



## CHEMISTRY

### BOOKS - BRILLIANT PUBLICATION

### ORGANIC CHEMISTRY: BASIC PRINCIPLES - PART I (NOMENCLATURE)

#### Level I Homework

1. How many  $1^\circ$  carbon atom will be present in a simplest hydrocarbon having two  $3^\circ$  and one  $2^\circ$  carbon atom?

A. 3

B. 4

C. 5

D. 6

**Answer:**

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2. How many carbons are in simplest alkyne having two side chains?

A. 5

B. 6

C. 7

D. 8

**Answer:**

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3. Which of the following pairs have absence of carbocyclic ring in both compounds?

A. Pyridine, Benzene

B. Benzene, Cyclohexane

C. Cyclohexane, Furan

D. Furan, Pyridine

**Answer:**

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4. The commercial name of trichloroethene is

A. Westron

B. Perclene

C. Westrosol

D. Orlone

**Answer:**





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5. How many secondary carbon atoms does methyl cyclopropane have?

A. None

B. One

C. Two

D. Three

**Answer:**



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6. The compound which has one isopropyl group is

A. 2, 2, 3, 3-Tetramethyl pentane

B. 2,2-Dimethyl pentane

C. 2, 2, 3-Trimethyl pentane

D. 2-Methyl pentane

**Answer:**

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7. Which of the following is the first member of ester homologous series?

A. Ethyl ethanoate

B. Methyl ethanoate

C. Methyl methanoate

D. Ethyl methanoate

**Answer:**

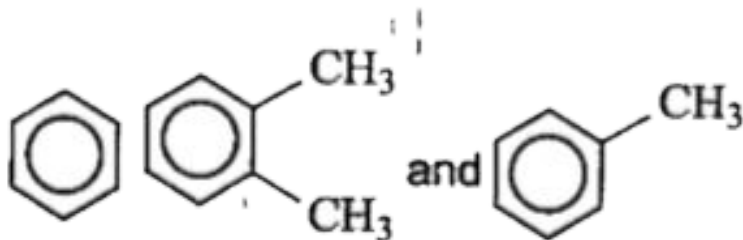
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8. The group of heterocyclic compounds is

- A. Phenol, Furan
- B. Furan, Thiophene
- C. Thiophene, Phenol
- D. Furan, Aniline

Answer:

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9.

Number of secondary carbon atoms present in the above compounds are respectively

A. 6, 4, 5

B. 4, 5, 6

C. 5, 4, 6

D. 6, 2, 1

**Answer:**



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**10.** A substance containing an equal number of primary, secondary and tertiary carbon atoms is

A. Mesityl oxide

B. Mesitylene

C. Maleic acid

D. Malonic acid

**Answer:**

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**11.** The molecular formula of the first member of the family of alkenynes and its name is given by the set

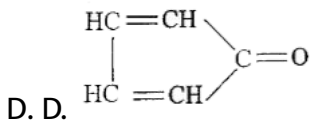
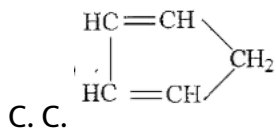
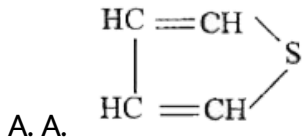
- A.  $C_3H_2$ , Alkene
- B.  $C_5H_6$ , Pent-1-en-3-yne
- C.  $C_6H_8$ , Hex-1-en-5-yne
- D.  $C_4H_4$ , Butenyne

**Answer:**

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**12.** Which of the following is a heterocyclic compound?

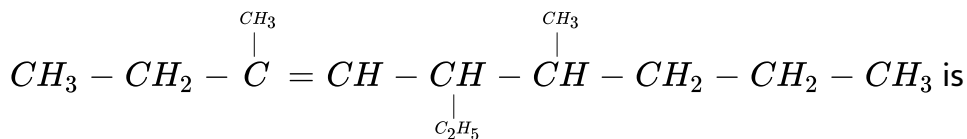




Answer:

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13. The correct IUPAC name of the compound



A. 5-Ethyl-3, 6-dimethyl non-3-ene

B. 5-Ethyl-4,7-dimethyl non-3-ene

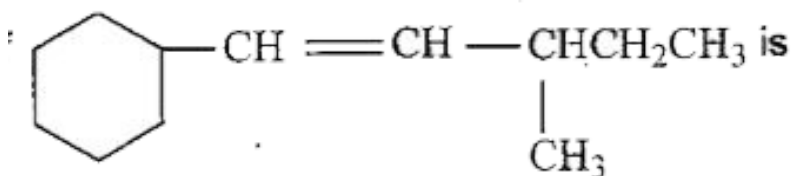
C. 4-Methyl-5, 7-diethyl oct-2-ene

D. 2,4-Ethyl-5-methyl oct-2-ene

**Answer:**

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14. The IUPAC name of



A. 1-Cyclohexyl-3-methylpent-1-ene

B. 3-Methyl-5-cyclohexylpent-1-ene

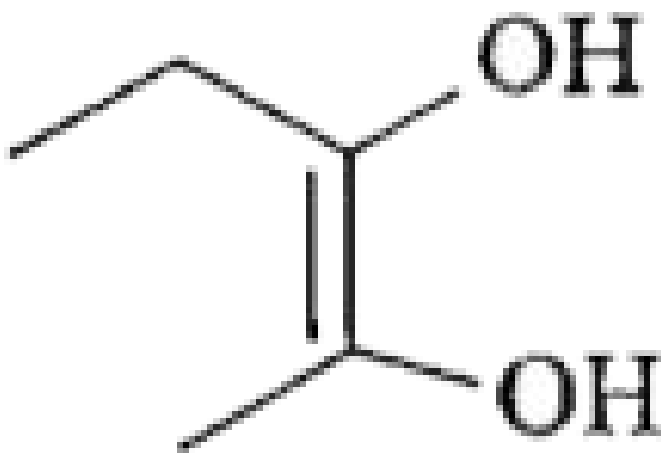
C. 1-Cyclohexyl-3-ethylbut-1-ene

D. 1-Cyclohexyl-3,4-dimethyl-but-1-ene

Answer:

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15. IUPAC name of



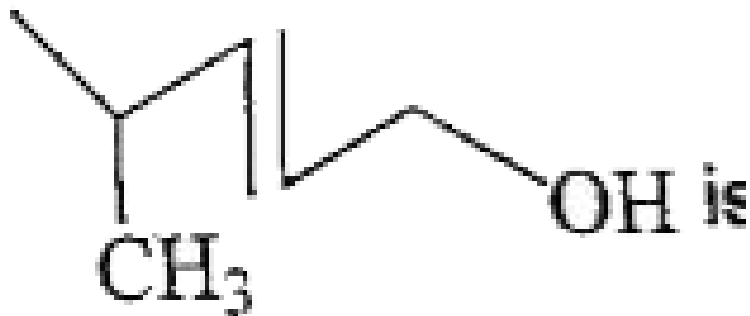
- A. But-2-ene-2, 3-diol
- B. Pent-2-ene-2, 3-diol
- C. 2-Methylbut-2-ene-2, 3-diol

D. Pent-3-ene-3, 4-diol

Answer:

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16. IUPAC name of



- A. 5-Methyl hexanol
- B. 2-Methyl hexanol
- C. 2-Methyl hex-3-enol
- D. 4-Methyl pent-2-enol

**Answer:**

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17. The IUPAC name of  $CH_3CH_2 - \underset{\substack{| \\ CH_3}}{N} - CH_2CH_3$  is

- A. N-Methyl-N-ethyl ethanamine
- B. Diethyl methanamine
- C. N-Ethyl-N-methyl ethanamine
- D. Methyl diethyl ethanamine

**Answer:**

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18. The IUPAC name of acetyl acetone is:

A. Pentane-2, 5-dione

B. Pentane-2, 4-dione

C. Hexene-2, 4-dione

D. Butane-2,4-dione

**Answer:**



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**19.** When vinyl and allyl are joined each other, we get:

A. Conjugated alkadiene

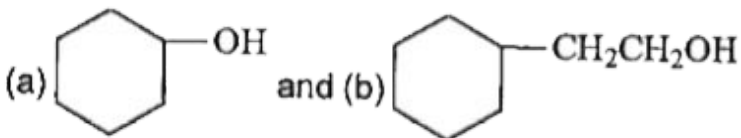
B. Cumulative alkadiene

C. Isolated alkadiene

D. Allenes

**Answer:**





20.

