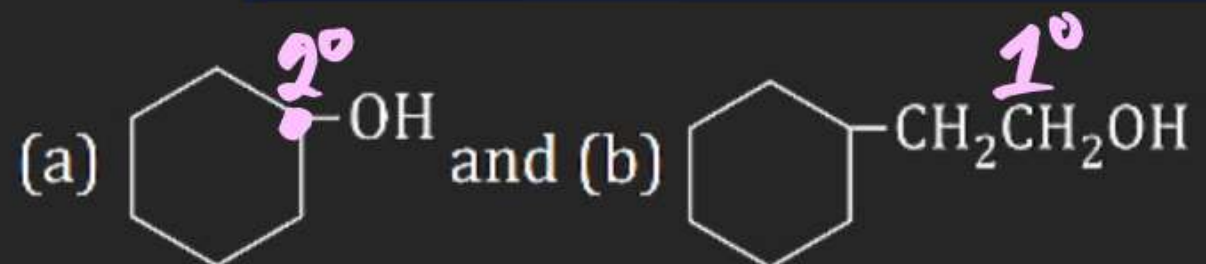


vicinal (vic)



CLASSIFICATION AND NOMENCLATURE

17.



True statement for the above compounds is:

- (A) (a) is phenol while (b) is alcohol
 (B) Both (a) and (b) are primary alcohol
 (C) (a) is primary and (b) is secondary alcohol
 (D) (a) is secondary and (b) is primary alcohol

Alcohol
is present
at 1° carbon

primary
Alcohol

secondary
Alcohol

Termin
Alc.