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

Answer:

21. The IUPAC name of the following structure



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

**Answer:**

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22. The IUPAC name of the following structure

$[CH_3CH(CH_3)]_2C(CH_2CH_3)C(CH_3)C(CH_2CH_3)_2$  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



Answer:

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23. The correct IUPAC name of  $CH_3 - CH_2 - \underset{\begin{array}{c} || \\ CH_2 \end{array}}{C} - COOH$  is

- A. 2-Methyl butanoic acid
- B. 2-Ethylprop-2-enoic acid
- C. 2-Carboxybutene
- D. None of the above

Answer:

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24. 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

**Answer:**

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25. The IUPAC name of the compound Glycerine  $\underset{\text{OH}}{\text{CH}_2} - \underset{\text{OH}}{\text{CH}} - \underset{\text{OH}}{\text{CH}_2}$  is

A. 1, 2, 3-Tri hydroxy propane

B. 3-Hydroxy pentane-1,5-diol

C. 1, 2, 3-Hydroxy propane

D. Propane-1, 2, 3-triol

**Answer:**

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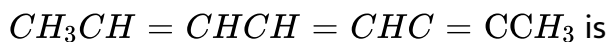
26. All the following IUPAC names are correct except

- A. 1-Chloro-1-ethoxy propane
- B. 1-Amino-1-ethoxypropane
- C. 1-Ethoxy-2-propanol
- D. 1-Ethoxy-1-propanamine

Answer:

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27. The IUPAC name of the compound



- 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

**Answer:**

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28.  $C_3H_6Br_2$  can show

A. Two gem dibromide

B. Three vic dibromide

C. Two tert. dibromo alkane

D. Two sec. dibromo alkane

**Answer:**

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29. The IUPAC name of  $\beta$ -ethoxy- $\alpha$ -hydroxypropionic acid (Trivial name) is

1,2-Dihydroxy-1-oxo-3-ethoxy propane

1-Carboxy-2-ethoxy ethanol

3-Ethoxy-2-hydroxy propanoic acid

All above

A. 1,2-Dihydroxy-1-oxo-3-ethoxy propane

B. 1-Carboxy-2-ethoxy ethanol

C. 3-Ethoxy-2-hydroxy propanoic acid

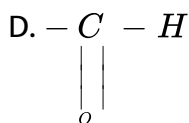
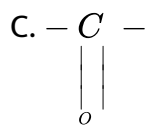
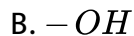
D. All above

**Answer:**



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30. As per IUPAC rules, which one of the following groups, will be regarded as the principal functional group?



Answer:

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31. The IUPAC name of the compound  $Br(Cl)CICF_3$  is

A. 2-Bromo-2-chloro-2-iodo-1, 1, 1-trifluoroethane

B. 1, 1, 1-Trifluoro-2-bromo-2-chloro-2-iodo ethane

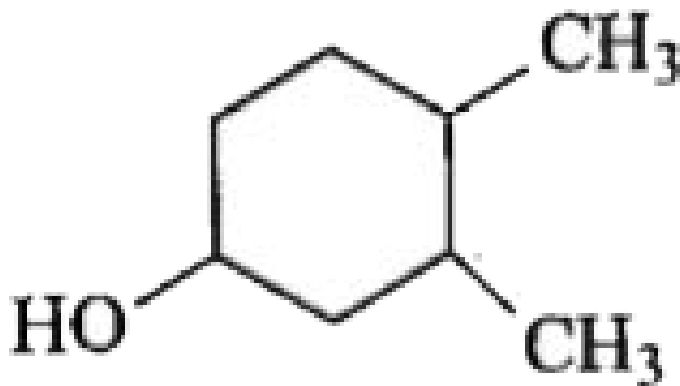
C. 2-Bromo-2-chloro-1, 1, 1-trifluoro-2-iodo ethane

D. 1-Bromo-1-chloro-2,2,2-trifloro-1-iodo ethane

**Answer:**

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32. The IUPAC name of the given compound



A. 1, 1-Dimethyl-3-hydroxy cyclohexane

B. 3,3-Dimethyl-1-hydroxy cyclohexane

C. 3,4-Dimethyl cyclohexanol

D. 1, 1-Dimethyl cyclohexan-3-ol

Answer:

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33. Which of the following compound is wrongly named?

$\text{C H}_3 \text{ C H}_2 \text{ C H}_2 \text{ C H}(\text{C l}) \text{ C O O H}$  : 2-chloro hex-3-enoic acid

$\text{CH}_3\text{CH}_2\text{C}\equiv\text{CCH}(\text{CH}_3)\text{COOH}$ : 2-Methyl hex-3-enoic acid

$\text{CH}_3\text{CH}_2\text{CH}=\text{CHCOCH}_3$  : Hex-3-en-2-one

$\text{CH}_3-\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_2\text{CHO}$ : 4-Methyl pentanal

A.  $\text{CH}_3\text{CH}_2\text{CH}_2\underset{\text{Cl}}{\text{CH}}\text{COOH}$  : 2-chloro hex-3-enoic acid

B.  $\text{CH}_3\text{CH}_2\text{C}\equiv\underset{\text{CH}_3}{\text{C}}\text{CHCOOH}$  : 2-Methyl hex-3-enoic acid

C.  $\text{CH}_3\text{CH}_2\text{CH}=\text{CHCOCH}_3$  : Hex-3-en-2-one

D.  $\text{CH}_3-\underset{\text{CH}_3}{\text{C}}\text{HCH}_2\text{CH}_2\text{CHO}$  : 4-Methyl pentanal

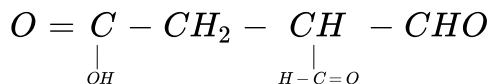
Answer:





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34. The correct IUPAC name of the following compound is



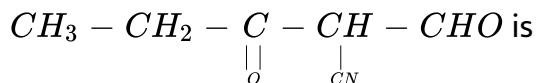
- A. 3,3-Diformylpropanoic acid
- B. 3-Formyl-4-oxo-butanoic acid
- C. 3,3-Dioxo propanoic acid
- D. 3,3-Dicarbalddehyde propanoic acid

Answer:



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35. The correct IUPAC name of compound



A. 2-Cyano-3-oxopentanal

B. 2-Formyl-3-oxopentanenitrile

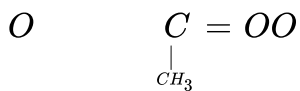
C. 2-Cyanopentane-1, 3-dione

D. 1,3-Dioxo-2-cyanopentane

**Answer:**

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**36.** IUPAC name of



A. Methyl-2,2-bis (1-oxoethyl)ethanoate

B. 2,2-Bis(1-oxoethyl)-1-methoxyethanone

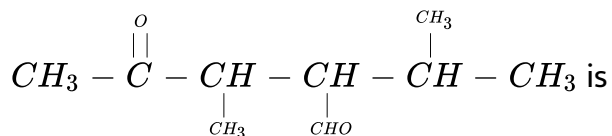
C. Methyl-2(1-oxoethyl)-3-oxobutanoate

D. Methyl-2-acetyl-3-oxo butanoate

Answer:

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37. 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

Answer:

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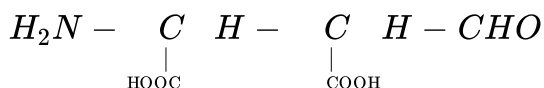
38. The IUPAC name of compound  $CH_3 - \overset{HO-C=O}{\underset{|}{C}} = \underset{NH_2}{\underset{|}{C}} - \overset{CH_3}{\underset{Cl}{\underset{|}{C}}} - H$  is

- A. 2-Amino-3-chloro-2-methyl pent-2-enoic acid
- B. 3-Amino-4-chloro-2-methylpent-2-enoic acid
- C. 4-Amino-3-chloro-2-methylpent-2-enoic acid
- D. All of the above

Answer:

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39. 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

**Answer:**

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40. One among the following is the correct IUPAC name of the

compound  $CH_3CH_2 - \overset{H}{\underset{|}{N}} - CHO$  identify it

A. N-formyl aminoethane

B. N-ethyl formyl amine

C. N-Ethyl methanamide

D. Ethylamino methanal

**Answer:**

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41. The number of primary, secondary and tertiary amines possible with the molecular formula  $C_3H_9N$  is

A. 1, 2, 3

B. 1, 2, 1

C. 2, 1, 1

D. 3, 0, 1

Answer:



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42. The IUPAC name of  $C_6H_5CH = CH - COOH$  is

A. Cinnamic acid

B. 1-Phenyl-2-carboxy ethane

C. 3-Phenyl prop-2-enoic acid

D. Dihydroxy-3-phenyl propionic acid

**Answer:**

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43. The IUPAC name of  $BrCH_2 - \underset{\substack{| \\ CONH_2}}{CH} - CO - CH_2 - CH_2CH_3$  is

- A. 2-Bromomethyl-3-oxohexanamide
- B. 1-Bromo-2-amino-3-oxohexane
- C. 1-Bromo-2-amino-n-propyl ketone
- D. 3-Bromo-2-propyl propanamide

**Answer:**

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44. IUPAC name of  $\underset{\text{CN}}{\text{CH}_2} - \underset{\text{CN}}{\text{CH}} - \underset{\text{CN}}{\text{CH}_2}$  is

- A. 1, 2, 3-Tricyano propane
- B. Propane-1, 2, 3-trinitrile
- C. 1, 2, 3-Cyano propane
- D. Propane-1, 2, 3-tricarbonitrile

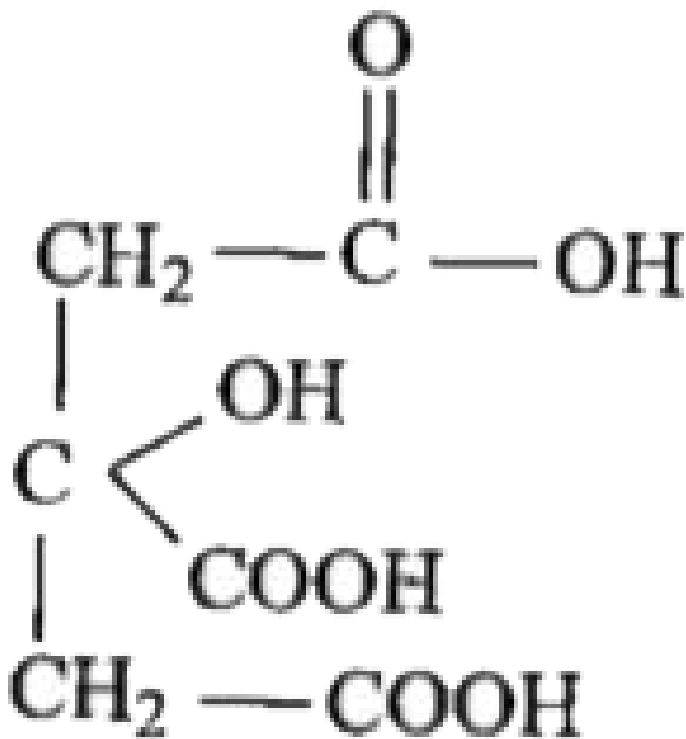
**Answer:**



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45. The IUPAC name of compound



is

- A. 1, 2, 3-Tricarboxypropan-2-ol
- B. 2-Hydroxy propane-1, 2, 3-tricarboxylic acid
- C. 3-Hydroxy-3-carboxypentane-1, 5-dioic acid

D. None of these

**Answer:**

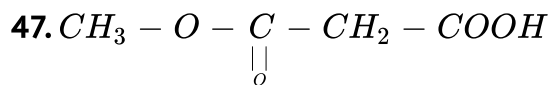
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46. The IUPAC name of  $CH_3 - \underset{\text{O}}{\underset{||}{C}} - O - CH_2 - \underset{\text{O}}{\underset{||}{C}} - OH$  is

- A. 1-Acetoxy acetic acid
- B. 2-Acetoxy ethanoic acid
- C. 2-Ethanoyloxyacetic acid
- D. 2-Ethanoyloxyethanoic acid

**Answer:**

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The correct IUPAC systematic name of the above compound is

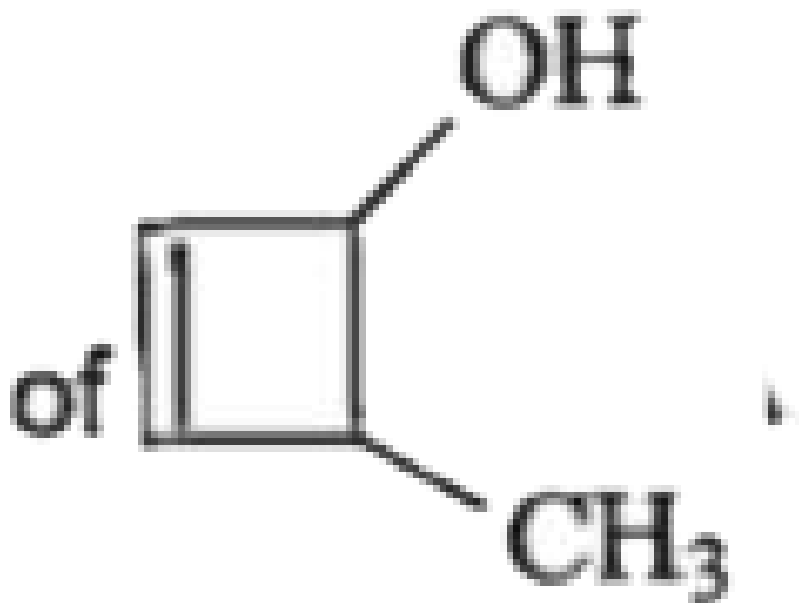
- A. 2-Acetoxy ethanoic acid
- B. 2-Methoxy carbonyl ethanoic acid
- C. 3-Methoxy formyl ethanoic acid
- D. 2-Methoxy formyl acetic acid

**Answer:**



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48. The IUPAC name of



is

A. 3-Methyl cyclobut-1-ene-2-ol

B. 4-Methyl cyclobut-2-ene-1-ol

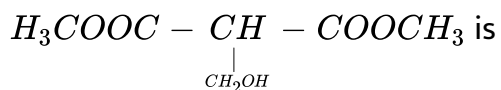
C. 4-Methyl cyclobut-1-ene-3-ol

D. 2-Methyl cyclobut-3-ene-1-ol

**Answer:**

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**49.** The IUPAC name of compound

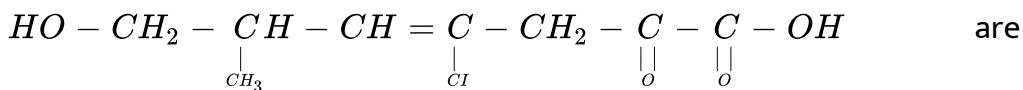


- A. 2-(hydroxyl methyl) methyl propanedioate
- B. Dimethyl-2-(hydroxy methyl) propanedioate
- C. 2-(Hydroxy methyl) dimethyl propanedioate
- D. None of these

**Answer:**

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50. The suffix of the principal group, the prefixes for the other groups and the name of the parent in the structure



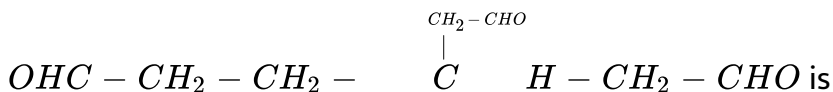
respectively

- A. -oic acid, chloro, hydroxy, oxo, methyl, hept-4-ene
- B. -oic acid, chloro, hydroxy, methyl, oxo, hept-4-ene
- C. -one, carboxy, chloro, methyl, hydroxy, hept-4-ene
- D. -one, carboxy, chloro, methyl, hydroxy, hept-4-ene

Answer:

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51. The IUPAC name of



- A. 4,4-Di (formal methyl) butanal
- B. 2-(formyl methyl)butane-1, 4-dicarbaldehyde
- C. Hexane-3-acetal-1, 6-dial
- D. 3-(formyl methyl)hexane-1,6-dial

**Answer:**

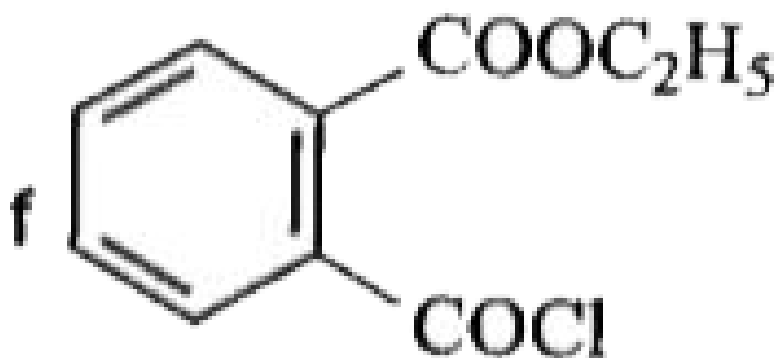
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52. Which of the following is crotonic acid?

- A.  $CH_2 = CH - COOH$
- B.  $C_8H_5 - CH = CH - COOH$
- C.  $CH_3 - CH = CH - COOH$
- D.  $\begin{array}{c} C \quad H - COOH \\ || \\ CH - COOH \end{array}$

**Answer:**

53. The IUPAC name of



is

- A. 2-chlorocarbonyl ethylbenzoate
- B. 2-Carboxyethyl benzoyl chloride
- C. Ethyl-2-(chlorocarbonyl) benzoate
- D. Ethyl-1-(chlorocarbonyl) benzoate

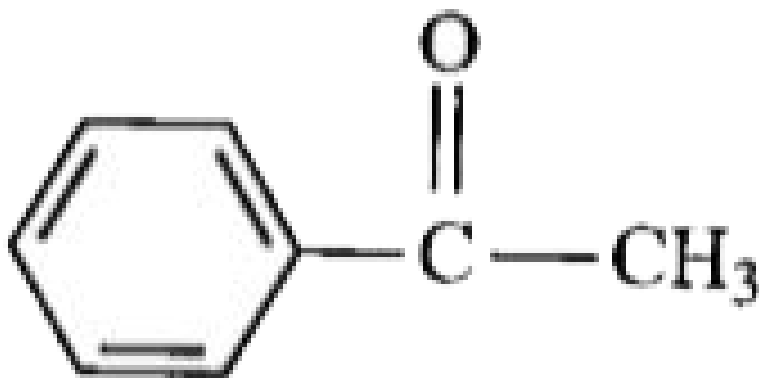
**Answer:**





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54. The IUPAC name of



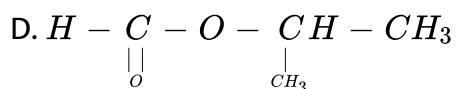
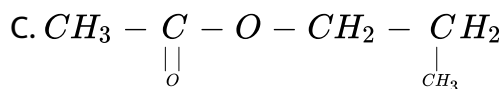
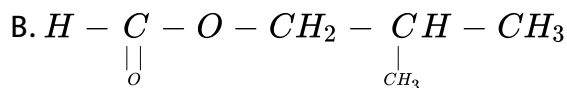
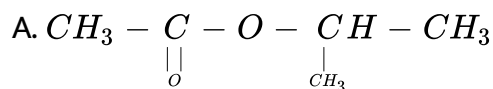
is

- A. Phenyl ethanone
- B. Methyl phenyl ketone
- C. Acetophenone
- D. Phenyl methyl ketone

Answer:

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55. Structural formula of isopropyl methanoate is



Answer:

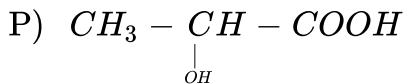
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56. Which of the following is not correctly matched?

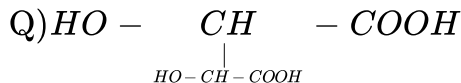
Column-I

Column-II

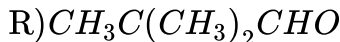
1) Lactic acid



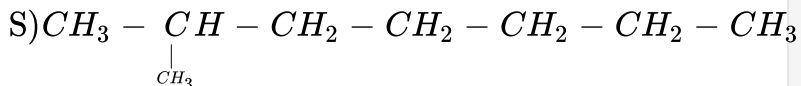
2) Tartaric acid



3) Pivaldehyde



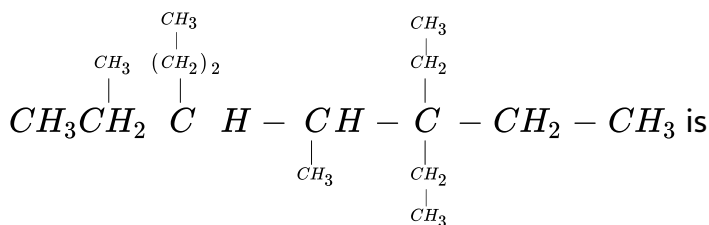
4) Iso-octane



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Level II

1. The IUPAC name of the compound



A. 5-methyl-4-isopropyl-6,6-diethyl octane

B. 3,3-dimethyl-3-ethyl-5-isopropyl octane

C. 3,3-diethyl-4-methyl-5 (1, 1-dimethyl) octane

D. 3,3-diethyl-4-methyl-5 (1-methylethyl) octane

**Answer:**

 [Watch Video Solution](#)

2. The IUPAC name of  $CH_3 - CH_2 - \underset{\underset{CH_3}{|}}{C} - \overset{\overset{H}{|}}{\underset{\underset{CH_3}{|}}{C}} - CH_3$  is

A. 3,4,4-trimethylheptane

B. 3,4,4-trimethyl octane

C. 2-butyl-2-methyl-3-ethylbutane

D. 2-ethyl-3,3-dimethylheptane

**Answer:**

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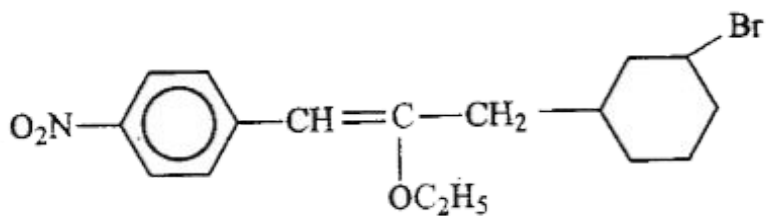
3. 1°, 2°, 3° and 4° carbon atoms are present in

- A. 2,2,3-trimethylpentane
- B. 2,3,4-trimethylpentane
- C. 2,2,3,3-tetramethylpentane
- D. 2,4-dimethylhexane

Answer:

[▶ Watch Video Solution](#)

4. IUPAC name of



is

A. 2-ethoxy-3-(3-bromocyclohexyl)-1-(4-nitrophenyl) prop-1-ene

B. 2-ethoxy-1-(3-Bromophenyl)-3-(4-nitrophenyl) prop-2-ene

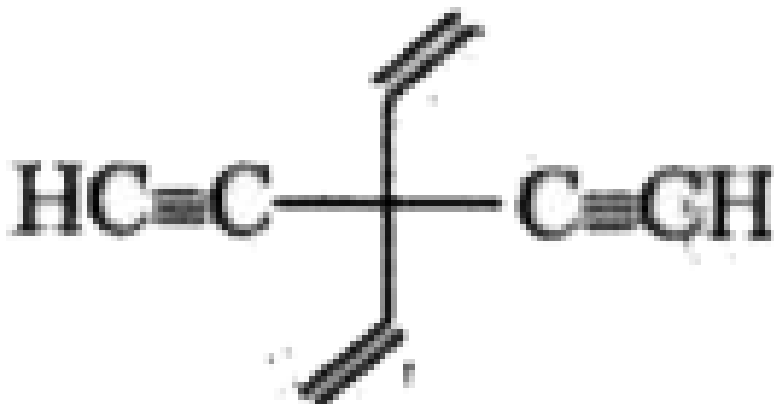
C. 3-(3-Bromocyclohexyl)-2-ethoxy-1-(4-nitrophenyl) prop-1-ene

D. 3-(5-Bromocyclohexyl)-2-ethoxy-1-(4-nitrophenyl) prop-1-ene

**Answer:**

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5. What is the IUPAC name of



is

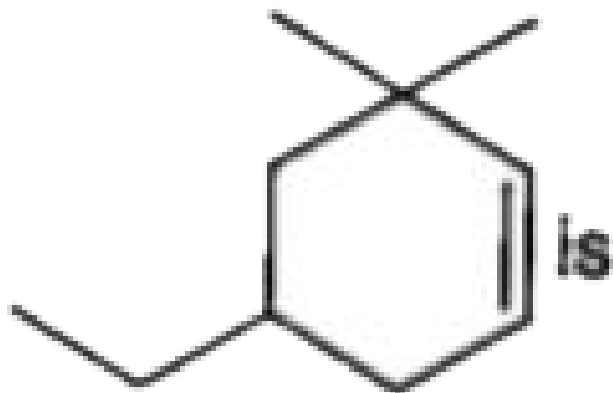
- A. 3,3-Diethynylpenta-1,4,diene
- B. 3,3-Dlethylpenta-1,4,diyne
- C. 3,3-Diethynyl-3,3-diethynylmethane
- D. 3-Ethenyl-3-ethynylpent-1-en-4-yne