CLASSIFICATION AND NOMENCLATURE

18. The IUPAC name of the following structure $(\text{CH}_3)\text{C.C.C.}(\text{CH}_3)\text{CH}(\text{CH}_3)$ is:

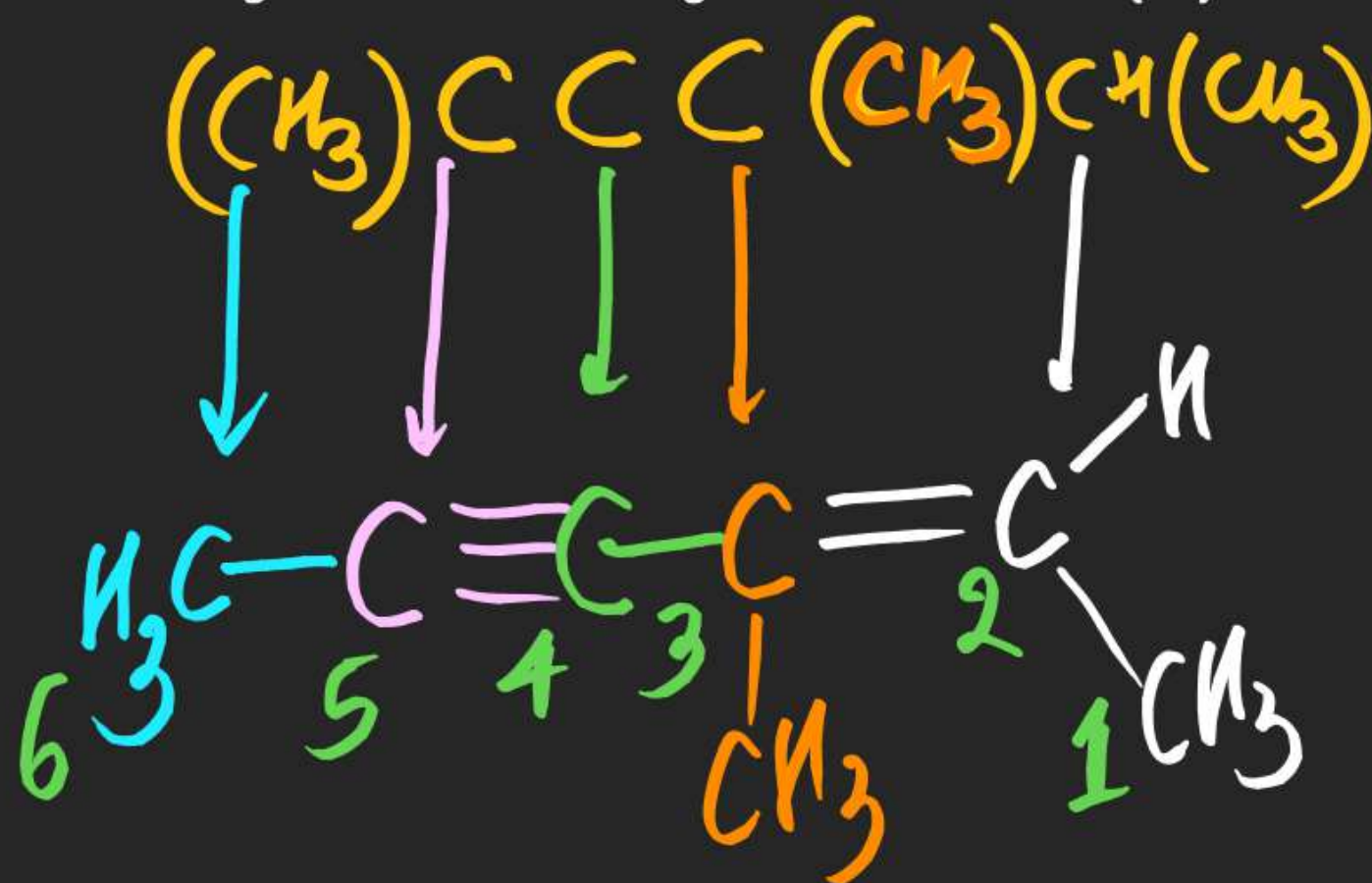
(A) 3-Methylhex-4-yn-2-ene

✓ (B) 3-Methylhex-2-en-4-yne

(C) 4-Methylhex-4-en-4-yne

(D) all are correct

Solⁿ:



CLASSIFICATION AND NOMENCLATURE

19. The IUPAC name of the following structure is

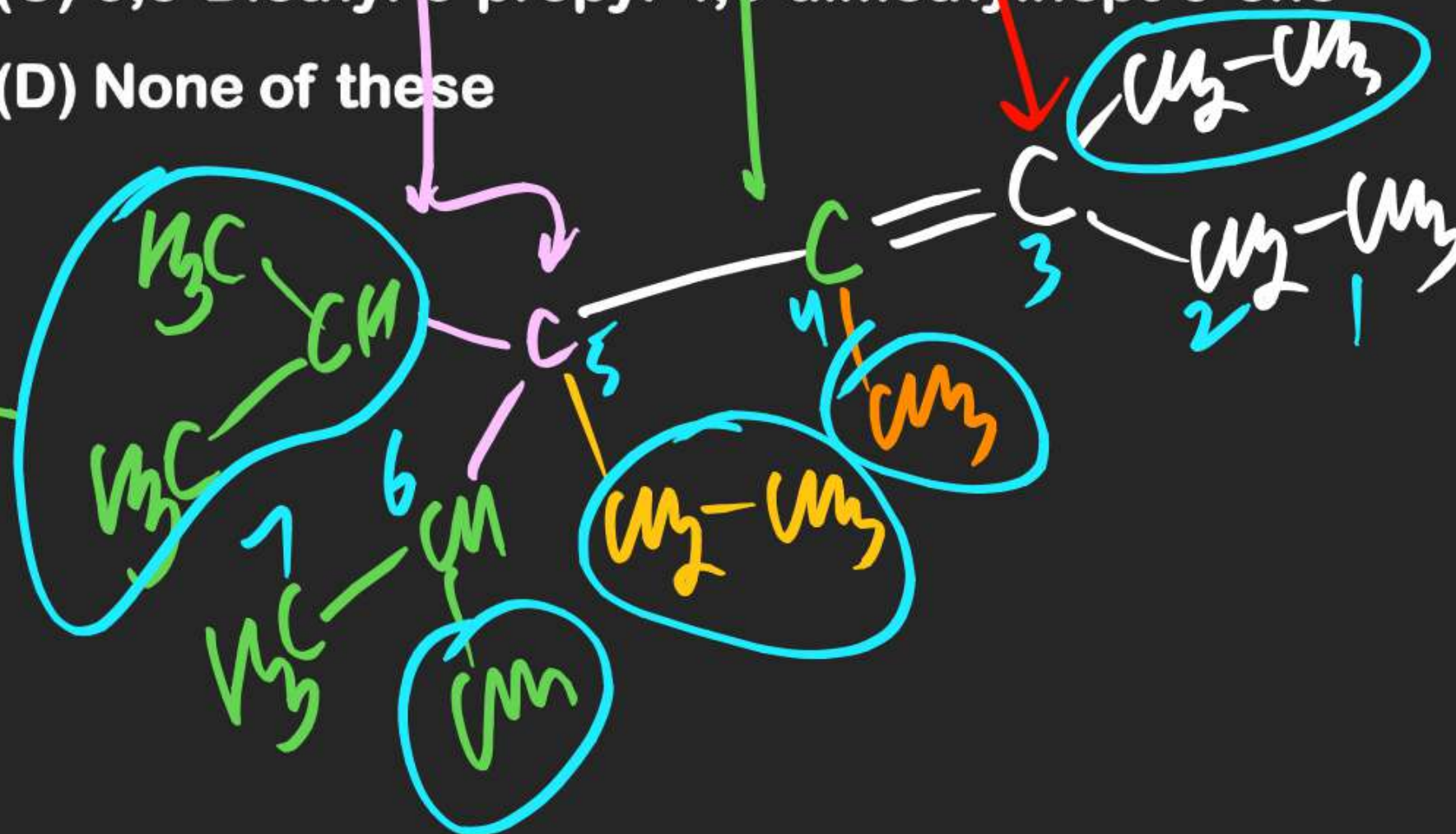


(A) 3,5-Diethyl-4,6-dimethyl-5-[1-methylethyl] hept-3-ene

(B) 3,5-Diethyl-5-isopropyl-4,6-dimethylhept-2-ene

(C) 3,5-Diethyl-5-propyl-4,6-dimethylhept-3-ene

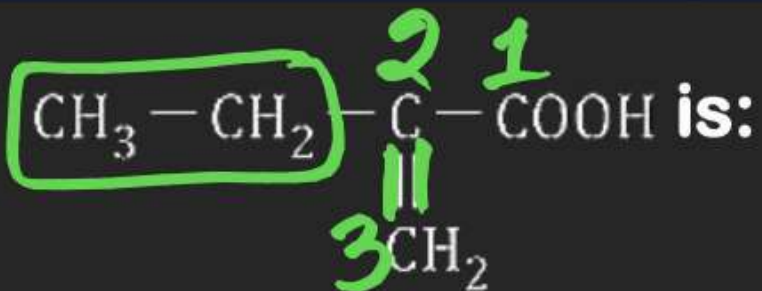
(D) None of these



CLASSIFICATION AND NOMENCLATURE

20.

The correct IUPAC name of



is:

(A) 2-Methyl butanoic acid

(B) 2-Ethylprop-2-enoic acid

(C) 2-Carboxybutene

(D) None of the above

CLASSIFICATION AND NOMENCLATURE

21. The correct IUPAC name of 2-ethylpent-3-yne is:

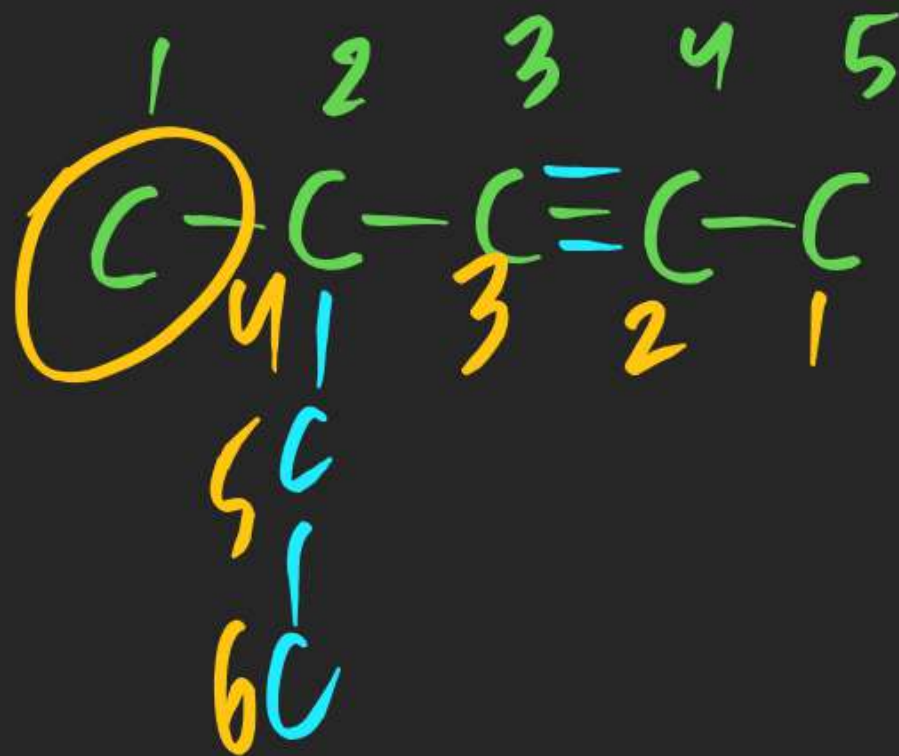
(A) 3-Methyl hex-4-yne

(B) 4-Ethyl pent-2-yne

✓ (C) 4-methyl hex-2 yne

(D) None of these

2-Ethyl Pent-3-yne



CLASSIFICATION AND NOMENCLATURE

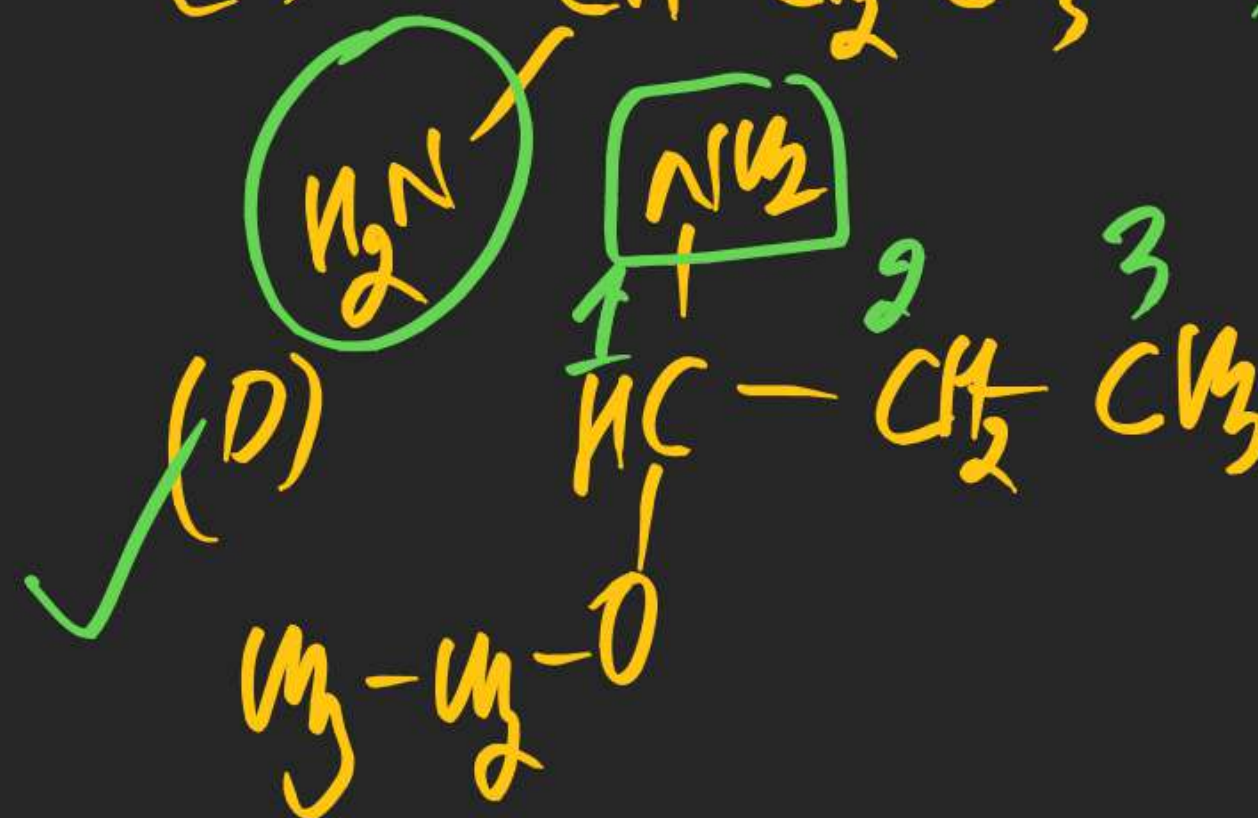
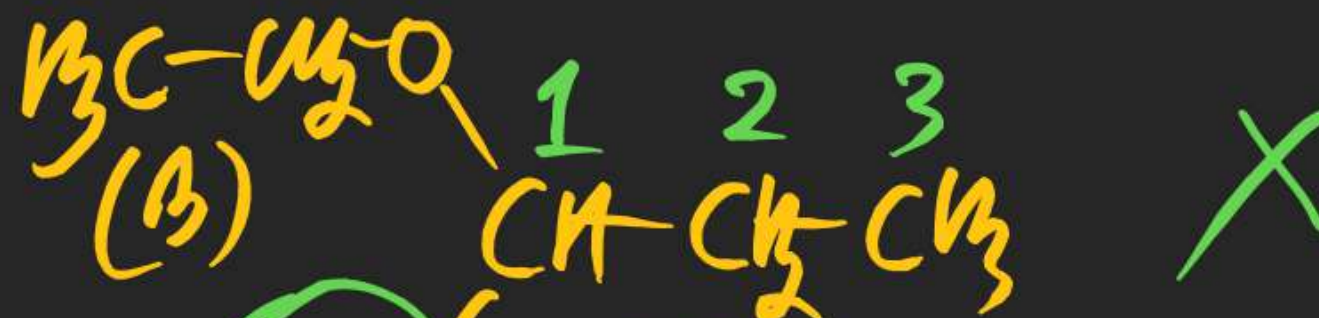
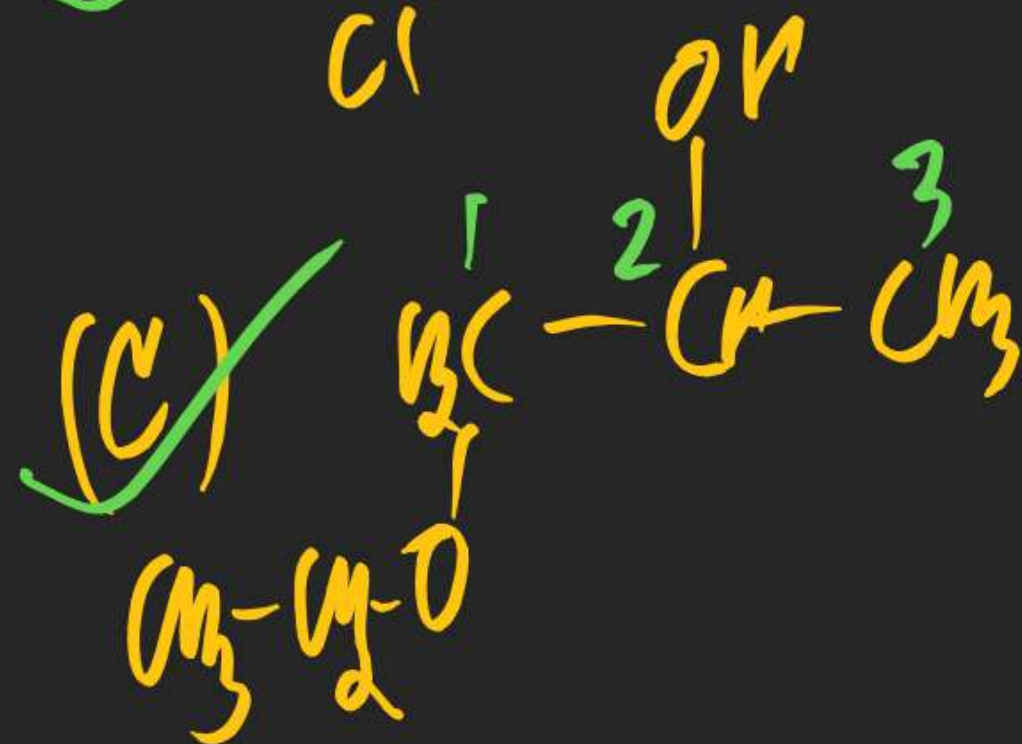
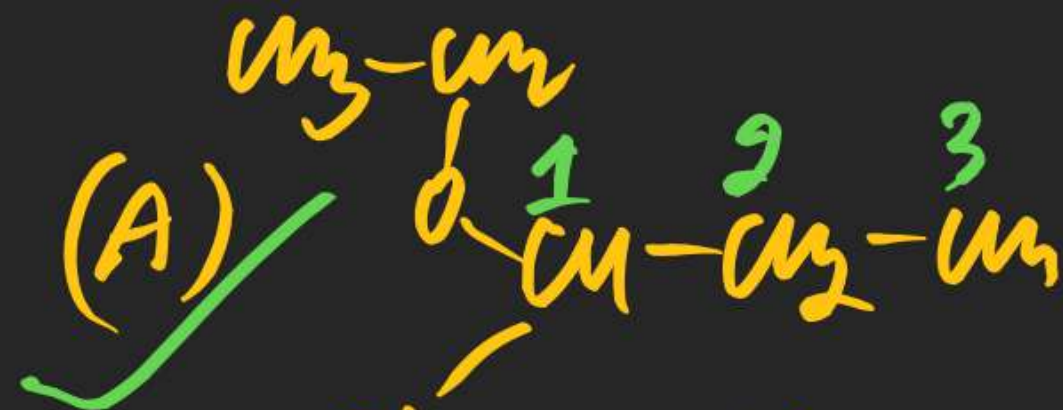
22. All the following IUPAC names are correct except:

(A) 1-Chloro-1-ethoxy propane

(B) 1-Amino-1-ethoxypropane

(C) 1-Ethoxy-2-propanol

(D) 1-Ethoxy-1-propanamine



CLASSIFICATION AND NOMENCLATURE

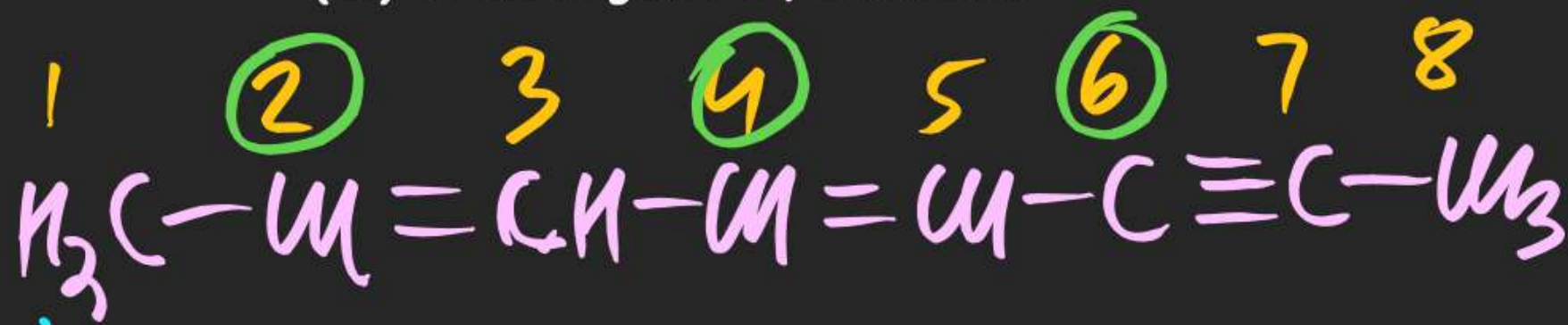
23. The IUPAC name of the compound $\text{CH}_3\text{CH}=\text{CHCH}=\text{CHC}\equiv\text{CCH}_3$ is:

(A) Octa-4,6-diene-2-yne

(B) Octa-2,4-diene-6-yne

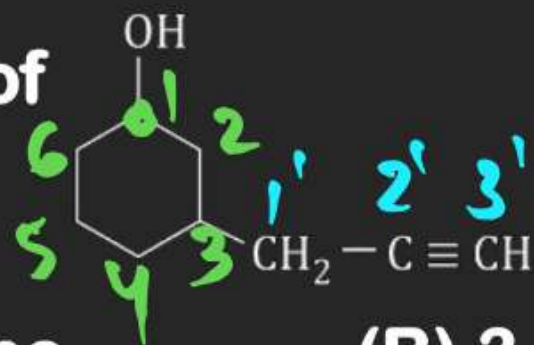
(C) Oct-2-yne-4,6-diene

(D) Oct-6-yne-2,4-diene



CLASSIFICATION AND NOMENCLATURE

24. The correct IUPAC name of



(A) 3-Cyclohexanol Propyne

(B) 3-[3-Hydroxy Cyclohexyl] Propyne

(C) 3-Propynyl Cyclohexanol

(D) 3-(2-propynyl) Cyclohexanol

CLASSIFICATION AND NOMENCLATURE

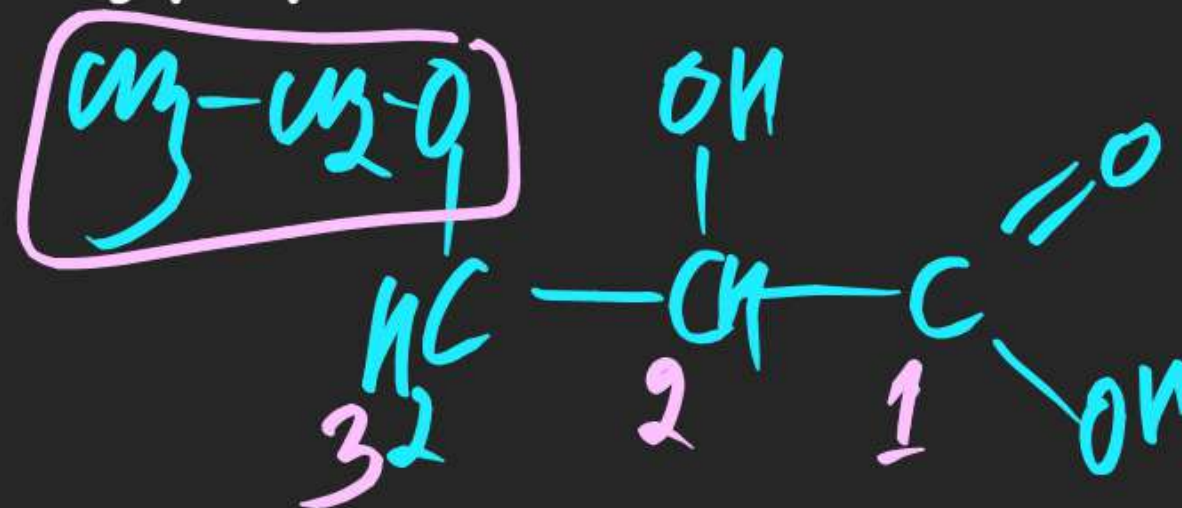
25. The IUPAC name of β -ethoxy- α -hydroxy propionic acid (trivial name) is:

(A) 1,2-Dihydroxy-1-oxo-3-ethoxy propane

(B) 1-Carboxy-2-ethoxy ethanol

✓ (C) 3-Ethoxy-2-hydroxy propanoic acid

(D) All above



CLASSIFICATION AND NOMENCLATURE

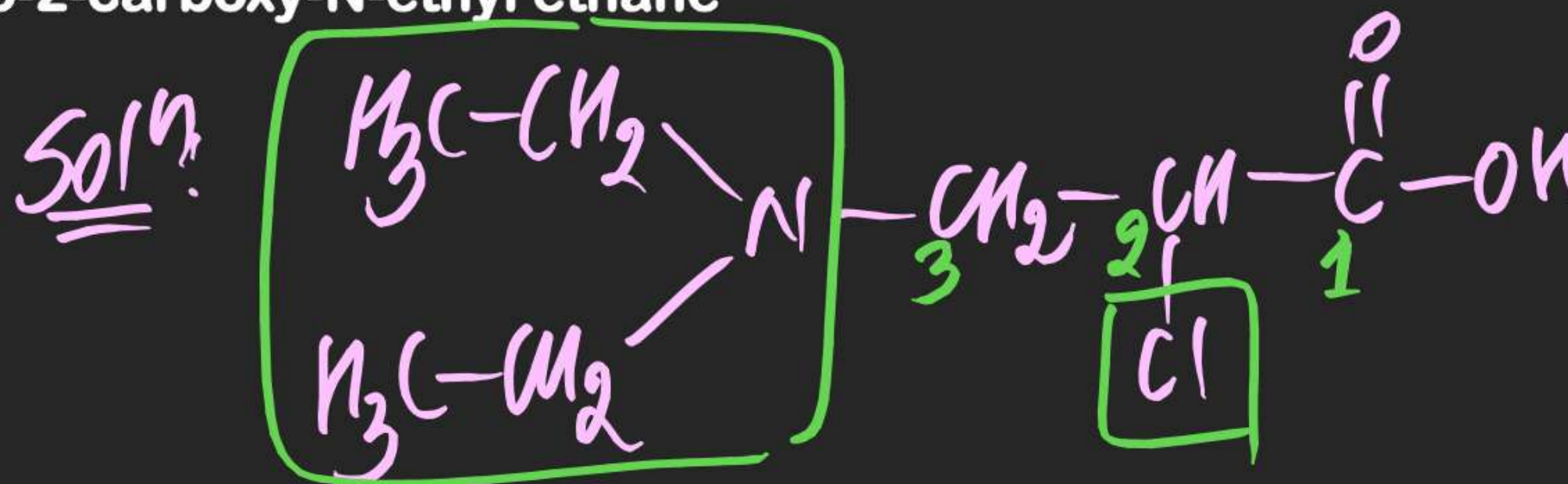
29. The IUPAC name of is $(\text{C}_2\text{H}_5)_2\text{NCH}_2\text{CH}(\text{Cl})\text{COOH}$

(A) 2-Chloro-4-N-ethylpentanoic acid

✓ (B) 2-Chloro-3-(N,N-diethyl amino)-propanoic acid

(C) 2-Chloro-2-oxo diethylamine

(D) 2-Chloro-2-carboxy-N-ethyl ethane



CLASSIFICATION AND NOMENCLATURE

30. The IUPAC name of the compound is $\text{CH}_3 - \underset{\text{CH}_3}{\underset{|}{\text{CH}}} - \overset{\text{Ph}}{\underset{|}{\text{CH}}} - \boxed{\text{NH}_2}$ Boss

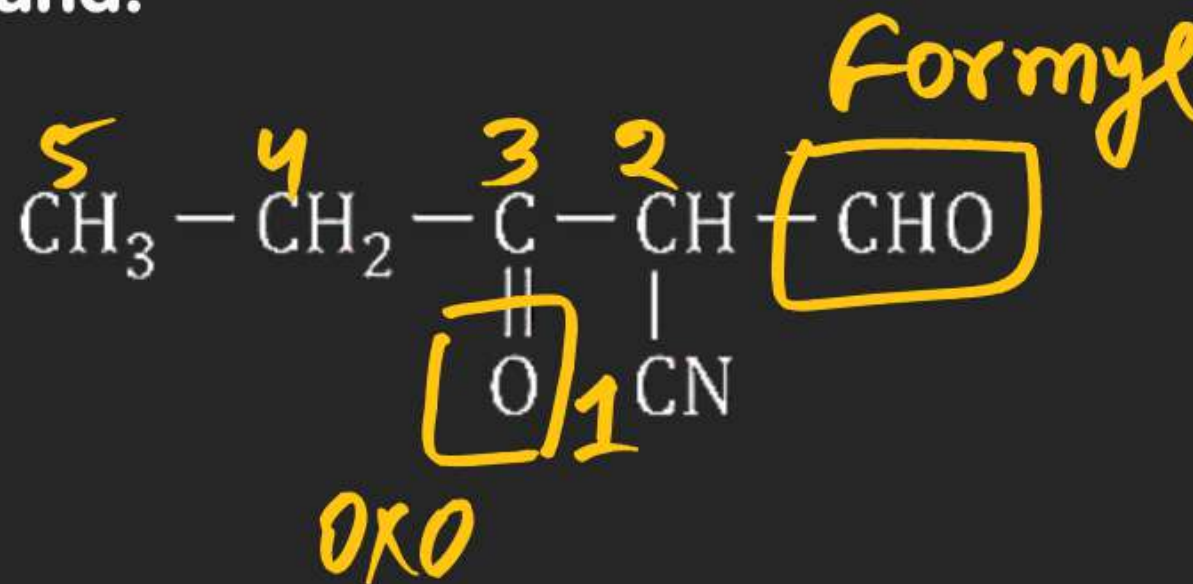
- (A) 1-Amino-1-phenyl-2-methyl propane
- (B) 2-Methyl-1-phenyl propan-1-amine
- (C) 2-Methyl-1-amino-1-phenyl propane
- (D) 1-Isopropyl-1-phenyl methyl amine