**Answer:**



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6. The IUPAC name of



is

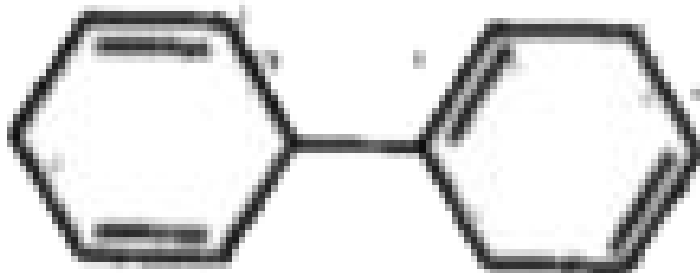
- A. 4-ethyl-5,5-trimethyl cyclohexene
- B. 5-ethyl-3,3-dimethylcyclohexene
- C. 3-ethyl-5,5-dimethylcyclohex-2-ene
- D. 6-ethyl-4,4-dimethylcyclohexene

**Answer:**

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7. What is the IUPAC name of



is

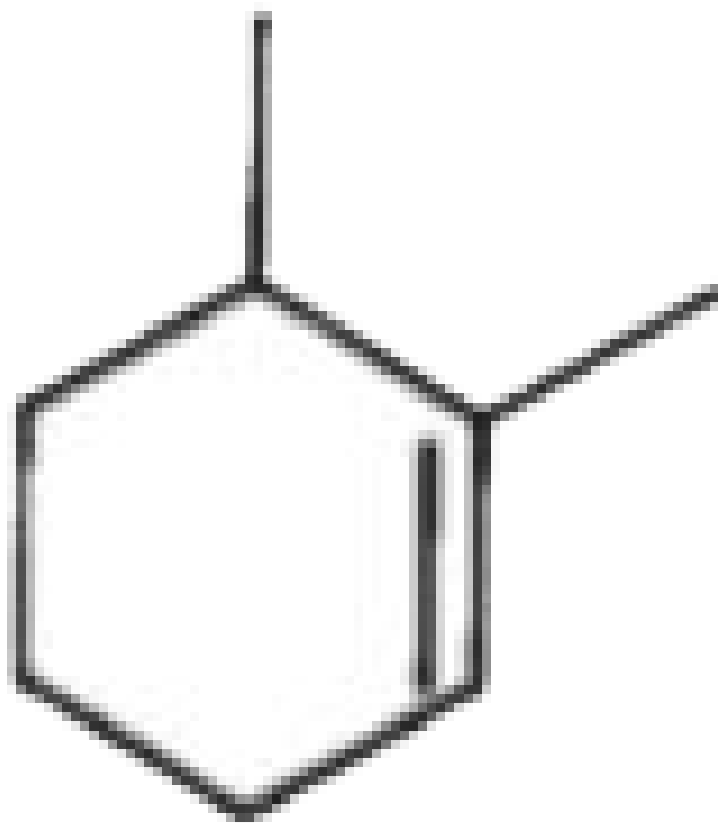
- A. 3-cyclohexa-1,4-dienylcyclohexa-1,4-diene
- B. Bis-cyclohexa-1,4-diene
- C. 1-cyclohexa-2,5-dienylcyclohexa-1,4-diene
- D. None of these

**Answer:**



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8. The IUPAC name of



is

A. 2,3-dimethylcyclohexene

B. 1,2-dimethylcyclohex-2-ene

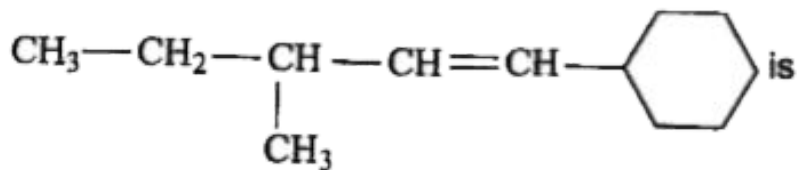
C. 1,6-dimethylcyclohexene

D. None of these

**Answer:**

 [Watch Video Solution](#)

9. The IUPAC name of



is

A. 3-methyl-5-cyclohexylpent-4-ene

B. 1-cyclohexyl-3,4-dimethylbut-1-ene

C. 1-cyclohexyl-3-methylpent-1-ene

D. 1-cyclohexyl-3-ethylbut-1-ene

Answer:

 Watch Video Solution

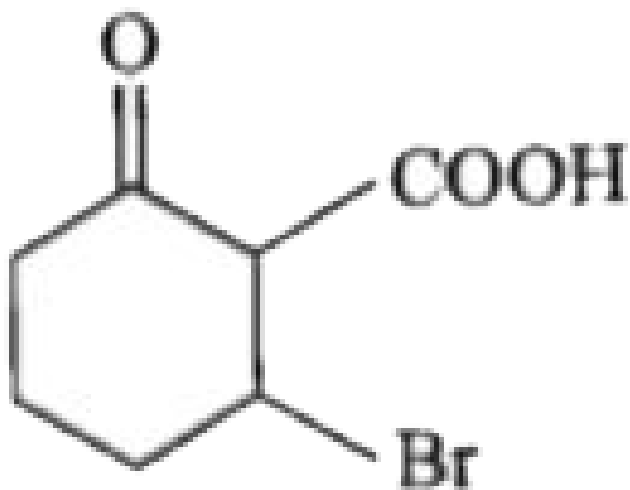
10. The systematic name for  $HO - \underset{\text{O}}{\underset{||}{C}} - \underset{CH_3}{C} = \underset{NH_2}{C} - \underset{Cl}{CH} - CH_3$  is

- A. 2-methyl-3-amino-4-chloro-2-pentenoic acid
- B. 1-hydroxy-1-oxo-2-methyl-3-amino-4-chloro-2 pentene
- C. 3-amino-4-chloro-2-methyl-2-pentenoic acid
- D. 3-amino-2,4-dimethyl-4-chloro-2-butenic acid

Answer:

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11. The IUPAC name of



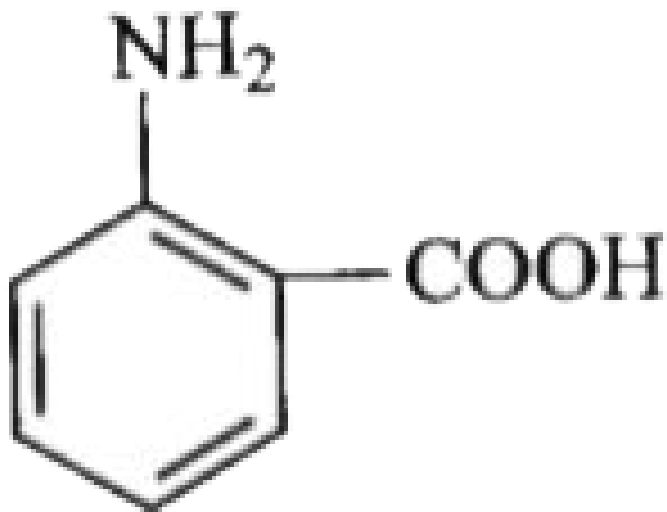
is

- A. 2-oxo-6-bromo cyclohexanoic acid
- B. 2-bromo-6-oxo cyclohexanoic acid
- C. 2-bromo-6-oxo cyclohexane carboxylic acid
- D. 2-oxo-6-bromo cyclohexane carboxylic acid

**Answer:**

 [Watch Video Solution](#)

12. The IUPAC name of



is

- A. 1-amino-2-carboxybenzene
- B. 2-amino-1-carboxybenzene
- C. 1-amino benzene-2-carboxylic acid
- D. 2-aminobenzoic acid

Answer:

 [Watch Video Solution](#)

13. IUPAC name of  $\begin{array}{c} C H_2 \\ | \\ COOH \end{array} - \begin{array}{c} C H \\ | \\ COOH \end{array} - \begin{array}{c} C H_2 \\ | \\ COOH \end{array}$

A. Propane - 1, 2, 3 - tricarboxylic acid

B. Propane - 1, 2, 3 - trioic acid

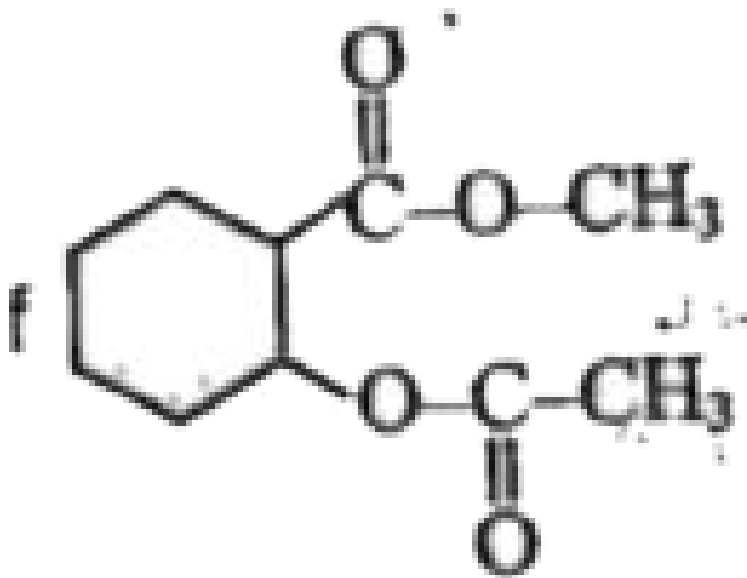
C. 3- Carboxypentaine - 1,5 -dioic acid

D. Propane - 1, 2, 3 - tricarboic acid

Answer:

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14. What is the IUPAC name of



- A. Methyl 2-ethanoyloxycyclohexan-1-oate
- B. Dimethylcyclohexane-1,2-dicarboxylate
- C. 2-Methoxycarbonylcyclohexylethanoate
- D. Methyl 2-ethanoyloxycyclohexane-1-carboxylate

Answer:





15. IUPAC name of Adipic acid is

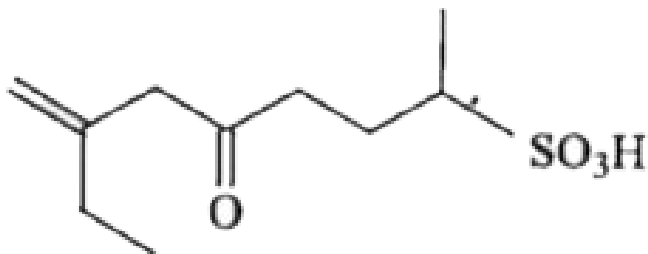
- A. Butane-1,4-dioic acid
- B. Pentane-1,5-dioic acid
- C. Hexane-1,6-dioic acid
- D. Heptane-1-dioic acid

**Answer:**



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16. The correct IUPAC name of



SO<sub>3</sub>H

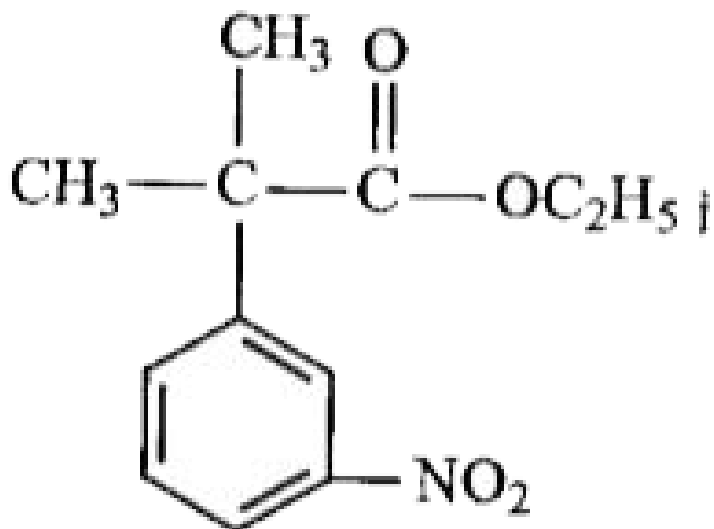
- A. 6-ethyl-1-methyl-4-oxohept-6-ene-1-sulphonic acid
- B. 7-ethyl-5-oxooct-7-ene-2-sulphonic acid
- C. 2-ethyl-7-sulphoct-1-ene-4-one
- D. 7-methylene-5-oxononane-2-sulphonic acid

**Answer:**



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17. IUPAC name of

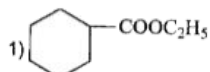


is

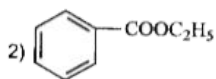
- A. Ethyl 3-(3-nitrophenyl)-3-methyl propanoate
- B. Ethyl 2-methyl-2-(3-nitrophenyl)propanoate
- C. Ethyl 2,2-dimethyl-3-nitrophenyl ethanoate
- D. 3-(3-nitrophenyl)-3-methyl ethyl propanoate

**Answer:**

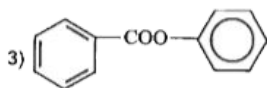
18. Which is incorrectly named



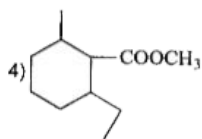
Ethyl cyclohexane carboxylate



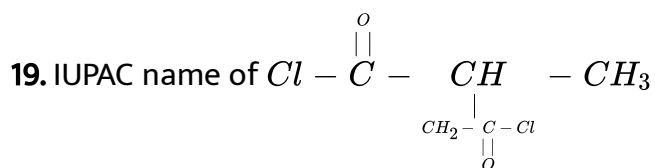
Ethyl benzoate



Phenyl benzoic acid



Methyl 2-ethyl-6-methyl cyclohexane carboxylate



A. 3-methyl butanedioyl chloride

B. 2-chloroformyl butanoyl chloride

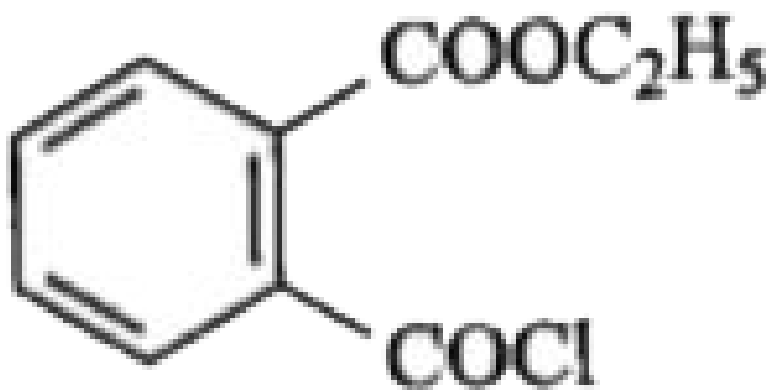
C. 4-chloro formyl butanoyl chloride

D. 2-methyl butane dioyl dichloride

**Answer:**

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20. The IUPAC name of



is

A. 2-chlorocarbonyl ethylbenzoate

B. 2-carboxy ethyl benzyl chloride

C. Ethyl-2-(chloro carbonyl) benzoate

D. Ethyl-1-(chloro carbonyl) benzoate

**Answer:**

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21. The compound,  $CH_3 - \underset{\substack{| \\ COOC_2H_5}}{C} = CH - COOH$  is

A. 2-carbo ethoxy-1-carboxyprop-1-ene

B. 3-carboethoxybut-2-en-1-oic acid

C. 3-(ethoxycarbonyl) but-2-enoic acid

D. 2-carboethoxy-3-carboxyprop-2-ene

**Answer:**

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## 22. Hippuric acid



has IUPAC

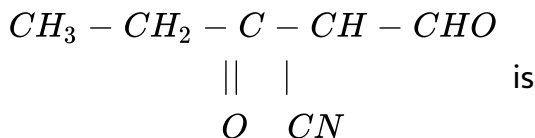
name

- A. 2-Phenyl carbamyl ethanoic acid
- B. N-Carboxymethylbenzamide
- C. N-Benzoyl ethanoic acid
- D. Benzyl glycine

**Answer:**

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23. The correct IUPAC name of compound



A. 2-Cyano-3-oxopentanal

B. 2-Formyl-3-oxopentanenitrile

C. 2-Cyano-1,3-pentanedione

D. 1,3-Dioxo-2-cyanopentane

**Answer:**



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24. IUPAC name of  $\underset{\text{CN}}{\text{CH}_2} - \underset{\text{CN}}{\text{CH}} - \underset{\text{CN}}{\text{CH}_2}$  is