CLASSIFICATION AND NOMENCLATURE

33. The correct IUPAC name of compound:

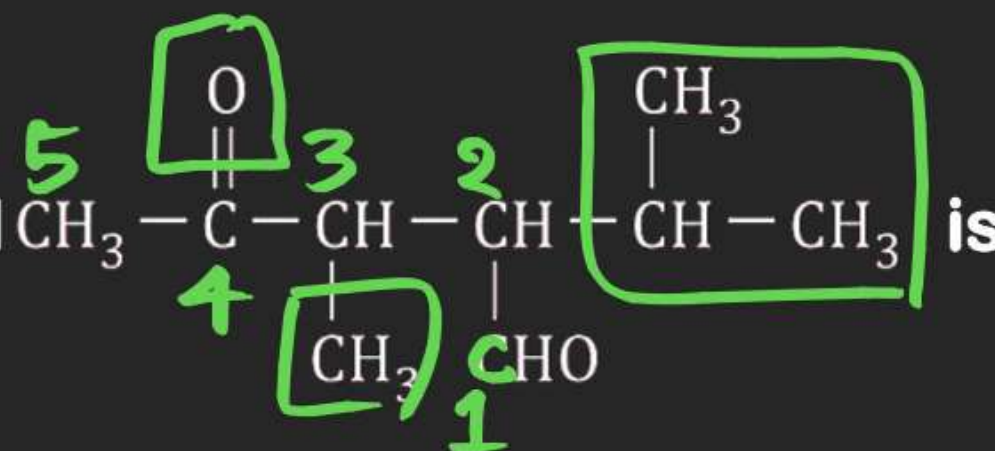
- (A) 2-Cyano-3-oxopentanal
- (B) 2-Formyl-3-oxopentanenitrile
- (C) 2-Cyanopentane-1,3-dione
- (D) 1,3-Dioxo-2-cyanopentane



CLASSIFICATION AND NOMENCLATURE

35.

The IUPAC name of compound



- (A) 3,5-Dimethyl-4-Formyl pentanone
 (B) 1-Isopropyl-2-methyl-4-oxo butanal
 (C) 2-Isopropyl-3-methyl-4-oxo pentanal
 (D) None of the above

Cinnamic Acid



CLASSIFICATION AND NOMENCLATURE

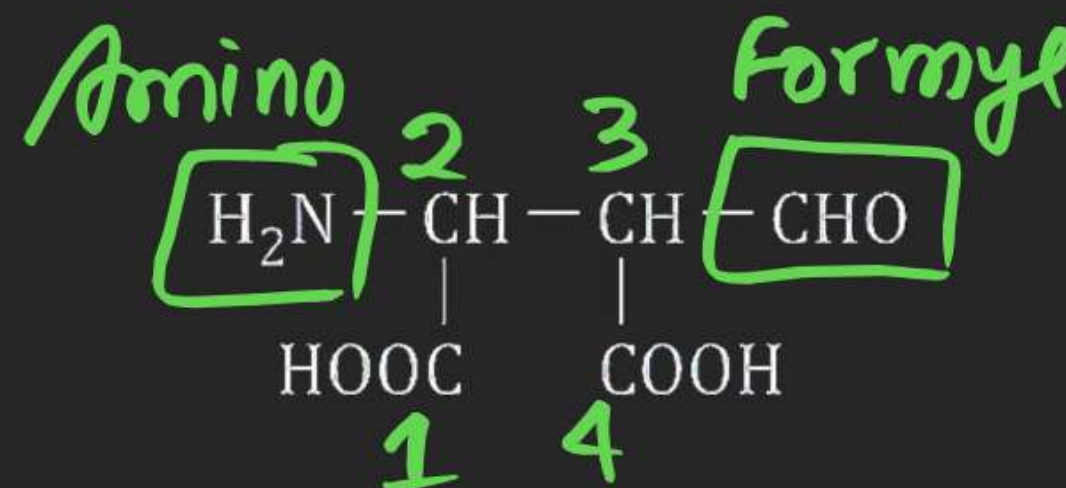
37. The IUPAC name of the structure is:

(A) 3-Amino-2-formyl butane-1, 4-dioic acid

(B) 3-Amino-2,3-dicarboxy propanal

✓ (C) 2-Amino-3-formyl butane-1, 4-dioic acid

(D) 1-Amino-2-formyl succinic acid



CLASSIFICATION AND NOMENCLATURE

38. One among the following is the correct IUPAC name of the compound

(A) N-Formyl aminoethane

(B) N-Ethyl formyl amine

✓ (C) N-Ethyl methanamide

(D) Ethylamino methanal