A. 1,2,3-Tricyano propane

B. Propane-1,2,3-trinitrile

C. 1,2,3-Cyano propane

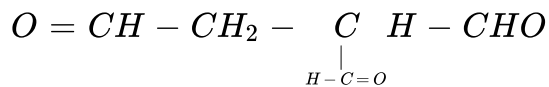
D. Propane-1,2,3-tricarbonitrile

**Answer:**



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25. The correct IUPAC name of the following compound is

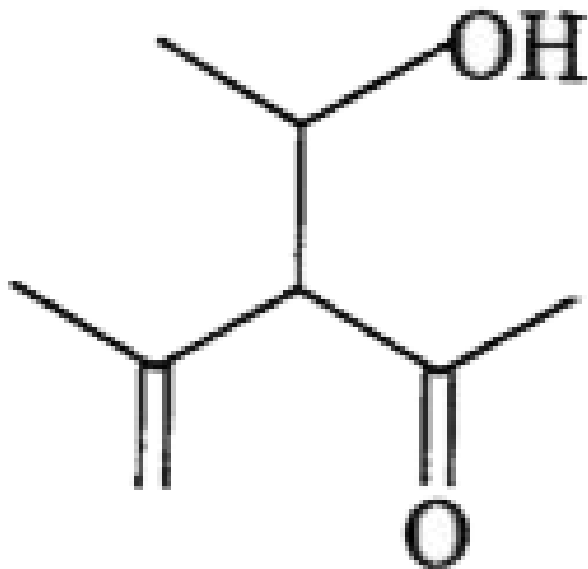


- A. 1,1-Diformylpropanal
- B. 3-Formylbutanedial
- C. 2-Formylbutanedial
- D. 1,1,2-Ethanetricarbaldehyde

**Answer:**

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26. The correct IUPAC name of the compound



is

- A. 3-(1-Methylenyl)-4-hydroxypentan-2-one
- B. 3-( 1-Hydroxyethyl)-4-methylpent-4-en-2-one
- C. 3-( 1-Hydroxymethyl)-4-methylenepentan-2-one
- D. 3-(1-Oxoethyl)-4-methylpent-4-en-2-ol

Answer:

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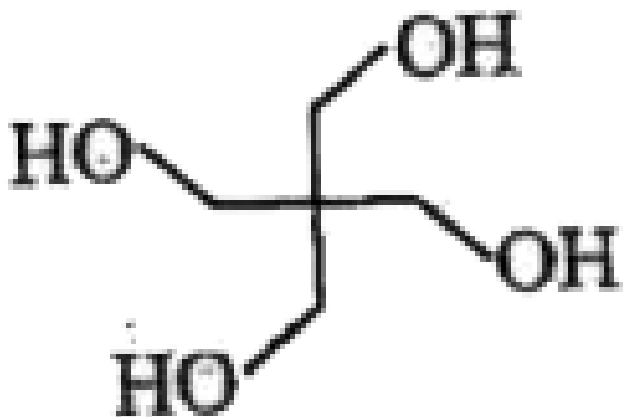
27.  $CH_3 - \underset{\underset{OCH_3}{|}}{C}H - \overset{\overset{O}{||}}{C} - \underset{\underset{CH_3}{|}}{C}H - OCH_2CH_3$ . The IUPAC name of this compound is

- A. 2-ethoxy-4-methoxy pentan-3-one
- B. 2-methoxy-4-ethoxy-pentan-3-one
- C. 2-ethoxy-4-methoxy pentan-3-one
- D. None of these

Answer:

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28. What is/are the correct name/s of



A. 2,2-Dihydroxymethylpropane 1,3-diol

B. Pentaerythritol

C. Tetrahydroxynepentane

D. Tetrahydroxymethylmetane

**Answer:**

 [Watch Video Solution](#)

29. The IUPAC name of  $CH_3CH_2 - \underset{\substack{| \\ CH_3}}{N} - CH_2CH_3$  is

- A. N-methyl-N-ethylethyl amine
- B. Diethyl methyl amine
- C. N-ethyl-N-methyl ethan amine
- D. Methyl diethyl amine

**Answer:**

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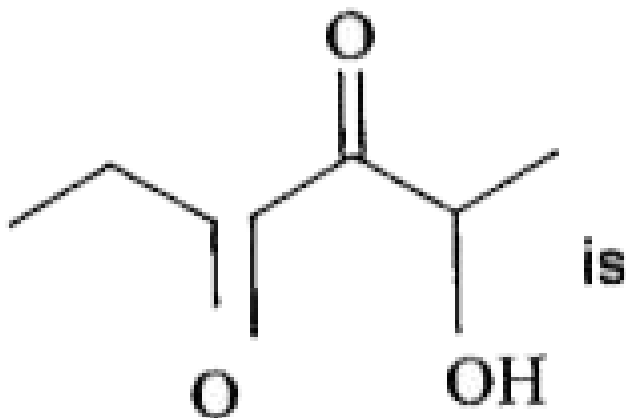
30. The IUPAC name of  $CH_3 - NH - \underset{\substack{| \\ CH_3}}{CH} - CH_2 - \underset{\substack{| \\ CH_3}}{CH} - CH_3$  is:

- A. 2-(N-methyl amino)-4-methyl pentane
- B. N,4-dimethyl pentan-2-amine
- C. 2-(N-methyl amino)-3-isopropyl propane
- D. 2-(N-methyl amino)-1,4,4-trimethyl butane

Answer:

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31. The IUPAC name of



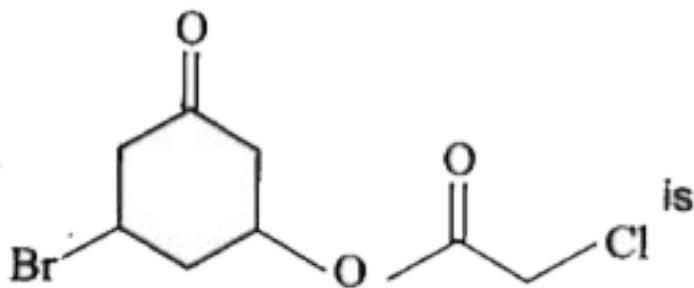
is

- A. 5-hydroxy-3, 4-hexanedione
- B. 3,4-dioxo-2-hexanol
- C. 2-hydroxy-3,4-hexanedione
- D. 2-hydroxy-3,4-diketohexane

Answer:

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32. IUPAC name of



is

- A. 3'-Bromo-5'-oxocyclohexyl-1-chloro-ethanoate
- B. 3'-Bromo-5'-oxocyclohexyl-2-chloro-ethanoate
- C. 5'-Bromo-3'-oxocyclohexyl-1-chloro-ethanoate
- D. 5'-Bromo-3'-oxocyclohexyl-2-chloro-ethanoate

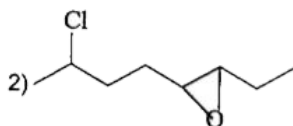
Answer:

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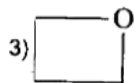
33. Which is incorrectly matched?



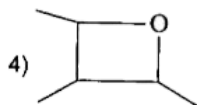
3,4-epoxyheptane



2-chloro-5,6-epoxyoctane



1,3-epoxy propane

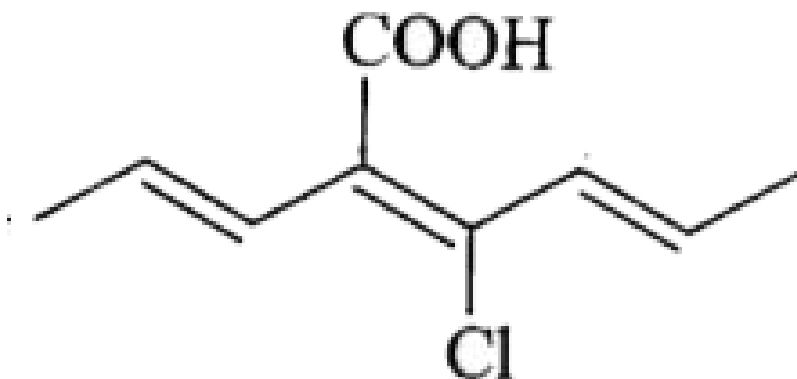


1,2,3-trimethyl-1,3-epoxy propane

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34. Give IUPAC name of

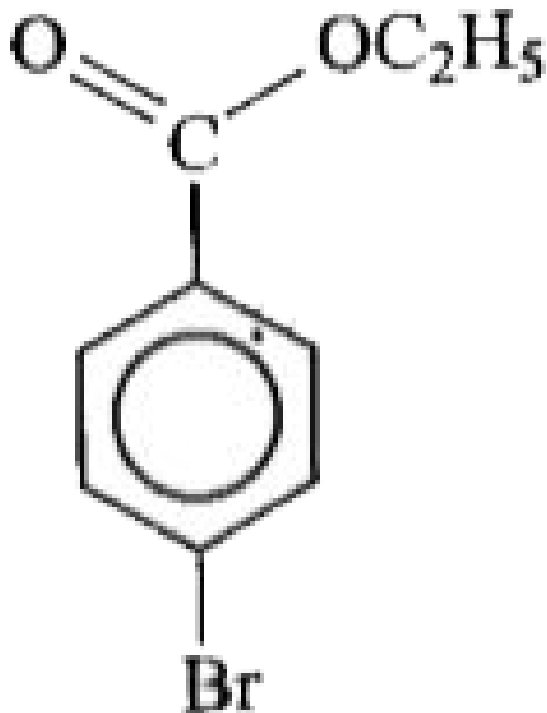


- A. 4-chloro-2-{1-propenyl}-2,4-hexadienoic acid
- B. 3-chloro-2,3-di{1-propenyl}propanoic acid
- C. 4-carboxy-5-chloroocta-2,4,6-triene
- D. 3-chloro-2-(1-propenyl) hexa-2,4-dienoic acid

Answer:

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35. Give IUPAC name of the following :



- A. Ethyl-1-bromo 4-benzoate
- B. Ethyl-4-bromobenzenecarboxylate
- C. Brome benzoate
- D. Brome benzene ester

**Answer:**



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**36.** A compound having straight chain of five carbon atoms, it has one ketone group and two methyl group on different-different carbon atoms. The IUPAC name of the compound is :

- A. 2,4-Dimethyl-3-oxopentane
- B. 2,4-Dimethylpentan-3-one
- C. 3,4-Dimethyl-2-oxopentane
- D. 3,4-Dimethylpentan-2-one

**Answer:**



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37. Assertion : IUPAC name of  $NC - CH_2COOH$  is 2-cyanoethanoic acid

Reason :  $-CN$  group has higher priority than  $-COOH$  group in the nomenclature

- A. If both Assertion & Reason are true and the reason is the correct explanation of the Assertion
- B. If both assertion and reason are true but the reason is not the correct explanation of the Assertion
- C. If Assertion is true statement but Reason is false
- D. If both Assertion and Reason are false statements

**Answer:**



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**38.** Assertion : Acrolein has IUPAC name acrolein

Reason : Both have the structure  $CH_2 = CH - CH_2 - CHO$

- A. If both Assertion & Reason are true and the reason is the correct explanation of the Assertion
- B. If both assertion and reason are true but the reason is not the correct explanation of the Assertion
- C. If Assertion is true statement but Reason is false
- D. If both Assertion and Reason are false statements

**Answer:**

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**39.** Assertion : Choline having the structure  $NH_2 - CH_2CH_2OH$  is name as 2-amino ethanol, while choline

$\left[ (CH_3)_3N^+CH_2CH_2OH \right] OH^-$  is named as 2-hydroxyethyl trimethyl

ammonium hydroxide.

Reason : In the first compound -OH group has more priority than  $-NH_2$ , while second compound is the derivative of  $NH_4OH$

- A. If both Assertion & Reason are true and the reason is the correct explanation of the Assertion
- B. If both assertion and reason are true but the reason is not the correct explanation of the Assertion
- C. If Assertion is true statement but Reason is false
- D. If both Assertion and Reason are false statements

**Answer:**

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**40.** Assertion : Barbitone commonly used hypnotic and sedative contain at least,one carbon having  $sp^3$  hybridisation.

Reason : Barbitone is 5, 5-diethylbarbituric acid : If both Assertion &

Reason are true and the reason is the correct explanation of the Assertion, If both assertion and reason are true but the reason is not the correct explanation of the Assertion, If Assertion is true statement but Reason is false, If both Assertion and Reason are false statements

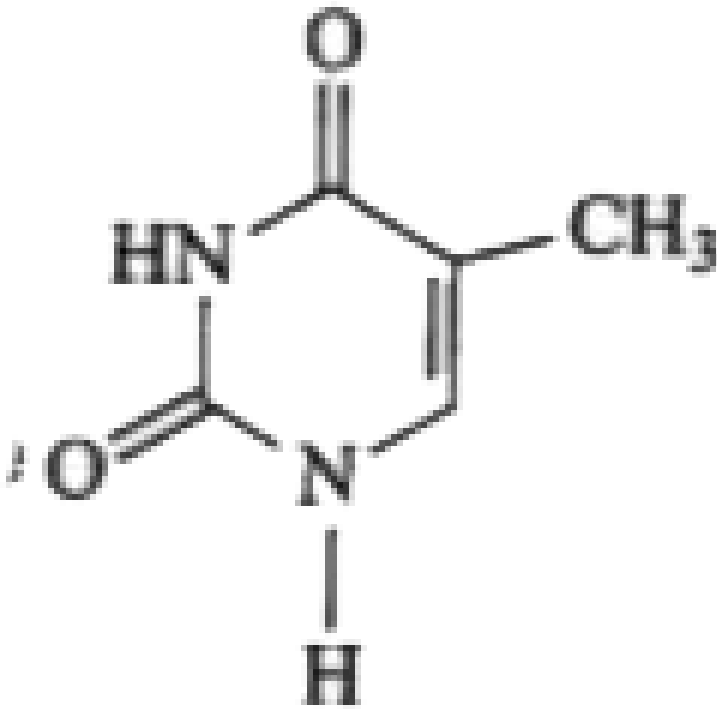
- A. If both Assertion & Reason are true and the reason is the correct explanation of the Assertion
- B. If both assertion and reason are true but the reason is not the correct explanation of the Assertion
- C. If Assertion is true statement but Reason is false
- D. If both Assertion and Reason are false statements

**Answer:**



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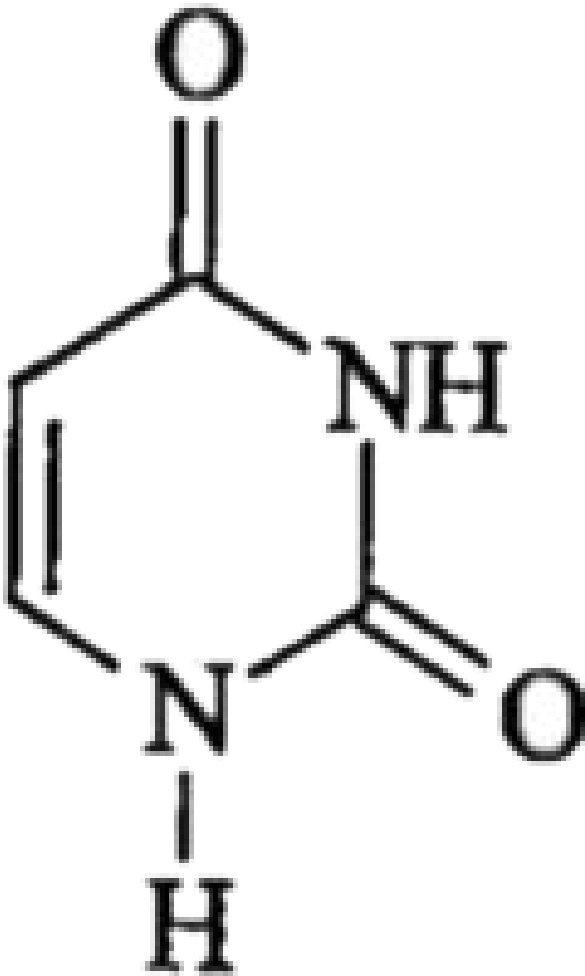
41. Assertion : According to IUPAC system the base thymine



can be named as 3-methyluracil or pyrimidine-2, 4-(1 H, 3 methyl) dione.

Reason : Heterocyclic ring





is named as uracil or pyrimidine-(2, 4)- (1H, 3H) dione.

- A. If both Assertion & Reason are true and the reason is the correct explanation of the Assertion
- B. If both assertion and reason are true but the reason is not the correct explanation of the Assertion
- C. If Assertion is true statement but Reason is false
- D. If both Assertion and Reason are false statements

**Answer:**

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